**K.L.E. SOCIETY'S**

# RAJA LAKHAMAGOUDA SCIENCE INSTITUTE (AUTONOMOUS), BELAGAVI.

## Self Study Report
**Accreditation-Third Cycle**

**Submitted to**
**National Assessment and Accreditation Council**
## Bengaluru – 560 072

**MARCH – 2015**

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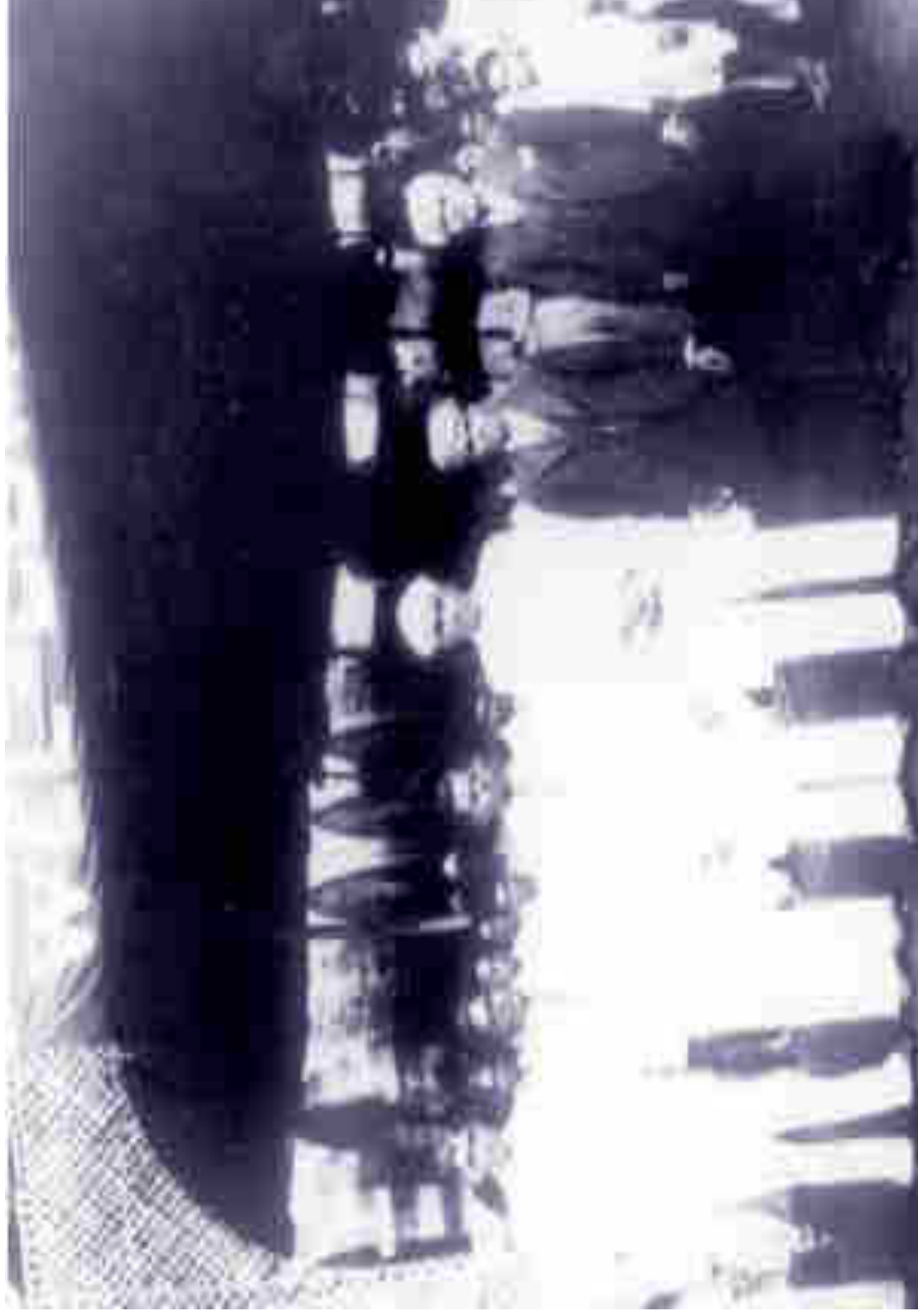**National Assessment and Accreditation Council**
## Bengaluru – 560 072

# MARCH – 2015

*OUR PATRON*



*RAJA LAKHAMAGOUDA BASAVAPRABHU SARDESAI OF WANTAMURI*
C.I.E., BAR-AT-LAW,E.

INAUGURATION OF DEGREE COURSE, IN 1944 BY SIR C.V. RAMAN, NOBEL LAUREATE



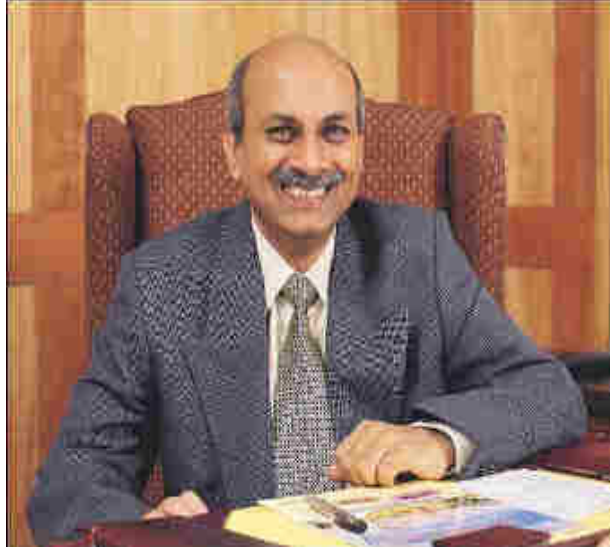Standing from left to right Prof. B.S. Sheshgiri, Prof. Ramlingayya, Prof. Paramshivayya Sir C.V. Raman, Prof. M.R. Sakhare, Prof. S.G. Nandimath

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# KARNATAK LINGAYAT EDUCATION SOCIETY:

## *A PERSPECTIVE*



**Dr. Prabhakar Kore, M.P.**
Chairman, Board of Management,
K.L.E. Society, Belagavi.

**K**arnatak Lingayat Education Society emphasizes on the proper education for the enlightenment of the mind and the spiritual and material regeneration of the mankind. This realization was practised by the pioneers of the erstwhile K.L.E. Society, way back in 1916, because the pre-independent North Karnataka was educationally, socially and economically a backward region. The society has been and will be quenching the thirst of the seekers of knowledge.

"The Saptarshis"- (Seven Saints) a band of seven self-less, dedicated and inspiring young graduates had determined to establish an educational institution. They had set before them as beacon lights the ideals of **Truth, Love, Service and Self-Sacrifice**. With poignant desires, fertile imagination and a mission to fulfill, the founder life-members started on the 13$^{th}$ day of

November 1916 an Anglo Vernacular School in a rented building in the fort area of Belagavi, which heralded the beginning of the Karnatak Lingayat Education Society.

Over the years, the institutions from Kindergarten to Post-Graduation found their place in the educational map of the K.L.E. Society. At present, this educational empire is running the institutions in all the spheres of human knowledge: such as, Humanities, Physical Science, Medical Science, Agricultural Science, Engineering and Technology, etc. The society has entered into collaboration with as many as **fourteen** foreign Universities.

Taking health care services to door steps of poor, needy and downtrodden people through **2420 beds**, K.L.E.s Dr. Prabhakar Kore Hospital and Medical Research Centre, Belagavi, has been identified by the survey conducted by India's Express Health Care magazine confirms the ranking of the hospital, as one of the best hospitals in South India.

Initiating a number of new academic programmes through its constituent colleges, K.L.E. University under its Chancellor Dr. Prabhakar Kore is now focusing on Biomedical research by receiving research grants from the National Institutes of Health, U.S.A. and the World Health Organization.

In the course of 99 years, since its inception, the society has established **246** institutions. It has employed **16000** personnel and about **110262** students are studying in its institutions. Because of the outstanding contributions made by K.L.E. Society in the field of education under the Chairmanship of Dr. Prabhakar Kore $_{M.P.}$ Karnatak University, Dharwad, honoured him with a Doctorate Degree; similarly, the Government of Karnataka has awarded him 'Karnatak Rajyotsav Prashasti'. Dr. Prabhakar Kore $_{M.P.}$ 'Arya Bhat' awardee is also the Chairman of the Task Force of Belagavi District.

The K.L.E. Society is never complacent with its present achievements. In these days of globalization, the society has geared up to go global.

# RAJA LAKHAMAGOUDA SCIENCE INSTITUTE (AUTONOMOUS), BELAGAVI.

## *Our College at a glance ......*

K.L.E. Society's Raja Lakhamagouda Science Institute was established in 1935 that signified the renaissance of the mind to the seekers of knowledge, in the pre-independent North Karnataka. Initially, the Science course was introduced in Lingaraj Arts College. It was progressing by leaps and bounds; and subsequently in 1941, it was named as Raja Lakhamagouda Science Institute after the name of the munificent Sardar Raja Lakhamagouda Basavaprabhu Sardesai of Wantamuri, who had generously helped the institute. Sir C. V. Raman, the Nobel Laureate inaugurated the degree course in science in 1944. Further, in 1958 the science wing was bifurcated from Lingaraj College as a full-fledged science institute.

R.L.S. Institute is a premier science college in a perfect ambience and with sufficient infrastructure for imparting science education. It had the honour of imparting instructions at Post-Graduate level in Mathematics, Chemistry and Physics from 1948 to 1957.

During the academic year 2009-10, our college was re-accredited by the National Assessment and Accreditation Council, Bengaluru, at 'A' grade with CGPA of 3.25. On the recommendation of Karnatak University, Dharwad, the Government of Karnataka granted permission to our college to start Post-Graduation courses in Physics and Mathematics from the academic year 2010-11. Accordingly, this facilitates the students from this part of North Karnataka to carry out Post Graduation in Physics and Mathematics.

Our Institution is conferred with Autonomous status in the academic year 2012-2013 by the UGC. It is approved by the Principal Secretary, Higher Education Government of Karnataka, Bengaluru. It is also approved by Rani Channamma University, Belagavi, our parent University.The All India Council for Technical Education (A.I.C.T.E) granted permission to our college to start MCA Course from the academic year 2012-13.

We have introduced two new subject combinations: **Mathematics, Electronics & Computer Science and Mathematics, Economics & Statistics** from the academic year 2013-2014. There are **twenty-two Certificate courses**.

The institute had the privilege of receiving a number of distinguished personalities including Jnanapeetha Award-winners, Scientists, Educationists, Vice-Chancellors etc.

Our college has been given the status of 'Lead College' by the Commisionerate, Collegiate Education, Bengaluru, in the Total Quality Management and Human Resource Development Programmes for improving the quality of education in the colleges coming under Belagavi District. To carry out our activities in these transformative and competitive days, we have adopted a slogan, "Adapt and Excel". True to our slogan, we have been adjusting our activities with the changing situation and trying to excel in curricular and extra-curricular activities.

## VISION
To impart Education for Global Excellence

## MISSION
Character building through quality science education

To bring about progressive quality reforms in pursuit of excellence

To address the academic needs of the student community through wide variety of courses

To make students intellectually competent to face the competitive world of employment

To contribute to the popularization of science education and education in values

To contribute to the self-development of the students and through it to the community and national development

## GOALS & OBJECTIVES
To provide quality science education to support technology

To equip and empower students with relevant knowledge, competence and inventiveness to face global challenges

To achieve innovations in teaching, learning, research and extension activities to realize national goals

To excel in higher education

Empowerment through knowledge and advance learning

To create awareness on human rights, patriotism, value system, culture, heritage, scientific temper and environment

To create healthy atmosphere for the advancement of culture and also all-round personality of the youth

# RAJA LAKHAMAGOUDA SCIENCE INSTITUTE (AUTONOMOUS)

## BELGAUM-590001.

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ರಾಜಾ ಲಖಮಗೌಡ ವಿಜ್ಞಾನ ಮಹಾವಿದ್ಯಾಲಯ (ಸ್ವಾಯತ್ತ), ಬೆಳಗಾವಿ-೫೯೦೦೦೧.

**Accredited with 'A' Grade by NAAC**

Ref. No. : _____

Date : ____09-03-2015___

To
The Director
National Assessment and Accreditation Council
P.O. Box No.1075, Nagarbhavi,
BENGALURU – 560072

Sub: Submitting the Self Study Report (SSR) for Third Cycle of Accreditation.

Sir,

We are glad to bring to your kind notice that we have already submitted the Online Letter of Intent (LOI) for third cycle of Accreditation on **27-09-2014** (Track ID: **KACOGN11290**). We have uploaded the Self Study Report in our college website www.rlscinstitute.org., on 09-03-2015 this is for your kind consideration.

Thanking you.

Yours faithfully

Principal
R.L.Sc. Institute (Autonomous),
Belagavi.

Phone : (O)0831-2420435, (R) 2454251, Fax No. : 0831-2420473, E-mail : rlsi_bgm@rediffmail.com, Website : www.rlscinstitute.org

Our Slogan : Adapt and Excel

# EXECUTIVE SUMMARY

**Criterion – I Curricular Aspects**

Autonomous system was introduced in the academic year 2012-2013. As autonomy provides space for innovations and independent designing of curriculum, the college made a move to avail these benefits.

Under the broad spectrum of our Vision, Mission and Goals, the curriculum of UG and PG studies is designed, developed, regularly modified and updated to meet the students' needs for holistic development. The curriculum being in tune with the Vision reflects the global and national developmental needs, issues prevailing in the society at large and fulfills the requirements of the stakeholders to meet their challenges.

In the framework of autonomous system, each department has its own Board of Studies, which includes subject experts from University, different colleges, Alumni and the faculty of respective department.

The MoUs signed with the industries and health science and technical institutions help in developing the need based curriculum. Interface between the institution and industry, research bodies as well as civil society is organized. The observations and suggestions of the experts from these fields are incorporated into the curriculum design. Through interactions with experts in the field of social work, new topics have been introduced in the curriculum.

Employability and entrepreneurship are the major considerations in the design and development of the curriculum. The curricula of the major programmes takes care of the knowledge base along with certain skills. The institute has also introduced **twenty-two Certificate Courses** for the advantage of the students to cultivate and develop a specific skill which enhances the competence of the students and render them employable. In addition to this project works are incorporated in the curriculum which helps the students to be innovative and research oriented.

At the UG level **eight subject combinations** and **twenty-two certificate** courses provide academic flexibility. The institution follows Semester system. The **Choice Based Credit System** and **Open Elective System** provide academic flexibility to PG students.

There is a well-designed modern central computing laboratory with advanced audio-visual multimedia, computers with internet connections for students, so that the students are well integrated with ICT, which equip them to compete in the global employment market.

Our curriculum has enough avenues to plan projects and extension activities that instill in the young minds a sense of responsibility.

**"Student as a Teacher",** as one of the best practices has now become a part of curriculum. A student learning in PG course, teaches the students studying in UG course. This practice triggers the confidence of student to face the class.

The feedback from the stakeholders makes curriculum more relevant to the globalised society. The teachers ignite the minds of the students by systematically imparting the knowledge so that students who step out from the portals of the institution would have all-round development of their personality.

**Criterion-II: Teaching-Learning and Evaluation**

Realizing the importance of institutional accountability in the Teaching-Learning and Evaluation process the institution implements the inbuilt mechanisms in achieving excellence. The students who take admission in our college belong to heterogeneous social, educational and economical backgrounds.

Teaching faculty is made aware of continuous upgradation of knowledge to enhance their professional competency. In the beginning of every semester teaching schedule is prepared and meticulously followed. The faculty of the institution uses ICT facility in teaching- learning process. All the departments have internet facility on campus, which enables them to access e-resources for the teaching- learning processes. They are engaged in Major and Minor Research Projects financed by UGC. The recruitments are made according to the requirements as per the UGC/Government norms by maintaining diversity. Faculty is encouraged to participate and organize International/National/State conferences, seminars and workshops. Faculty development programmes are also conducted to enhance the teaching skills. As a part of faculty exchange programme, teachers participate as resource persons. The feedback on teachers from students is taken regularly which helps them to enhance their proficiency.

Student centric learning in the classroom is encouraged through brainstorming, activity based, experimental, participative, problem solving, cloud computing, etc., for learning methods .The freshers feel at home in the college as they are acquainted in the **orientation/induction program** regarding available infrastructure and ample opportunities in the campus to shape their personality. The students are encouraged to use ICT facilities. A **bridge course** in all the subjects facilitates the students to cope up with new syllabi. Institution felicitates faculty and the students for their innovative and creative contributions during K.L.E. Society's Founders Day Celebration.

Academic achievers are also honored with endowment prizes during celebration of Gymkhana Day.

The institution practices the **mentor system** which helps the students to overcome their inhibitions and gives confidence to develop academically. **Remedial classes** for slow learners and **enrichment classes** for advance learners are regularly conducted.

Autonomous status granted by UGC to our college is a boon. The college also gets academic and operative freedom to frame need based and more relevant syllabi leading to excellence in higher education.

The library of the college is updated with latest editions of books, journals and e-resources. Laboratories with advanced equipments to support and enhance the learning resources. In addition to the Central library, all the departments have Departmental library. The departments also arrange study tours/group discussions/seminars and assign project work, which motivates the students for effective learning process. Our faculty has participated in **323** International/National/State level conferences/ seminars/workshops.

The interaction between teaching faculty and the students is informal that helps for the motivation and involvement of the students. It also helps to arrange student-centric academic activities for the enhancement of the knowledge.

Timely declaration of the results, regular reforms, transperancy and use of **MIS** in the examination process has made an impact on the examination system. Learning outcomes are well defined. Students' performance is analyzed by the mentors to guide them to achieve the stated attributions. **Fourteen** University ranks indicate the efficient learning outcome of the college.

**Criterion-III Research, Consultancy and Extension**
The Institution has an immaculate record of research work. It strongly believes that an institution can become the centre of academic excellence only when a research culture exists and proliferates among the faculty and students. Our college has a **research cell** which along with the IQAC encourages the staff and students to take up interdisciplinary and interdepartmental research activities. The research cell acts as a facilitator for the faculty research providing the details of funding agencies in different research areas. It is inspiring to note that **fifteen** UGC funded Minor Research Projects and one Major Research Project to the tune of ₹**25,50,284/-** have been completed and **seven** Minor Research Projects are ongoing amounting to ₹**8,75,000/-.** About **660 projects** by the students are to the credit of our institution. **Five** faculty members are actively engaged in extending M. Phil. / Ph.D. research guidance

to **twenty-three students**. Residential facilities for research scholars/visiting scientists is provided. One of our faculties has attended and presented a paper at **International Conference held at Bangkok** in the persuit of Higher Education. Total **Ninty one** papers are presented of which **Fifty-two** papers by the faculty and **thirty-nine** by the students. **Fifty-seven** research papers are published in National / International peer reviewed journals. Our faculty and students have published **five** books. **Four** faculty members are serving on editorial board; **twelve** are Life members of state, national and international organizations. **Three** members are serving as experts on National Interview Boards. **Five** members are serving as papers reviewers for National/International journals.

Our college has organized **eleven** national conferences/seminars/IT fests. College also has **twenty four** workshops to its credit. Eminent International and National scientists, scholars, environmentalists, socialists and IT experts shared the dais. Their presence added an International dimension to the research activity. Our college provides well-equipped laboratory with research instruments, well-equipped library with large number of research journals, back volumes and computer facility. The seed money is provided to carry out the research activities for faculty and students, which has amounted to ₹**1,76,335/-**. VGST sanctioned a grant of ₹**30,000/-** under K-FIST scheme to carry out the research project. Achievers in the field of research are felicitated during K.L.E. Founder's Day.

The faculty members of the institution are extending **fourteen** different honorary consultancy services to the community. The college Placement cell trains the students for their employability and arranges for recruitment after coordinating with the industries and reputed companies. Extension activities make the students aware of their commitment towards institutional and social responsibilities.

The college promotes the campus cleanliness drive and awareness of extention activities among students. So far **145 extension activities** have been conducted such as: adoption of the village, medical camps, rallies are arranged on AIDS awareness, anticorruption, prevention of environmental pollution, blood donation camps, bad effect of tobacco, voting awareness, Non-violence, Swacch Bharat Abhiyan, Virus free India, RLSI Nidhi etc. Our NSS volunteers are actively participating in community oriented development programmes. Women Development programmes such as awareness on legal rights, health and hygiene are regularly organized, besides the academic and extra-curricular activities and these support to envisage the quality of lady students. Our college received **"IAB Blind Empowerment Champions Trophy 2014"** from Indian Association for Blind, Madurai, Tamilnadu, a regular voluntary contribution for the empowerment of visual challengers. Our

students regularly impart basic knowledge in English and Mathematics to the orphans. Prominent alumni are in the field of social activities/movements.

**Nine** Collaborations with research organizations / industries / agencies provide opportunities for quality learning through interdisciplinary research activities and create better prospects for career options. The college has collaborated with research centers such as K. L. E University and Regional Medical Research Center, Belagavi to enable staff and students for their research activities. All the departments visit industries and research centers like BARC Mumbai; Nuclear Power station at Kaiga; NCL Pune; Food Industry, Belagavi ; Government Biocentre, Belagavi; The Belgaum Oxygen gas Pvt. Ltd, Kakati; Science Centre, Belagavi etc. to enhance the research knowledge.

## Criterion-IV INFRASTRUCTURE AND LEARNING RESOURCES

Physical facilities play a vital role and provide a wide range of services in effective transfer of knowledge and creativity.

Our Institute is situated in the heart of the city with sprawling lush green campus of 25 acres and is enriched with excellent infrastructural facilities, which includes adequate class rooms, laboratories, staff rooms, examination section, hostels, health care center, library, banks, post office, students' consumer society, staff co-operative society, gardens, canteen, 250 KVA power back up, gymkhana with indoor games facility, gymnasium, auditorium, an **Olympic standard swimming pool** and **play ground with Cinder track** along with common facilities like purified drinking water, ladies rest room, vehicle parking, ramps for differently abled students and faculty. Infrastructural facilities are optimally utilized by various sister institutes and the public.

The college has 29 lecture halls, including two gallery halls. There are 22 laboratories and 18 HoD/staff rooms. Every department has well ventilated and furnished staff room with computers, internet connection, Wi-Fi facility and intercom facility. **Biometric** system is installed. Laboratories are upgraded with advanced equipments. The college has 182 computers, fifteen printers, three scanners and four photocopying machines.

For the benefit of staff and students, the institution has necessary ICT facilities which supports and facilitates the teaching-learning and evaluation, research and administrative functions of the college. Institution provides high-speed network with a regular data backup and recovery techniques along with softwares and updates in refined servers for better performance and flexibility.

Our library is automized with standard softwares like OPAC and Delnet. About 2500 members visit the Central library in a month. Every year

there is an enhancement in the learning resources. There are 9130-Textbooks, 29,342-Reference Books, 725-e-Journals, 43-Journals, 69-Magazines, 77-CDs, 38,472-books/ back volumes/ theses in the library. Other facilities are free internet access, downloading, printing are made available to the students and other users. The library also has physical facilities such as reading room and reprography. The library advisory committee collects the feedback from the users and as per their suggestions incorporates the same and monitors the effective functioning of the library.

There are adequate sports facilities in the college with multipurpose ground for cricket/ hockey/foot-ball, volleyball court/throw-ball court, basketball court with 400 meters athletic **cinder track with flood light facility**. The college also has an indoor stadium along with **multigym** facility and **wooden floored Badminton Court**. There is an **Olympic standard swimming pool** of 50m x 21m x 1.8m dimension with changing rooms and spectator's gallery, the addition to the existing infrastructure. College encourages cultural, sports and extracurricular activities by providing adequate infrastructural facilities conducting various competitions and by sending them for various competitions.

Health related services are provided with the support from K.L.E Society's multi-speciality Dr. Prabhakar Kore Hospital and Research Centre, Belagavi.

Engineering section of K.L.E Society looks after the major repair works of the assets and the services of the institution, where as minor repairs and maintenance of the equipments are taken care by employing temporary staff. Each building on the campus, including classrooms, seminar halls, playgrounds, laboratories etc., are cleaned and maintained regularly by the support staff.

**Criterion-V Student Support and Progression**

Compassionate campus for joyful learning, caring management and faculty are striving to infuse self-esteem and confidence in the students as visualized in the mission of the institute. With the introduction of autonomous system, the institute has developed very effective student support and mentoring system in the form of network of organizational units and committees comprising Management, Academicians, Principal,Controller of Examination, Vice Presidents of Gymkhana and Students Activities, Mentors, IQAC, HoDs, Conveners of various committees, Hostel wardens, Parents and Alumni. Placement cell, NCC, NSS and Women Empowerment Cell are the support services for the holistic development of the students.

Updated informations in the prospectus/ handbook every year makes the students aware of academic programmes, administration, available

courses, eligibility criteria, prescribed fees, hostel facilities, scholarships, sports facilities, co-curricular infra-structure and an academic calendar. Students and parents can also seek information through college website.

The personality development, communication skill, soft skills, Spoken English course, entrepreneurship programmes, computer training, career guidance, workshops on advanced computer programmes, developmental schemes and  coaching classes for competitive examinations like NET/SLET and SSB are conducted regularly to increase the learning attitude.

The institution has the anti-ragging committee, SC/ST/OBC Cell to monitor and support the students. Women Empowerment Cell looks after the issues of women.

**Mentor system** ensures the overall progress of students. Every member of the staff serves as mentor for a group of 25 students and gives individual attention to the welfare of the students. Attendance and test marks are reported to the parents through SMS. Arrangements are made for need based remedial coaching and counseling. Mentors pay attention for better academic performances. This is visualized by securing **fourteen ranks** to the University in this accreditation cycle. Average result of B.Sc. 85.5%. B.C.A. 93% and PG-85% states the curricular achievement of students.  Progression of the students from UG to PG is 43.6%.  As many as **276** students have been placed in various reputed companies and other institutions.

Students with socially and economically disadvantaged sections of the society are equally paid attention on par with advantaged sections of the society. The institute ensures that the students avail the benefits of scholarships and fee concession from the Government. The institute has unique system-**RLSI Nidhi,** wherein the faculty voluntary contribute for financial assistance to meritorious and needy students.  This is one of the kind gestures towards the welfare of the students.

Health insurance and medical facilities at KLE's Dr. Prabhakar Kore Hospital and Research Centre Belagavi are provided to the students. Apart from this, Students Safety Insurance Scheme also exists.

Achievement in co-curricular activities is noteworthy; one project funded by VGST. Bengaluru is completed with publication of paper in an International Journal.  **Thirty-nine** students have presented papers in National /State level Seminars / Conferences and many have won cash prizes. Our students have won prizes in quiz conducted by VGST Bengaluru, IIT, Bombay and Doordarshan, Bengaluru. Our students have published book and published articles in daily newspapers.

Students' achievements in extra-curricular activities have brought laurels to the college; **forty-two** students of our college represented University in inter-university sports competitions. Our students excelled in sports and cultural activities by taking part in **national level** competitions. **Bronze medal** in Cyclothon (All India Inter University cycling competition) and consolation prize in Bharatnatyam. **Eight NCC cadets** attended the **Republic Day Parade** in New Delhi and **one cadet received three Gold medals and one Silver medal.** One NSS volunteer attended the State Republic Day Parade in Bengaluru.

Formal and informal feedback mechanisms from all the stakeholders and effective grievance redressal system have been developed to make support services more effective. Students' involvement in academic and administrative bodies like IQAC, gymkhana committee, 'Students Activities' committee, editorial boards of the college magazine, library advisory committee etc. is ensured effectively.

In a nutshell, we can emphatically state that our college organizational units, different committees and the support services ensure the holistic development of the students. The practices like mentoring of the students, remedial and enrichment classes, students' representation in administrative bodies, meticulous conduct of curricular, co-curricular and extra-curricular activities with an academic boost by Autonomous system in our day today functioning have enhanced our contributions in the field of education.

**Criterion-VI Governance, Leadership and Management**
The policy of the institution is to promote higher education that is compatible with the goals set by our founders and also the vision and mission of the institute and is subsequently re-interpreted to meet recent trends and changes in higher education. This is brought into practice by decentralizing and forming various statutory bodies that include IQAC, Autonomous Governing Body, Local governing Body, Academic Council, Finance Committee and BoS. Our institution provides an opportunity to the stakeholders for vertical as well as horizontal mobility.

The institution has an action plan for its future development, organizational structure for all activities which is achieved through quality policies and by taking feedback from all the stakeholders. Management is supportive for infrastructural development and departmental activities of the institution. Leadership is groomed at various levels by assigning the staff and students various responsibilities that facilitate the development of leadership skills.

The college has a perspective plan of the future for the better functioning of different aspects such as teaching-learning, research

development, community engagement, human resource planning and development of infrastructure.

The institution has an effective welfare mechanism such as Health facility, fee concession to their wards, loan facility from staff co-operative society, accommodation facility, etc., and also conducts programmes to enhance the competency of its faculty and non-teaching staff. To evaluate and improve the faculty profile, teacher appraisal is taken regularly.

The institution makes timely recruitments and promotions of aided and self financed streams according to the requirements adhering to the Government Norms.

Financial support is given to the faculty for attending seminars/conferences/research programmes to upgrade their knowledge and skills.

The college has a strong financial management system with a proper budget planning in process. The income and expenditure of the institution are subjected to regular internal and external Government auditing.

The Internal Quality Assurance Cell continuously reviews its teaching –learning structure, methodologies and overall development of the institution. Autonomy is rendered to all the departments regarding academic developments like designing the syllabus, to introduce the Certificate courses, purchase of equipments and other teaching aids. The college follows **biometric attendance system** for staff.

## Criterion-VII Innovations and Best Practices

The liberalization and globalization of economy have brought new opportunities and challenges in all areas of human endeavor including education. As in other sectors, educational institutions have to adopt new strategies to make the best use of the opportunities and counter the challenges. Quality has always been a concern for individuals as well as institutions but it has acquired new significance in the recent past. Organizations treat quality as an important component of their strategy to remain competitive.

Extension programs and innovative practices have now become integral part of higher education. The college aspires to focus on overall development of students to achieve academic excellence.

**Environment consciousness**

The college is situated in the heart of the city. It has a lush-green flora. Environment consciousness is a management policy to maintain the pristine purity and beauty of the college to provide a congenial atmosphere for the academic and non-academic pursuits. Environment day is celebrated every year on 5th June, which develops eco-concerned awareness among the staff and students. To create environmental awareness a National Seminar on "**Climate Change and Its Impact on Biodiversity**" was conducted. **Green Audit** is conducted every year. Green audit covers aspects like testing the ambient quality of air, cost effective use of electricity, developing awareness regarding water conservation, proper management of **e-waste** etc. The college has followed **3-R rule** (**Reduce, Recycle and Re-use**) for eco-friendly awareness. To study the carbon neutrality ambient quality of college campus air is checked every year by the help of Karnataka Pollution Control Board. Awareness regarding the minimal consumption of energy is developed among staff and students. We have **207 different varieties of plants** in our campus which are **scientifically listed**. Every year Vanamahotsava is celebrated to create awareness about conservation of Biodiversity. **Solar heaters** are installed as a source of renewable energy. **Hazardous wastes** like radioactive substances are placed in lead castle and separate soak pits are provided to discharge wastewater. Degradable and non-degradable waste is collected and sent for recycling.

**Innovations**

Definite goals are set in line with vision and mission statements of the institution. Benchmarking of syllabus is made in tune with that of leading national institutions, which narrow the gaps by taking appropriate corrective measures in time. The curriculum is redesigned identifying the needs of the society, industries and students. Certificate courses are introduced.

More emphasis is given to ICT based teaching and learning by installing smart boards in the class rooms. Paperless assignments are given to students through web technique. NET/SLET coaching is provided. Collaborative learning is emphasized. Minor Research Projects are under taken by staff. Students are encouraged to undertake projects funded by VGST. Seed money is given to the students' projects.

**"My Hall-My Bench"** seating arrangement during examination, '**Gate' system** to check the entry to the higher classes and **Double Evaluation** in Semester End Examination are introduced. Books in Library and Answers scripts in Examination section are bar-coded. CCTV cameras are fixed in certain places. **Wi-Fi** system is also provided. Biometric system for the staff is under practice.

Attendance and notifications are given to the parents through SMS. Students records are computerized.

**Best practices**

The best practices are:

- "RLSI Nidhi" – Financial help to needy and meritorious students by the faculty
- **"Help the Helpless"-**To bring up abject children in the main stream of society -A generous help by students as symbol of love and peace in the true spirit of mankind

## SWOC Analysis

**Strength:**

- Adequate infrastructure and supportive management.
- Excellent results with regular ranks to the University
- Autonomous status and Certificate courses
- NET/SLET Coaching
- International standard swimming pool
- Disciplined and cultured students

**Weakness:**

- Lack of Major Research Projects
- Less awareness about the competitive examinations among the students
- Inadequate participation of students in National level sports
- Lack of entrepreneural quality among the students

**Opportunities:**

- Opportunity to carry out the research activity
- To enhance the career opportunities and entreprunership
- Opportunities for Higher education and NET/SLET coaching
- Rare opportunity to the students to join NCC Air wing Unit in our college
- To improve the student communication skills to meet the requirements of corporate houses and industries
- To attend and present the papers in National /International Seminars /Conferences

**Challenges:**

- Publication of papers in high impact factor journals
- To make students as entrepreneurs
- To attract more number of meritorious students
- To motivate students to carry out research activities in national and international institutions

**SECTION B: PREPARATION OF SELF-STUDY REPORT**

**1. B. Profile of the Autonomous College**

1.     Name and Address of the College:

| Name: | **K.L.E. Society's Raja Lakhamagouda Science Institute (Autonomous), Belagavi. Karnataka - India** | | |
|---|---|---|---|
| **Address:** | **College Road, Belagavi. – 590001** | | |
| **City:** | **Belagavi** | **Pin: 590001** | **Karnataka** |
| **Website:** | **www.rlscinstitute.org** | | |

2.     For communication:

| Designation | Name | Telephone with STD code | Mobile | Fax | Email |
|---|---|---|---|---|---|
| Principal | Prof.V.G. Astagi | O) 0831-2420435 R) 0831-2454251 | 9900947575 | 0831-2420473 | rlsi_bgm@rediffmail.com |
| Vice Principal | - | - | - | - | - |
| Steering Committee Co-ordinator | Prof. R.R. Wadagavi | O) 0831-2420435 | 9449938855 | 0831-2420473 | rlsiiqac@gmail.com |

3.     Status of the Autonomous College by management.
       I. Government
       II.  Private          √
       III. Constituent College of the University

4.     Name of University to which the College is Affiliated-
       Rani Channamma University, Belagavi

5.     a. Date of establishment, prior to the grant of 'Autonomy':    01/06/1935
       b. Date of grant of 'Autonomy' to the College by UGC    :    13/10/2010

6.     Type of Institution:
       a. By Gender-
           i.   For Men
           ii.  For Women
           iii. Co-education          √

       b.  By Shift
           i.   Regular          √
           ii.  Day
           iii. Evening

c. Source of funding
  i.   Government
  ii.  Grant-in-aid            √
  iii. Self-financing          √
  iv.  Any other (Please specify)

7.  Is it a recognized minority institution?
    Yes
    No                         √

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.  | – |

8.  a. Details of UGC recognition:

| Under Section | Date, Month & Year (dd-mm-yyyy) | Remarks (If any) |
|---------------|--------------------------------|------------------|
| 2(f)          | 03/10/1987                     | -                |
| 12(B)         | 03/10/1987                     | -                |

As the college is established prior to 1972, it is included in the list of 2(f) and 12 (B).  However University letter to this effect was received on 03/10/1987- 2(f) and 2-03-1985-12(B)
(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)                 Annexure No. – 1&2

  b.  Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

  AICTE approval for MCA Programme:

| Under Section/clause | Day, Month and Year (dd-mm-yyyy) | Validity | Programme/institution | Remarks |
|----------------------|----------------------------------|----------|----------------------|---------|
| F-No.37-3/Legal/2011 dtd.30-09-2011 | 30-09-2011 | 2014-2015 | MCA | Validity is renewed every year as per AICTE requirement |

  (Enclose the Certificate of recognition/approval)      Annexure No. - 3

9.  Has the College been recognized
    a. By UGC as a 'College with Potential for Excellence'(CPE)?

        Yes  [    ]              No [  √  ]
    If yes, date of recognition: ……………………. (dd/mm/yyyy)

b. For its contributions/performance by any other governmental agency?

Yes ☐                              No ☑

If yes, Name of the agency …………………… and
Date of recognition: …………………… (dd/mm/yyyy)

10. Location of the campus and area:

| Location * | Urban |
|---|---|
| Campus area in sq. mts or acres | 25 acres |
| Built up area in sq. mts. | 7993.11 sq m. |

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Does the College have the following facilities on the campus (Tick the available facility)? In case the College has an agreement with other agencies in using such facilities provide information on the facilities covered under the agreement.
   - Auditorium/seminar complex                      ☑
   - Sports facilities
     * play ground                                   ☑
     * swimming pool                                 ☑
     * gymnasium                                     ☑
   - Hostel
     * Boys' hostels                                 ☑
     * Girls' hostels                                ☑
   - Residential facilities
     * for teaching staff                            ☑
     * for non-teaching staff                        ☑
   - Cafeteria                                       ☑
   - Health centre –
     * First aid facility                            ☑
     * Inpatient facility                            ☑
     * Outpatient facility                           ☑
     * Ambulance facility                            ☑
     * Emergency care facility                       ☑
   - Health centre staff –
     * Qualified doctor Full time    Part-time       ☑
     * Qualified Nurse Full time     Part-time       ☑

- Other facilities
  - Bank      √
  - ATM      √
  - post office      √
  - book shops      √
- Transport facilities
  - ∗ for students      -
  - ∗ for staff      -
- Power house      √
- Waste management facility      √

12. Details of programmes offered by the institution: (Give data for current academic year)

| Sl. No. | Programme Level | Name of the Programme/ Course | Duration | Entry Qualification | Medium of instruction | Sanctioned/ approved Student intake | No. of students admitted |
|---|---|---|---|---|---|---|---|
| 1 | UG | B.Sc. | 3 years | 10+2 | ENGLISH | 480 | 301 |
| | | BCA | 3 years | 10+2 | ENGLISH | 120 | 35 |
| | PG | M.Sc. Maths | 2 years | B.Sc. | ENGLISH | 40 | 24 |
| | | M.Sc. Physics | 2 years | B.Sc. | ENGLISH | 30 | 27 |
| | | MCA | 3 years | B.Sc./BCA | ENGLISH | 60 | 11 |
| 3 | Integrated Masters | - | - | - | - | - | - |
| 4 | M.Phil. | - | - | - | - | - | - |
| 5 | Ph.D. | - | - | - | - | - | - |
| 6 | Integrated Ph.D. | - | - | - | - | - | - |
| 7 | Certificate | | | | | | |
| 8 | Diploma | - | - | - | - | - | - |
| 9 | PG Diploma | - | - | - | - | - | - |
| 10 | Any other (please Specify) | Certificate course | 1year | B.Sc./BCA | ENGLISH | 481 | 481 |

13. Does the institution offer self-financed Programmes?

Yes [ √ ]      No [ ]

If yes, how many? [ 06 ]

14. Whether new programmes have been introduced during the last five years?

| Yes | √ | No | - |
|---|---|---|---|

If yes [ Number | 04 ]

15. List the departments: ( Do not list facilities like library, Physical Education as departments unless these are teaching departments and offer programmes to students)

| Particulars | Number | Number of Students |
|---|---|---|
| Science | | |
|     Under Graduate | 13 | 964 |
|     Post Graduate | 03 | 147 |
|     Research centre(s) | 01 | 21 |
| Arts | | |
|     Under Graduate | | |
|     Post Graduate | - | - |
|     Research centre(s) | | |
| Commerce | | |
|     Under Graduate | | |
|     Post Graduate | - | - |
|     Research centre(s) | | |
| Any Other (please specify) | | |
|     Under Graduate | | |
|     Post Graduate | - | - |
|     Research centre(s) | | |

16. Are there any UG and/or PG programmes offered by the College, which are not covered under Autonomous status of UGC? Give details:
NIL

17. Number of Programmes offered under (Programme means a degree course like BA, MA, B.Sc., M.Sc., B.Com. etc.)

a. annual system      01

b. semester system      05

c. trimester system      -

18. Number of Programmes with

a. Choice Based Credit System      03

   Inter/Multidisciplinary Approach      -

   Any other (specify)      -

19. **Unit Cost of Education**
    *(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)*

    (a) including the salary component    | ₹51,611.49/- |

    (b) excluding the salary component    | ₹4,750.15/- |

20. **Does the College have a department of Teacher Education offering NCTE recognized degree programmes in Education?**

    Yes | |          No | √ |

    If yes,

    a. How many years of standing does the department have? …… years

    b. NCTE recognition details (if applicable)
       Notification No.……………………………
       Date: …………………………… (dd/mm/yyyy)

    c. Is the department opting for assessment and accreditation separately?

    Yes | - |          No | - |

21. **Does the College have a teaching department of Physical Education offering NCTE recognized degree programmes in Physical Education?**

    Yes | |          No | √ |
    If yes,
    a. How many years of standing does the department have? …… years
    b. NCTE recognition details (if applicable)
       Notification No.……………………………
       Date: …………………………… (dd/mm/yyyy)
    c. Is the department opting for assessment and accreditation separately?

    Yes | - |          No | - |

22. **Whether the College is offering professional programme?**

    Yes | √ |          No | |

    If yes, please enclose approval / recognition details issued by the statutory body governing the programme.    Annexure No. - 4

23. Has the College been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon.

**Yes,** college has been reviewed by **NAAC.**
Annexure No. – 5

24. Number of teaching and non-teaching positions in the College

| Positions | Teaching faculty | | | | | | Non-teaching staff | | Technical staff | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Professor | | Associate Professor | | Assistant Professor | | | | | |
| | *M | *F | *M | *F | *M | *F | *M | *F | *M | *F |
| Sanctioned by the UGC / University / State Government | - | - | - | - | 59 | | 43 | | - | - |
| *Recruited* | - | - | 17 | 05 | 01 | 04 | 11 | - | - | - |
| *Yet to recruit* | - | - | - | - | - | 32 | 32 | - | - | - |
| Sanctioned by the Management/ Society or other authorized bodies | - | - | - | - | 34 | | 06 | | 04 | |
| *Recruited* | 03 | - | 01 | - | 08 | 22 | 02 | 04 | 02 | 02 |
| *Yet to recruit* | - | - | - | - | - | - | - | - | - | - |

   **\*M-Male \*F-Female**

25. Qualifications of the teaching staff

| Highest qualification | Professor | | Associate Professor | | Assistant Professor | | Total |
|---|---|---|---|---|---|---|---|
| | Male | Female | Male | Female | Male | Female | |
| Permanent teachers | | | | | | | |
| D.Sc./D.Litt. | - | - | - | - | - | - | - |
| Ph.D. | - | - | 03 | 03 | 01 | - | 07 |
| M.Phil. | - | - | 02 | 01 | - | 03 | 06 |
| PG | - | - | 12 | 01 | - | 01 | 14 |
| Temporary teachers | | | | | | | |
| Ph.D. | 03 | - | - | - | - | - | 03 |
| M.Phil. | - | - | - | - | 03 | 02 | 05 |
| PG | - | - | 01 | - | 04 | 21 | 26 |
| Part-time teachers | | | | | | | |
| Ph.D. | - | - | - | - | - | - | - |
| M.Phil. | - | - | - | - | - | - | - |
| PG | - | - | - | - | - | 02 | 02 |

26. Number of Visiting Faculty/ Guest Faculty engaged by the College.

03

27. Students enrolled in the College during the current academic year, with the following details:

| Students | UG | | PG | | Integrated Masters | | M.Phil. | | Ph.D. | | Integrated Ph.D. | | D.Litt./ D.Sc. | | Certificate | | Diploma | | PG Diploma | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F | M | F |
| From the state where the College is located | 341 | 593 | 52 | 86 | - | - | - | - | 09 | 12 | - | - | - | - | 132 | 319 | | - | - | - |
| From other states of India | 14 | 16 | 06 | 03 | - | - | - | - | - | - | - | - | - | - | 14 | 16 | | - | - | - |
| NRI students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Foreign students | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | 355 | 609 | 58 | 89 | - | - | - | - | 09 | 12 | - | - | - | - | 146 | 335 | - | - | - | - |

*M-Male        *F-Female

28. Dropout rate in UG and PG (average for the last two batches)

UG [ - ]        PG [ - ]

29. Number of working days during the last academic year. [215]

30. Number of teaching days during the last academic year [1 9 3 ]

31. Is the College registered as a study centre for offering distance education programmes for any University?

Yes [ - ]        No [ √ ]

If yes, provide the

a. Name of the University [ - ]

b. Is it recognized by the Distance Education Council?

Yes [ - ]        No [ - ]

Indicate the number of programmes offered. [ - ]

32. Provide Teacher-student ratio for each of the programme/course offered

| COURSE | Teacher :Student Ratio |
|--------|------------------------|
| B.Sc.  | 1:17 |
| BCA    | 1:45 |
| M.Sc.  | 1:17 |
| MCA    | 1:08 |

33. Is the College applying for?

Accreditation:   Cycle 1 ☐   Cycle 2 ☐   Cycle 3 √   Cycle 4 ☐

Re-Assessment: ☐ -

34. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1: 03/05/2004 Accreditation outcome/results: A GRADE

Cycle 2: 28/03/2010 Accreditation outcome/results: A GRADE

Cycle 3: ..………… Accreditation outcome/results:

* Kindly enclose copy of accreditation certificate(s) and peer team report(s)          Annexure No. – 6, 7 & 8

Cycle 1 refers to first accreditation; Cycle 2 and beyond refers to reaccreditation

35. a. Date of establishment of Internal Quality Assurance Cell (IQAC) 22/06/2004

    b. Dates of submission of Annual Quality Assurance Reports (AQARs).
    (i)    AQAR for year 2010-11 on 15/06/2011
    (ii)   AQAR for year 2011-12 on 28/09/2012
    (iii)  AQAR for year 2012-13 on 25/09/2013
    (iv)   AQAR for year 2013-14 on 30-09-2014

36. Any other relevant data, the College would like to include. (Not exceeding one page)

| - |
|---|

## CRITERION I: CURRICULAR ASPECTS

### 1.1 Curriculum Design and Development

### 1.1.1 How are the institutional vision/ mission reflected in the academic programmes of the College?

K.L.E. Society's R.L. Science Institute, Belagavi was established in the year 1935 with a vision to provide education to the people of North Karnataka.

**Our vision:**

To impart Education for Global Excellence.

**Our mission:**

- Character building through quality science education
- To bring about progressive quality reforms in pursuit of excellence
- To address the academic needs of the student community through wide variety of courses
- To make students intellectually competent to face the competitive world of employment
- To contribute to the popularization of science education and education in values
- To contribute to the self development of the students and through it to the community and national development
- **Character building through quality science education**

Building character in a student means making him intellectually mature, morally upright, socially responsible and spiritually inspired leader to serve all the sections of the society. To impart quality science education based on the values of 'Satya', 'Prema', 'Seve' and Swarthtyaga'('Truth', 'Love', 'Service' and 'Selflessness') which are embodied in our society's emblem.

The IQAC initiates and monitors all the developmental activities, curricular, co-curricular and extracurricular. It provides awareness to the faculty regarding the new developments in the educational scenario, e-learning and helps them in project preparation and seeking the funds from various agencies.

Local Inquiry Committee of parent university, Autonomous Governing body and the Stakeholders monitor the quality of education by extending help in the form of suggestions.

Further, the quality of education imparted is periodically evaluated by the external agency - National Assessment and Accreditation Council (NAAC) which helps in enhancing and sustaining the quality.

- **To bring about progressive quality reforms in pursuit of excellence**

By providing quality human resource, excellent infrastructure and necessary support services, we bring about progressive quality reforms.

We have qualified and experienced faculty to impart quality education and the support staff committed to render various services.

We have well equipped laboratories, spacious and ventilated classrooms, examination section, Digital Vision, library, indoor stadium, playground with cinder track etc.

All these and a few more bring progressive quality reforms in pursuit of excellence.

- **To address the academic needs of the student community through a wide variety of courses**

  Autonomous status of the institution provides freedom to introduce variety of courses to address the academic needs of student community.

  PG courses in Physics, Mathematics and Computer Applications, new programs introduced in UG course such as Mathematics, Electronics, Computer Science (MECs) and Mathematics, Economics, Statistics, (MEcoS) twenty Certificate courses and two Career Oriented Programs (COP) definitely address the academic needs of student community.

- **To make students Intellectually competent to face the Competitive world of Employment**

  To make the students intellectually competent and mature, the curriculum for the undergraduate courses is divided into five aspects.

- Learning of the English language which is compulsory for the UG students during the first four semesters
- Offering a choice of languages. A student can opt for anyone of the following languages viz. Kannada, Hindi, Additional English and Urdu during the first four semesters of the UG course
- Offering a choice of optional subjects and project work. Students choose their own basket of courses according to their aptitude, preferred choice of career or higher studies and research after graduation. Each student undertakes a project work in the final year of his undergraduate course. Cognitive skills of analysis resulting in synthesis of new things are developed by doing projects
- Mandatory subjects like, Indian Constitution, Personality Development & Communication Skills, Human Rights & Environmental Studies, Computer Applications, Professional Communication Ethics and Technical Communication Ethics enable students to have a broad based learning of other disciplines
- Two compulsory certificate courses in the duration of the UG course significantly enhance the knowledge of the students

In addition to these five aspects, Career Oriented Programmes and special training for PG students to face NET/SLET enhance the competence of the students and make them employable.

This pattern of curriculum makes students intellectually competent to face the competitive world of employment.

- **To contribute to the popularization of science education and education in values**

Science exhibitions are conducted and students from various schools and the general public are invited which help in popularization of science.

The faculty of the institute visits various schools as resource persons, guest speakers and judges, thereby work for the popularization of science among school children by highlighting the facts of science.

Science day is celebrated every year.

The success of the ambitious project of ISRO "Mangalyana" (MOM) was explained to the public by arranging a function and thus creating scientific awareness among the people.

- **To contribute to the self development of the students and through it to the community and National Development**

Imparting moral education through a series of lectures from Peers and educationalists on occasions such as Inaugural and Valedictory functions, Gandhi Jayanti, Raja Lakhamgouda Jayanti, Lingaraj Jayanti, Basava Jayanti etc.

Imparting ethical education by including relevant lessons in basic languages curricula to understand the needs of the welfare of the community. Spiritual lectures are arranged to inculcate moral values among the students.

Community outreach programmes involving students from NSS, NCC and NGO based activities promote the welfare of the community and the national spirit amongst the students.

Co-curricular, extracurricular and sports activities inculcate leadership qualities and team spirit among the students.

Conducting/Attending seminars and conferences bring about awareness in students on recent developments in the various fields.

In this way by imbibing all the requisite finer aspects of education, the students gain all round development of their personality and become healthy and useful citizens of the country that make them to contribute for the development of the nation.

## GOALS AND OBJECTIVES

- To provide quality science education to support technology
- To equip and empower students with relevant knowledge and competence to face global challenges
- To achieve innovations in teaching - learning, research and extension activities to realize national goals
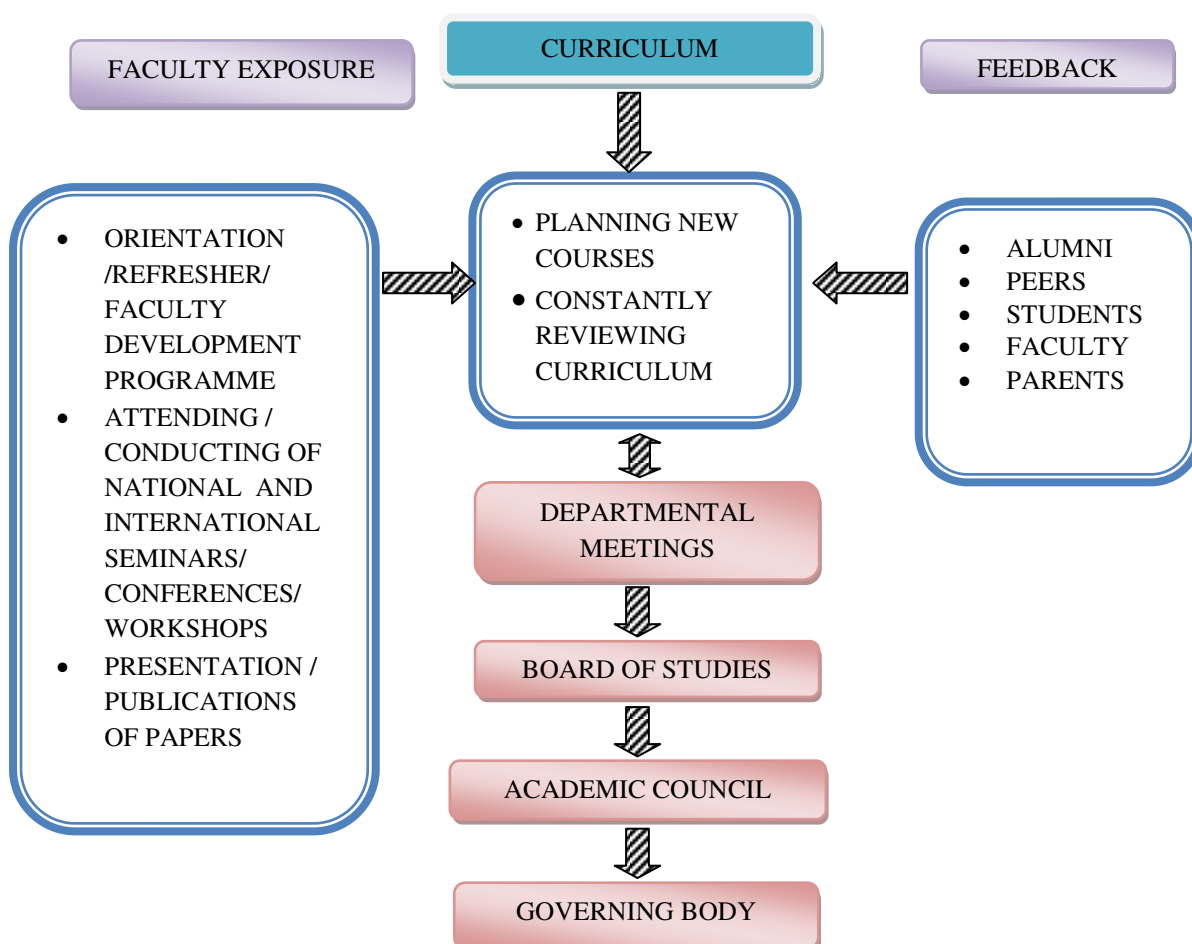
- To excel in higher education
- Empowerment of knowledge and advance learning
- To create awareness on human rights, patriotism, value system, culture, heritage, scientific temper and environment
- To create healthy atmosphere for the advancement of culture and also all-round personality development of the youth

The vision and mission of our institution are communicated to the students and other stakeholders through:

- Prospectus
- Display boards
- College website
- Meetings and interactions
- Induction programmes for freshers
- Guest lectures
- State/National level Seminars/ Conferences/Workshops
- Laboratory journals

**1.1.2 Describe the mechanism used in the design and development of the curriculum? Give details on the process. (Need Assessment, Feedback, etc)**

### CURRICULUM  DESIGN AND DEVELOPMENT



FACULTY EXPOSURE | CURRICULUM | FEEDBACK

- ORIENTATION /REFRESHER/ FACULTY DEVELOPMENT PROGRAMME
- ATTENDING / CONDUCTING OF NATIONAL AND INTERNATIONAL SEMINARS/ CONFERENCES/ WORKSHOPS
- PRESENTATION / PUBLICATIONS OF PAPERS

- PLANNING NEW COURSES
- CONSTANTLY REVIEWING CURRICULUM

- ALUMNI
- PEERS
- STUDENTS
- FACULTY
- PARENTS

DEPARTMENTAL MEETINGS

BOARD OF STUDIES

ACADEMIC COUNCIL

GOVERNING BODY

The college follows a multistep process in finalizing the syllabus. Teachers of a department are called for syllabus meeting by the head of the department where the relevance of the components of the syllabus, its ability to procure jobs and its importance in opening of areas of research and development are discussed. The feedback of faculty, alumni, students, parents, external experts are studied and reviewed and syllabus is finally framed in the Board of Studies meeting. The suggestions and inputs by subject experts are incorporated into the syllabus. The syllabus is forwarded to the Academic Council for discussion. The academic council approves this syllabus after in-depth discussion. Final approval is given by the Autonomous Governing Body.

### 1.1.3 How does the College involve industry, research bodies and civil society in the curriculum design and development process? How did the College benefit through the involvement of the stakeholders?

Our statutory bodies like Governing Body, Academic Council, BoS and IQAC include experts from academic fields, industries, research bodies, civil societies and affiliating university to give valuable suggestions for the curriculum design and development

- The MoU signed with the industries, health science and technical institutions helps in developing the need based curriculum
- Syllabi are updated based on the feedback received from the students, parents and alumni for the requirements of employability
- Eminent speakers, scientists, research scholars, academicians, alumni are invited for the seminars / workshops. Their views and rich knowledge are also given weightage
- The placement cell of the college keeps in touch with the industries and IT companies. Their requirements also are considered in developing and designing the curriculum

### BENEFIT

Stakeholders play a major role in the design of curriculum. The suggestions obtained from them are analyzed regularly to understand their various requirements. Based on the suggestions made by the stakeholders and statutory bodies, three PG courses, twenty two certificate courses, NET/SLET coaching classes, new subject combinations and career oriented programs are introduced which enhance the employability of the students.

As a result the curriculum is made effective and this offers scope for in-depth knowledge and equips our learners to compete at global level.

### 1.1.4 How are the following aspects ensured through curriculum design and development?

∗ Employability
∗ Innovation
∗ Research

#### ∗ EMPLOYABILITY :

- The curricula of UG and PG courses are periodically redesigned to enhance the employability of the students
- To promote employability the following certificate courses are offered at the UG level:
  - Information Technology & Computer Application
  - Medical Laboratory Technician Course
  - Electrical engineering
  - Geophysics
  - Interdisciplinary certificate courses in analytical chemistry
  - Chemical product development and Entrepreneurship
  - Sugar technology
  - Polymer chemistry
  - Discrete mathematics
  - Commercial arithmetic
  - Qualitative technique for competitive examinations
  - Research Methodology
  - Mushroom cultivation
  - Horticultural practices
  - Poultry science
  - Dairy Science
  - Food and nutritional Biotechnology
  - Plant tissue culture
  - Certificate course in communication skills in English
  - Advanced Certificate course in communication skills in English
  - Web Programming
  - Soft skills
- Career Oriented Programme
  - Training the PG students for NET/SLET examination
  - Training through the placement and career guidance cell
  - Entrepreneurship programme and competitive examinations

#### ∗ INNOVATION:

- Fieldwork and project work are incorporated in the curriculum
- Topics such as Nanoscience, Green Chemistry, Liquid Crystals, Environmental Science, Research Methodology, Disaster Management and Clinical Biology are included in the curriculum
- To create social and environmental awareness among the students value education and environmental studies are included in the curriculum

- The PG students are given opportunity to study any one open elective subject from other disciplines as a part of horizontal mobility. This promotes inter disciplinary interest among the students
- Certificate course in Web Programming
- Advanced Certificate Course in Communication Skills in English

∗ **RESEARCH:**

For UG & PG students projects are made as an integral part of the curriculum to pursue further interest in research .Topic like Research Methodology is included in the curriculum.

The curriculum is designed in such a way that the students are given training to handle advanced research equipments available in the laboratories. This will motivate the students to undertake research.

Majority of our faculty are undertaking major and minor research projects and publishing research papers that enhance the knowledge of our faculty which positively helps in designing curriculum and guiding the students in their respective project work and Ph.D. programme, thus creating awareness about research at higher level.

## 1.1.5 How does College ensure that the curriculum developed address the needs of the society and have relevance to the regional /national developmental needs?

The need of the country is development and growth in all fields, so that the evils of unemployment, poverty and corruption can be curbed.

- According to the various levels of the programmes, advanced and contemporary subjects like Electronics, Computer science and Biotechnology are gradually included in the curriculum to meet the current needs of the society
- To impart values among the students, value education, Indian Constitution, Personality development, Communication Skills, Human Rights & Environmental Studies, Professional Technical Ethics and Technical Communication Ethics are made compulsory
- The numerous association activities, add-on courses, certificate courses and components like Waste Water Management, Energy Conservation, Pollution control, Industrial Biotechnology, Basic Fundamental Principles in Industry are included in the curriculum as a measure of developmental needs of the nation
- Depending upon the local needs, application oriented courses like Electrical Engineering, Mushroom Cultivation, Poultry Science, Food & Nutritional Biotechnology, Geophysics, Analytical Chemistry etc. are introduced at UG level
- NET/SLET coaching is given to PG students by inviting scholars from different universities which enables them to fulfill the eligibility for teaching profession in institutions of higher education

- All the components incorporated in the syllabus definitely address the needs of the society and are relevant to the regional and National development needs

**1.1.6 To what extent does the College use the guidelines of the regulatory bodies for developing or restructuring the curricula? Has the College been instrumental in leading any curricular reform which has created a national impact?**

The regulatory bodies are UGC, Commissioner of Higher Education, Government of Karnataka and Rani Channamma University Belagavi. The college adheres to the system and guidelines offered by the regulatory bodies in framing and restructuring the curricula.

Our college has been instrumental in facilitating parent University to frame the curriculum by conducting workshops in redesigning syllabi of Physics, Mathematics and Biotechnology at UG level.

The Academic Council and BOS of different subjects review syllabus under UGC guidelines as per the regional needs providing holistic development of youth, which creates a national impact.

**1.2 Academic Flexibility**

**1.2.1 Give details on the following provisions with reference to academic flexibility**
**a. Core / Elective options**
- A student of twelfth class with the PCMB combination can take any one of the eight combinations. A student of twelfth class with PCME/PCMCS/ PCMS can take any one of the five combinations

The college offers B.Sc. and BCA as UG courses and PG course in Physics, Mathematics and Computer Applications.
It has nine departments –
Physics, Electronics, Chemistry, Mathematics, Statistics, Botany, Zoology, Biotechnology and Computer Science.

Four language departments –Kannada, English, Hindi and Urdu.
Economics is included in one of the subject combinations.
The college also offers certificate courses.

- At the UG level the college offers eight combinations with ten subjects, which indicate wide academic flexibility

The combinations are:
1. Physics, Chemistry, Mathematics
2. Physics, Mathematics, Electronics
3. Physics, Mathematics, Statistics
4. Chemistry, Botany, Zoology

5. Chemistry, Biotechnology, Zoology
6. Chemistry, Biotechnology, Botany
7. Mathematics, Computer Science, Electronics
8. Mathematics, Statistics, Economics

In addition to any one of the above combinations, the students study the following subjects:

- Basic English            Semester - I,II,III and IV
- Indian Constitution        Semester - I
- Human Rights and Environmental Studies  Semester - II
- Personality Development &      Semester - III
  Communication Skills
- Computer Applications       Semester - IV

The students of B.Sc. I, II, III and IV Semester have the option to study one of the following Modern Indian Languages (MIL):

- Kannada
- Hindi
- Additional English
- Urdu

  The students of B.Sc. V and VI semester have to study only the core subject combinations
- BCA- a six semester degree course in Computer applications
- The college also provides twenty two certificate courses. Out of these, a student is given flexibility to select any two Certificate Courses in the duration of three years of UG course
- **PG Course:** There are PG courses in Physics, Mathematics and Computer Applications (MCA)

An extra inter-disciplinary subject is offered for M.Sc. students studying in II and III semesters.

## b. Enrichment courses

Certificate Courses are open to all UG students of the college irrespective of their core option. Each student is expected to complete two Certificate Courses by the time he/she completes the graduation. The skill based subjects offered in the UG curriculum enrich the potentiality of the students. The UGC sponsored Career Oriented Programmes in Medical Laboratory Technician Course (MLTC) and Computer Applications provide an opportunity for the learners to enrich their knowledge.

## c. Courses offered in modular form:      No

## d. Credit transfer and accumulation facility

Such facility does not exist at present.

### e. Lateral and vertical mobility within and across programmes and courses

As such there is no lateral mobility within and across programmes and courses. However, two Certificate Courses(out of 22) which a student studies along with the core options provide lateral mobility and three PG courses, M.Sc. in Physics, M.Sc. in Mathematics and MCA provide the vertical mobility to our UG students.

**1.2.2 Have any courses been developed specially targeting international students? If so, how successful have they been? If 'no', explain the impediments.**

No.

**1.2.3 Does the College offer dual degree and twinning programmes? If yes, give details.**

The college does not offer any dual degree or twinning programmes.

**1.2.4 Does the College offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?**

**Yes.**

| | | |
|---|---|---|
| UG: | B.Sc. | 1. Biotechnology |
| | | 2. Electronics |
| | | 3. Computer Science |
| | | 4. Economics |
| | BCA | |
| PG: | M.Sc. | 1. Physics |
| | | 2. Mathematics |
| | MCA. | |
| | UG | Certificate courses |

**Admission:**
Admission to B.Sc., BCA and M.Sc. , MCA courses is based on merit and interview as per the State Government and Parent University Norms.
**Feestructure:**
Fee structure for BCA, B.Sc. Biotechnology, Electronics, Computer Science and M.Sc. Physics, Mathematics and MCA is decided by the Governing Body of the college.
**Teacher qualification:**
Selection of the teacher is done as per the qualification prescribed by UGC and AICTE norms.
**Salary:**
The college offers management scale.

### 1.2.5 Has the College adopted the Choice Based Credit System (CBCS)? If yes, how many programmes are covered under the system?

**Yes.**

Three PG programmes :    M.Sc. Physics

M.Sc. Mathematics

MCA

### 1.2.6 What percentage of programmes offered by the College follows:

∗ **Annual system**

∗ **Semester system**

∗ **Trimester system**

All certificate courses follow Annual system (100 %).

UG Course (B.Sc. & BCA) and PG Course (M.Sc. & MCA) follows the semester system (100%)

There is no trimester system.

### 1.2.7 What is the policy of the College to promote inter- disciplinary programmes? Name the programmes and what is the outcome?

**POLICY:**

As per recommendation of Governing body, Academic Council, BOS, IQAC, inter-disciplinary programmes are introduced wherein the units of inter-disciplinary nature in syllabus at the UG level are included.

- Inter-disciplinary programmes which include subjects like Biotechnology, Computer Science, Economics, Statistics and Electronics introduced in the UG level
- In PG Course, one Open Elective paper is included exclusively as an inter-disciplinary approach in II and III semester
- Further to promote inter-disciplinary nature following certificate courses are introduced:
  - Information Technology & Computer Application
  - Medical Laboratory Technician Course
  - Electrical engineering
  - Geophysics
  - Interdisciplinary certificate courses in analytical chemistry
  - Chemical product development and Entrepreneurship
  - Sugar technology
  - Polymer chemistry
  - Discrete mathematics
  - Commercial arithmetic
  - Quantitative technique for competitive examinations
  - Statistical computing
  - Mushroom cultivation
  - Horticultural practices
  - Poultry science

- Dairy Science
- Food and nutritional Biotechnology
- Plant tissue culture
- Certificate course in communication skills in English
- Advanced Certificate course in communication skills in English
- Web Programming
- Soft skills

## OUTCOME:

- The Inter-disciplinary approach of our Curriculum provides wider options to pursue higher studies and research
- This system enriches soft skills and life skills of the students and enhances the employability of the students

B.Sc. and BCA programmes follow inter-disciplinary approach which include Mathematics, Biotechnology, Computer Science, Accountancy, Electronics, Languages etc. Majority of the students pursue higher education and rest of the students have been placed in various reputed companies like WIPRO, INFOSYS etc.

## 1.3  Curriculum Enrichment

### 1.3.1 How often is the curriculum of the College reviewed for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?

The curriculum of the college is reviewed once in three years. We profoundly study the feedback, suggestions and recommendations given by the IQAC, BOS, Students, Parents and Industrialists. Then the areas of study that need modernization and enhancement are indentified so that they shall become socially relevant and job oriented. Employment, higher studies and research are key concerns of the college and curriculum is updated and made student centric by changing and including new units in the syllabus.

### 1.3.2 How many new programmes have been introduced at the UG and PG level during the last four years? Mention details.
∗ **Inter-disciplinary**
∗ **programmes in emerging areas**
- **Inter-disciplinary:**
  The college has started two new combinations in UG course in the year 2013-14.
  1. Economics, Statistics and Mathematics
  2. Electronics, Mathematics and Computer Science
  In PG course M.Sc. Physics and Mathematics are introduced in the year 2010. One of the papers is open elective which follows inter-disciplinary approach.
MCA is introduced in the year 2012.

- **Programmes in emerging areas:**
  Twenty two Certificate courses.

### 1.3.3 What are the strategies adopted for revision of the existing programmes? What percentage of courses underwent a major syllabus revision?

The vision of the college is to impart Education for Global Excellence. To address this, revision of curriculum takes place once in three years. The following strategies are adopted:

- The syllabi of existing programmes are revised keeping in focus the need of the students in the present age, specifically in the field of knowledge enhancement and job placement
- Revision in the syllabus is made by incorporating the feedback obtained from the students, subject experts, faculty members, alumni and academic experts

Suggestions from faculty members during the department meetings are also considered. The re-structured curriculum is reviewed by Board of Studies and then forwarded to Academic Council and the Governing body for approval. Finally revised curriculum is sent to the Parent University for information.

- The modification in the syllabus aims at academic excellence and the fulfillment of global and regional needs

After the introduction of Autonomy all the existing programmes underwent curricular revision.

### 1.3.4 What are the value-added courses offered by the College and how does the College ensure that all students have access to them?

- The college has a compulsory course on Human Rights and Environmental science, which creates awareness among the students about environment. The students develop a sense of values through this course. They are taught to care for nature, and fight against pollution and work for the conservation of water
- To impart values among the students, moral education, Indian Constitution, Personality Development & Communication Skills are also made compulsory
- The college has NCC Army and Air wing. The students learn values of Patriotism, National Integration, Cultural Diversity and protection of the value system of the country
- The NSS unit of the college organizes many awareness camps such as Blood donation, AIDS awareness, Women Empowerment, plantation, Health and hygiene etc.

All the students have access to value added programmes as these are related to curricular, co-curricular and extracurricular activities.

## 1.3.5 Has the College introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

No, however,

- Placement cell of the college conducts various training programmes on employability skills
- Entrepreneurship awareness camp for B.Sc. final year students was arranged which was sponsored by NSTEDB, EDI, CEDOK, DIC.
- Soft Skill Programme
- Advanced Computer Skill programme like Web programming, Cloud Computing, Database Administration etc.

## 1.4 Feedback System

## 1.4.1 Does the College have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

Yes, the college has a formal mechanism to obtain feedback from students. Feedback is considered as means for betterment and change. It is collected from the students at different levels.

Feedback in each programme is obtained by the students in every semester. The feedback format contains ten parameters about the curriculum. They are:

1. Intellectual content
2. Academic content
3. Community orientation
4. National development goals
5. Focus on multi-skill development
6. Global competencies
7. Focusing on values
8. Syllabus precision and clarity
9. Need based and Market driven
10. Overall rating

For each parameter students give the grades A/B/C/D.

A for Very good
B for Good
C for Satisfactory
D for Unsatisfactory.

In addition to awarding the grades, students are given freedom to suggest any points to reform the existing curriculum.

The feedback committee analyzes the result and submits the report to the Head of the Institution. The constructive suggestions are incorporated in the BOS meeting while revising the curriculum.

**1.4.2 Does the College elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods adopted to do the same - (conducting webinar, workshop, online forum discussion etc.). Give details of the impact on such feedback.**

**Yes,** the college invites eminent resource persons for the National level seminars/ workshops/conferences. Based on the interactions with the experts changes are made in the curriculum.

We have conducted workshop for redesigning curricula of Rani Channamma University in Physics, Mathematics and Biotechnology. Suggestions from the experts are incorporated in the curriculum.

**Impact:**

These feedback mechanisms helped us in evolving curriculum in emerging areas and global demand and also skill development oriented curriculum contribute towards the skilled human resources and further both these contribute for the national development.

**1.4.3 Specify the mechanism through which alumni, employers, industry experts and community give feedback on curriculum enrichment and the extent to which it is made use of.**

In our autonomous system, it is inbuilt mechanism to nominate alumni, industrialists and academicians to the statutory bodies like Governing Body, Academic Council, Board of Studies, IQAC, wherein they express their opinions about curriculum. They play an important role in curriculum enrichment through their valuable opinions on the utility of the course**.**

- Feedback is collected from the alumni every year during the alumni meet. They pass on vital information regarding employability skills required for the students
- The college organizes industrial visits and field trips. This provides an opportunity to interact with the industrialists and get information about the industrial sector. The college invites renowned industrialists to enlighten us about the functioning of the industries During their visits suggestions made by them are incorporated
- The placement officer obtains the suggestions and requirements of the recruiters through interaction during campus interviews. Their suggestions are incorporated while designing the curriculum
- Camps organized by NCC / NSS and social activities provide an opportunity to interact with the community and introduce need based programmes
- Feedback and suggestions from all the stakeholders are used to enrich the curriculum

### 1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the institution in ensuring effective development of the curricula?

The multistep process which we follow in framing the curriculum helps to sustain the quality. First at the department level the concerned teachers revise the syllabus. While framing the syllabus feedback of alumni, students and parents are considered. In Board of Studies meeting, external experts review the syllabus. Valuable suggestions and inputs by the experts are incorporated into the syllabus. The syllabus is next forwarded to the academic council and finally Autonomous governing body will approve the syllabus.

The IQAC also performs an important role in monitoring the quality sustenance. IQAC meetings are conducted regularly to chalk out the plans and monitor their implementation for the enhancement of the quality.

Timely submission of AQAR ensures the sustenance of the quality.

Faculty development programs conducted by the college widen the knowledge base of the faculty and keep them updated with latest advancements and this contributes to the effective curriculum development.

Faculty visiting other institutes as a resource person helps in gathering extra information about the effective curriculum.

Faculty members organize/attend National Seminars/ Conferences/ Workshops /International Seminars. They publish research papers and actively involve in MRPs which help in redesigning the curriculum with quality.

## CRITERION II: TEACHING - LEARNING AND EVALUATION

### 2.1 Student Enrolment and Profile

### 2.1.1 How does the College ensure publicity and transparency in the admission process?

The institution ensures wide publicity and transparency in the admission process through:

- Display of notice on the college notice boards in the main building, department buildings and ladies room
- Hosting details on Institutional website
- Advertisement in regional / national news papers
- Prospectus- containing detailed information about the process
- By campaign for PG courses
- The admission process is monitored by the admission committee

- Location of the college in the heart of the city and market area, naturally attracts the potential students for admission
- Display of the list of the students (merit & category wise) and the list of selected students also ensures transparency
- Through parents and Alumni meets
- Satisfied students are our best source of publicity
- Admission process is completely transparent as it is made according to the reservation policies of Government of Karnataka and Parent University

**2.1.2 Explain in detail the process of admission put in place for UG, PG and Ph.D. programmes by the College. Explain the criteria for admission (Ex. (i) merit,(ii) merit with entrance test,(iii) merit, entrance test and interview,(iv) common test conducted by state agencies and national agencies (v) others) followed by the College?**

**UG Programme:**

Admissions are based on merit however, the reservation policy of the state government for downtrodden classes is taken care by the college admission committee.

At the time of admissions all original documents are verified and the students are admitted by collecting the bank challan copy generated by our MIS for deposit of prescribed fees.

**P.G. programme**

Parent University conducts entrance test and selects the students. The selected students' list is sent to the college and inturn the college gives the admission to such students. University quota is 50% and remaining 50% of sanctioned strength for enrollment is the management quota. Admission to management quota is also made on merit. However from the year 2012 – 13 all the PG seats are filled by the college on the basis of merit following the government reservation policy.

**Ph.D. Programme**

Students are selected by the university on the basis of merit and written test. These students are alloted to research guides of our college as per the directions of the university.

**2.1.3 Does the College have a mechanism to review its admission process and student profiles annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?**

Yes, the college has a review mechanism in respect of admission process and student profile. Review of admission process helps in hassle free admission routines besides attracting meritorious students into the academic stream.

Faculty members counsel the potential students at the time of admission and explain the importance of studying the particular subject.

The review mechanism has helped in attracting meritorious students as they are given scholarship/fee concession by the college. Highly meritorious students are admitted with a nominal fees of ₹10/-, while the remaining fee is borne by the college.

Students of different demographics such as rural, semi urban and urban, students with special needs, boys and girls within and outside Karnataka state and intelligent and average students are being admitted in the college to ensure access and inclusiveness to cross sections of the society.

## 2.1.4 What are the strategies adopted to increase/ improve access to students belonging to the following categories.
∗ SC/ST
∗ OBC
∗ Women
∗ Different categories of persons with disabilities
∗ Economically weaker sections
∗ Outstanding achievers in sports and extracurricular activities

The college has adopted following strategies:

∗ **SC/ST and OBC Students**

Reservation policies of the Government are followed to ensure that the strategies adopted by the Government, provide equal opportunity to SC/ST and OBC applicants. SC/ST and OBC cell provides all the information and assistance for getting scholarships and fee concession.

∗ **Different Categories of Persons with Disabilities**

Physically and visually challenged students who seek admission are admitted. The college provides special infrastructural facilities like ramps and wheel chairs for the differently abled students. Information about said facilities, scholarship and other infrastructural facilities are mentioned in the college prospectus and website.

∗ **Women students**

To enroll more number of girl students, the college has provided all the facilities to women. At present about 60 percent of students who are studying in this college are women. Representation is given to women students in sports and cultural fora in adequate measure.

Safety measures like ID Cards, security guard, 24 hours helpline is provided. In sports, separate multi gym facility is provided to ladies students. Ladies room with necessary facilities exists on the college campus.

∗ **Economically weaker sections**

The college provides fee concessions, scholarships and also Poor Student Lending library facility for the students from economically weaker sections. There is a reserved quota in admission to economically weaker sections of the society whose income is below the amount fixed

by the Government. Earn while you learn facility also exists for such students.

* **Outstanding achievers in sports and extracurricular activities**
  ▪ Outstanding sports persons are given preference in admission.
  ▪ Freedom in choosing the subject combination
  ▪ Fee concession
  ▪ Condoning the attendance shortage for valid reasons
  ▪ Providing sports uniforms and equipments
  ▪ Supply of nutritious diet
  ▪ Arranging special test for students who miss the regular test due to participation in various competitions
  ▪ Special theory and practical classes
  ▪ Special coaching in sports by professional coaches from Government and other organizations
  ▪ Endowment prizes and cash prizes

**2.1.5 Furnish the number of students admitted in the College in the last four academic years.**

### UG Programme (B.Sc. and B.C.A)

| Categories | 2010-11 | | 2011-12 | | 2012-13 | | 2013-14 | | 2014-15 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| SC | 27 | 41 | 32 | 42 | 33 | 38 | 35 | 34 | 28 | 31 |
| ST | 16 | 05 | 14 | 10 | 09 | 11 | 09 | 11 | 08 | 13 |
| OBC | 177 | 137 | 125 | 118 | 175 | 170 | 176 | 228 | 194 | 278 |
| General & Others | 161 | 289 | 207 | 325 | 179 | 326 | 142 | 315 | 125 | 287 |
| Total | 381 | 472 | 378 | 495 | 396 | 545 | 362 | 588 | 355 | 609 |



UG Students Strength

**PG Programme (M.Sc. Physics, M.Sc. Mathematics and M.C.A)**

| Categories | 2010-11 | | 2011-12 | | 2012-13 | | 2013-14 | | 2014-15 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| **SC** | 03 | 02 | 04 | 02 | 03 | 01 | 03 | 05 | 02 | 04 |
| **ST** | 01 | 02 | 01 | 01 | 01 | 01 | 01 | 01 | - | - |
| **OBC** | 17 | 19 | 27 | 23 | 29 | 25 | 39 | 29 | 08 | 12 |
| **General & Others** | 06 | 08 | 18 | 20 | 32 | 38 | 33 | 46 | 48 | 73 |
| **Total** | **27** | **31** | **50** | **46** | **65** | **65** | **76** | **81** | **58** | **89** |



### 2.1.6 Has the College conducted any analysis of demand ratio for the various programmes offered by the College? If so, indicate significant trends explaining the reasons for increase/decrease

Analysis of demand ratio is made on the basis of number of applications received and the number of seats available for enrollment in the college. Demand/ availability ratios are

- UG;  1:1
- PG;   1:2
- Ph.D.; enrollment is made by the University
- Certificate course; 1:1

Trend noticed: There is an increase in demand ratio specifically from girl students

At UG level students prefer PCM combination due to employment opportunities in IT sector.

At PG level students prefer Mathematics and Physics as there is demand for the post of lecturers.

### 2.1.7 Was there an instance of the College discontinuing a programme during last four years? If yes, indicate the reasons.

- There are no such instances.

## 2.2   Catering to Student Diversity

**2.2.1 Does the College organize orientation/ induction programme for fresher? If yes, give details of the duration of programme, issue covered, experts involved and mechanism for using the feedback in subsequent years.**

Yes, the college conducts orientation/induction programme for freshers every year.

**Orientation programme / Induction programme:**

Orientation programme is conducted at the beginning of the academic year mainly to enlighten the newly admitted students about the college curricula, infrastructure, evaluation process and facilities available for the students.

Welcome functions are also organized by senior students. The students' opinions about the college are recorded.

In the beginning of the academic session the HODs or trained facilitators conduct induction programme at the classroom level.   They introduce the departments to the new students with special emphasis on

- Academic facilities including certificate courses
- Admission formalities
- Examination pattern
- Library services
- Departmental services
- Support services including NCC/ NSS etc.,
- Prizes and scholarships

The orientation /induction programme conducted is of two-day duration.

A feedback taken from the students is used to improve admission process, curriculum, facilities on the campus and the content of orientation programme in future.

**2.2.2 Does the College have a mechanism through which the "differential requirements of student population" are analyzed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?**

**Yes,** the college is located in an urban area but the majority of students who take admissions are from heterogeneous backgrounds. Therefore concerted efforts are made to identify the various requirements of the students through the admission records and induction programme outcomes. The necessary steps are taken effectively to satisfy their various requirements.

| Sl. No. | Differential requirements | Remedies |
|---|---|---|
| 1. | Communication skills | English enhancement through certificate course in communication skills. |
| 2. | Needs of advanced learners | Additional facility of library, project work, publication of articles, encouragement given to students to attend seminars and present papers, quality assignments, participation in science exhibition etc. |
| 3. | For women students | Providing hostel facilities, Empowerment initiatives by women's empowerment cell, separate rest room, help line facilities, etc. |
| 4. | Commutation from long distance | Facilities provided for train and bus passes issued by public road transport and railways. |
| 5. | For differently-abled students. | Provision of<br>• Ramps and wheel chairs<br>• Scholarships<br>• Classes and practicals in ground floor only |
| 6. | Health care of students | Vaidyashri health care card given to every student |
| 7. | Student safety insurance | Group insurance by The New India Assurance company Ltd. |

**2.2.3 Does the College provide bridge/Remedial/ add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?**

Yes, we conduct Bridge/Remedial courses. The details are:

- Bridge course – During first week of the commencement of academic year by each department
- Remedial Coaching – Before college hours
- Enrichment classes – After college hours
- Certificate Courses – Every Saturday from 9 am to 11 am

List of Certificate courses:

| Sl. No. | Name of the Department | Name of the certificate course |
|---|---|---|
| 1 | Physics | • Certificate course in Electrical Engineering<br>• Geo-physics |
| 2 | Chemistry | • Interdisciplinary certificate course in analytical chemistry<br>• Skill development and entrepreneurship<br>• Sugar technology<br>• Polymer chemistry |
| 3 | Statistics | • Quantitative techniques for competitive examinations<br>• Statistical computing & research methodology |
| 4 | Mathematics | • Discrete mathematics<br>• Commercial arithmetic |

| 5 | Botany | • Mushroom Cultivation<br>• Horticulture practices |
|---|---|---|
| 6 | Zoology | • Poultry Science<br>• Dairy Science |
| 7 | Biotechnology | • Food and Nutritional Biotechnology<br>• Plant tissue culture |
| 8 | English | • Communication skills in English<br>• Advanced communication Skills in English |
| 9 | BCA | • Soft skill<br>• Web programming |

- Career Oriented Programs:
    a) Medical Laboratory Technician Course
    b) Information and computer technology

**2.2.4 Has the College conducted a study on the incremental academic growth of different categories of students;- student from disadvantaged sections of society, economically disadvantaged, physically challenged and slow learners etc.? If yes, give details on how the study has helped the College to improve the performance of these students**

Yes, the college has conducted a study on the incremental academic growth of different categories of students – from disadvantaged sections of society, economically disadvantaged, physically challenged and slow learners. The details of the studies are as follows:

INCREMENTAL GROWTH
BSc.2010 – 11 To 2012 -13 batch

| Sl. No. | Category | No. of students | B.Sc. – I Entry % | B.Sc.-III Exit % | Incremental growth % |
|---|---|---|---|---|---|
| 1 | SC | 27 | 48.88 | 68.88 | 20.00 |
| 2 | ST | 05 | 42.40 | 53.60 | 11.00 |
| 3 | Economically weaker section | 63 | 53.73 | 71.73 | 18.00 |
| 4 | Slow learners | 50 | 59.71 | 69.82 | 10.11 |
| 5 | Physically challenged | - | - | - | - |

BSc 2011 – 12 To 2013 -14 batch

| Sl. No. | Category | No. of students | B.Sc. – I Entry % | B.Sc.-III Exit % | Incremental growth % |
|---|---|---|---|---|---|
| 1 | SC | 19 | 44.00 | 56.94 | 11.94 |
| 2 | ST | 08 | 50.00 | 57.66 | 07.00 |
| 3 | Economically weaker section | 49 | 43.83 | 70.61 | 27.00 |
| 4 | Slow learners | 46 | 56.25 | 70.12 | 13.77 |
| 5 | Physically challenged | -l | - | - | - |

## Incremental Growth of Slow Learners (B.Sc.)



### BCA .2010 – 11 To 2012 -13 batch

| Sl. No. | Category | No. of students | B.Sc. – I Entry % | B.Sc.-III Exit % | Incremental growth % |
|---|---|---|---|---|---|
| 1 | SC | 03 | 45.86 | 61.3 | 15.44 |
| 2 | ST | 02 | 45.4 | 60.4 | 14.6 |
| 3 | Economically weaker section | - | - | - | |
| 4 | Slow learners | 45 | 55.36 | 65.29 | 9.93 |
| 5 | Physically challenged | - | - | - | - |

### BCA 2011 – 12 To 2013 -14 batch

| Sl. No. | Category | No. of students | B.Sc. – I Entry % | B.Sc.-III Exit % | Incremental growth % |
|---|---|---|---|---|---|
| 1 | SC | 05 | 45 | 66.2 | 21.2 |
| 2 | ST | - | - | - | - |
| 3 | Economically weaker section | - | - | - | - |
| 4 | Slow learners | 45 | 61.00 | 61.30 | 0.3 |
| 5 | Physically challenged | - | - | - | - |

## Incremental Growth of Slow Learners (BCA)

From the above tables, it is clear that the academic performance of the students of our college belonging to SC, ST, economically weaker sections, physically challenged and slow learners has improved.

In addition to this, the mentors who are in charge of groups of students and class teachers also monitor the overall growth of the students.

### 2.2.5 How does the institution identify and respond to the learning needs of advanced learners?

Advanced learners normally have more expectations from the institution. The requirements of such students are identified and necessary guidance is given.

Based on their test performance in the beginning of the semester and Semester end Examination results in the subsequent semesters.

Such students are given additional information beyond the syllabus and are also motivated to think of various applications about the theory they learn in class. They are encouraged to participate in group discussions, debate, quiz, seminar and other competitions. They are provided an opportunity to interact with eminent scientists and academicians. The college and departmental libraries provide them with additional learning resources.

These students are guided for their projects and paper presentations at national/ state level seminars.

### 2.2.6 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

Provision of:
- Ramps and wheel chairs
- Classes and practicals in ground floor only
- Free hostel facility for the needy
- Priority in admissions, scholarships as per the government policies

### 2.3 Teaching – Learning Process

### 2.3.1 How does the College plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan and evaluation blue print, etc.)

**Academic Calendar:**

The committee involving few HODs and senior faculty members prepare the academic calendar before the closure of an academic year, so that it can be implemented from the beginning of next academic year. Opinions of all the stake holders are collected and considered while preparing the academic calendar. This calendar contains information about commencement of theory and practical classes, internal test,

Semester End Exam, announcement of results, departmental guest lectures, celebrations of various events etc.

Utmost care is taken to follow this academic calendar.

**Teaching plans:**

After allocation of the syllabus by HODs, each staff member of the department prepares a teaching plan at micro and macro level synchronizing with the academic calendar of the college. Due weightage is given for the contents of the syllabus while preparing the teaching plan.

Question paper blue print is given in the syllabus of every subject.

Evaluation blue print is prepared soon after setting the question paper for test/ semester end exam. Paper valuation is done according to this blue print.

**2.3.2 Does the College provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?**

Yes,

- Course outlines and course schedule are explained to the students during admission counseling by the faculty members. The college prospectus also contains this information
- Student handbook containing syllabi of all subjects, Academic calendar, Rules and Regulations of the college is given to the students at the time of admission

Examination results and university ranks bagged by our students have proved the efficiency of the process practised by the college.

**2.3.3 What are the courses, which predominantly follow the lecture method? Apart from class room interactions, what are the other methods of learning experiences provided to students?**

For all UG & PG Courses

- Class room lecturing method is predominantly followed
- ICT based teaching learning through PPT
  **Other methods of learning experiences provided to the students**
- Visit to industries/ research centers / field study/ projects/ seminars/assignments group discussion/science exhibition/quiz competition/Guest lectures
- Role play
- Experiential learning
- Interaction with peers
- Participation in and conduct of national/state level workshops/ seminars/ conferences on the syllabi related topics
- Use of charts and models

- Certificate courses
- Internet browsing facility
- Digital library access to the students
- Demonstration to supplement the theoretical understanding
- Brain storming/Marathon
- Class room seminars by students

**2.3.4 How is 'learning' made more student-centric? Give a list of participatory learning activities adopted by the faculty that contribute to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.**

For UG & PG Courses learning is made student centric by practicing

- Programs organized and conducted by students themselves under the supervision of the teachers
- Extempore (Pick and speak) competition
- Revision of previous lectures by students
- Interactive session is common in every classroom session
- Scope for clarification of doubts in the classroom session
- The problem oriented subjects are taught in the classroom with collective participation of students
- Brain storming
- Debates/essay competitions/Quiz etc.
- Participatory learning through role play
- Use of internet
- Organizing IT FEST
- Procuring books as per the requirements of the students
- Inviting the chief guests and guests of honour for the functions as per the suggestions made by the students
- Toppers as teachers
- Add on Certificate courses that supplement and compliment regular courses
- Students representations in IQAC, Gymkhana and college forum and subject associations
- The functions like Teachers Day, Freshers Day and Farewell Functions are conducted by students only
- Placement cell conducts CEDOC training programmes on entrepreneurship
- Self-learning through the preparation of assignments, projects, charts, models etc.
- Voluntary participation of students in Swachha Bharath Abhiyan
- Coaching for NET/SLET and Competitive examinations
- Understand civic responsibilities by participating in social activities and camps in villages

### 2.3.5 What is the College policy on inviting experts/people of eminence to provide lectures/ seminars for students?

Every department of the college has its own association to carry out academic and co-curricular activities. All the teaching faculty of the department are members and two senior students are also members of such associations. These associations organize guest lectures in every subject. Resource persons are invited from:

- Research institutes of national level viz JNCASR, IISC, RMRC, NCL etc.
- Universities
- Institutes of higher learning
- Industries
- NGOs
- Organizations involved in social services like Ramakrishna Ashrama, ISKON etc.
- Medical college and health research institutes
- Judiciary, police department, forest department etc.

Experts from these organizations enlighten our students through their lectures on research, higher education, entrepreneurship, civic sense, spiritual awareness, health and hygiene, legal awareness, road safety, environment etc.

College allocates funds to these associations in the beginning of the academic year. Departments are also encouraged to apply for the grants from various funding agencies to carry out the association activities.

### 2.3.6 What are the latest technologies and facilities used by the faculty for effective teaching? Ex: Virtual laboratories, e-learning, open educational resources, mobile education, etc.

For effective teaching, the faculty use the following technologies and facilities

- Use of educational CDs and videos
- Visit to EDUSAT centers
- Wi-Fi internet
- Smart boards
- e – journals
- Delnet
- LCD projectors
- Laptops
- Softwares:
  - UML ( Unified Modelling Language)
  - Web sites:
  - eclipse / GoF Design Patterns
  - Java / AspectJ
  - Notepad++

- GITHub
- PHP
- C# / ASP.Net /VB. Net / Ms Visual Studio 2008
- C / C++
- Unix
- Ms Office / Open Office
- Computers with high end configurations

## 2.3.7 Is there a provision for the services of counselors/mentors/advisers for each class or group of students for academic, personal and psycho-socio guidance? If yes, give details of the process and the number of students who have benefitted.

Yes,

Mentor system is practised by the teaching faculty as mentors. Each mentor is assigned a group of 20-25 students based on the class strength. These mentors are continuously in touch with their students. They monitor the all-round development of their students. The performances of the students in academic, co-curricular and extra curricular activities are recorded and a separate file is maintained. Hidden talents of the students are also recognized and such students are encouraged to exhibit their talent. Mentors also counsel their students and some times arrange for professional counseling if necessary. In simple words mentors are the local guardians of their students.

Apart from this for every class, there is a class teacher who takes care of the entire class. He generally informs the students about various administrative, academic and curricular activities like filling up examination forms, scholarships and bus passes.

Faculty members, student welfare officer, hostel wardens, NCC & NSS officers, chairpersons of women empowerment cell play useful roles in counseling, mentoring and guiding students. At various levels the functionaries lay emphasis on academic, personal and psycho-social counseling of the students.

The practice of above said system has benefitted about 250 students.

## 2.3.8 Are there any innovative teaching approaches/methods/practices adopted/put to use by the faculty during last four years? If yes, did they improve the learning? What methods were used to evaluate the impact of such practices? What are the efforts made by the institutions in giving the faculty due recognition for innovation in teaching?

Yes,

The following innovative methods are used in the process of teaching–learning. These methods enable the students to enhance their learning ability

- Use of technology
    - ICT based teaching
    - Use of smart board
    - Use of softwares
    - Use of Internet
    - Wi-Fi
    - Laptops
    - Mobile education
    - e-journal
    - DELNET
- Interactive teaching
    - Group discussion
    - Quiz /debate/projects/seminars/Assignment
    - Interaction with peers/scientist
    - Brain storming
- Experiential learning
    - Lab. work
    - Field visits/Industrial visits
    - Role play
    - Watch and wonder club
    - Web conference
- Creative learning
    - Models and charts
    - Posters making
    - IT fest
    - Science exhibition
- Problem based learning
    - Problem solving
    - Data analysis

Yardsticks used to evaluate the impact of innovative teaching methods are the performance of students in examinations and their performance in academic competitions like paper presentation, quiz and debates. Such of the teachers who make innovations in teaching are honoured on the occasion of KLE foundation day.

### 2.3.9 How does the college create a culture of instilling and nurturing creativity and scientific temper among the learners?

Efforts are made to instill and nurture creativity and scientific temper among the students on a continuous basis. The following efforts are made in this regard

- Student seminars/projects/field work
- Experimental learning
- Correlate the day-to-day activities with the science principles involved in it

- Debate and quiz on science topics
- PPT competitions
- Interactions with  scientists
- Visit to science centre
- Science exhibition
- ICT based teaching
- Scientific inquisitiveness
- Science workshops
- Writing articles in news papers, magazines etc.
- Web-designing
- Data base management
- Software testing
- Cultural events

**2.3.10 Does the College consider student projects a mandatory part of the learning programme? If so, for how many programmes is it made mandatory?**

**Yes,**

Students' projects are not mandatory for all the courses, however it is mandatory/course /subjects like Chemistry, Electronics, BCA and all PG Programmes

∗ **Number of projects executed within the college**
**Student project within curriculum (UG and PG)     :408**
**Student project beyond curriculum(UG and PG)     :252**

∗ **Names of external institutions associated with the College for student project work.**
      08

∗ **Role of the faculty in facilitating such projects.**
Guidance by the faculty in conceiving the project topic, reviewing the project report etc.

**2.3.11 What efforts are made to facilitate the faculty in learning/handling computer-aided teaching/learning materials? What are the facilities available in the College for such efforts?**

- Arranging training programmes for faculty members by experts as how to use computer aided methods
- Each department is equipped with computer and internet facilities
- ICT based teaching and learning techniques are demonstrated to teachers by the expert in the field
- Use of CDs and software
- Presentation of research papers in power point mode
- Service of technician provided

- Installation of Automatic generator for entire campus to ensure uninterrupted power supply
- Well equipped seminar hall
- Classrooms with LCD projectors and projection screens
- Video clippings
- Experiments by using kits

### 2.3.12 Does the College have a mechanism for evaluation of teachers by the students/alumni? If yes, how is the evaluation used in achieving qualitative improvement in the teaching-learning process?

Yes, we have the mechanism for evaluation of teachers by students and alumni.

For this purpose, we take feedback from students and alumni in a year.

Feedback evaluation committee gets feed back of the teachers from the students, parents, alumni and consolidated reports are submitted to the principal. Principal places the consolidated analysis of feedback in the meeting of the governing body. The Principal/ the Governing body suggest the points for improvement to the concerned teachers. Teachers thereby overcome their shortcomings and show improvement.

### 2.3.13 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If yes elaborate on the challenges encountered and the institutional approaches to overcome these.

No, institution does not face any challenge in completion of syllabi within the planned time frame. Curriculum has always been completed on time.

If some unforeseen holidays intervene in the scheduled calendar of events, extra classes and practicals are conducted on Sundays and holidays. The students may also remain absent to the classes/tests due to their participation in sports, NCC and NSS programmes. Provisions are made to complete the syllabi for such students by engaging special theory classes and practicals.

If any faculty goes on leave, substitute arrangements are made so as not to affect the regular working of the college.

### 2.3.14 How does library resources used to augment the teaching-learning process?

- Issue of books to students for the use at home (PSL, Book Bank, BT-card)
- Additions of 25 computers in the library for the use of students and staff
- e-journal facility is made available

- Enhancement of library working hours as and when needed especially in the months preceding examinations
- Open access(OPAC) to books and journals
- Departmental library facility is also available in all departments
- Addition of books and CDs every year to the library stock
- Photocopy facility at central library

Books and CDs purchased for library.

| Year | No. of books purchased | No. of CDs/ softwares purchased |
|---|---|---|
| **2010-11** | 1035 | 16 |
| **2011-12** | 2815 | 20 |
| **2012-13** | 1823 | 16 |
| **2013-14** | 1435 | 25 |

- Books on competitive exams are available to students and teachers
- Purchase of books on students' recommendations
- Conducive reading environment in library is ensured

The library resources and facilities to the faculty and students indeed augment the teaching-learning process of the college. Positively the time and energy saved due to these facilities are directed towards the enhancement of knowledge and acquiring additional information on the subjects.

**2.3.15 How does the institution continuously monitor, evaluate and report on the quality of teaching, teaching methods used, classroom environments and the effect on student performance.**

- Teaching quality is monitored by HODs, Principal, Management, and Peers
- Feedback from student about teachers performance
- Teacher's self appraisal report and evaluative report of every department is analyzed every year
- Subject wise analysis of results
- Students attendance in class-room
- Class room environment is monitored by the teachers in general and by the class teacher in particular
- Student performance is monitored by the class teachers and mentors

The institution continuously monitors the quality of teaching by the above said methods. The most glaring and conspicuous teaching quality improvement is reflected in the examination results. The quality of teaching is monitored by all the stakeholders. Accordingly it is reflected in the feedback on teachers' performance. The teachers are continuously trying to impart qualitative and quantitative information and the knowledge. Likewise the learners seek guidance from the

mentors in all spheres of their student life. The management of the college provides adequate infrastructure and appoints faculty, so that the most congenial teaching-learning environment is created on the campus. This kind of inter-linked system ascertains positive impact on the students' overall growth.

## 2.4   Teacher Quality

### 2.4.1 What is the faculty strength of the College? How many positions are filled against the sanctioned strength? How many of them are from outside the state?

**Faculty Strength**

| Sl. No. | Sanctioned strength | Existing strength |
|---------|---------------------|-------------------|
| 1 | Regular | 27 |
| 2 | Temporary | 26 |
| 3 | PG(within state) | 06 |
| 4 | PG(outside state) | 02 |

of this existing strength, two are from outside the state.

### 2.4.2 How are the members of the faculty selected?

After seeking the permission from the State Government to appoint teachers against vacant sanctioned posts, the management notifies in local/national news papers and management website for recruitment of the faculty mentioning the eligibility criteria as prescribed by UGC and Government of Karnataka.

The applications are scrutinized and the eligible applicants are called for interview after obtaining permission from the Department of Collegiate Education.

The selection committee constituted as per the guidelines of UGC and Government of Karnataka, conducts the interviews. The candidates who appear for the interview are short listed. After obtaining the approval of the Board of Management and State Government, appointment letters are issued to the selected candidates.

Till the process of filling the sanctioned posts is completed, temporary appointments are made by the management. However for such appointments also, candidates are selected purely on their merit.

### 2.4.3 Furnish details of the faculty

| Highest qualification | Professor | | Associate Professor | | Assistant Professor | | Total |
|-----------------------|-----------|--------|---------------------|--------|---------------------|--------|-------|
|  | Male | Female | Male | Female | Male | Female |  |
| **Permanent teachers** | | | | | | | |
| **D.Sc./D.Litt** | - | - | - | - | - | - | - |
| **Ph.D.** | - | - | 03 | 03 | 01 | - | 07 |
| **M.Phil.** | - | - | 02 | 01 | - | 04 | 07 |
| **PG** | - | - | 12 | 01 | - | - | 13 |

| Temporary teachers (Society Scale) | | | | | | |
|---|---|---|---|---|---|---|
| Ph.D. | 03 | - | | - | - | - | 03 |
| M.Phil. | | | - | - | 03 | 02 | 05 |
| PG | 01 | | - | - | 06 | 19 | 26 |
| Part-time teachers | | | | | | |
| Ph.D. | - | - | - | - | - | - | - |
| M.Phil. | - | - | - | - | - | - | - |
| PG | - | - | - | - | - | 02 | 02 |

**2.4.4 What percentage of the teachers have completed UGC-CSIR-NET, UGC-NET, and SLET exams? In that what percentage of teachers are with PG as highest qualification?**

| Category | Percentage |
|---|---|
| UGC - NET | Nil |
| SLET | 3.3 |
| P.G. | 62.2 |

**2.4.5 Does the College encourage diversity in its faculty recruitment? Provide the following departments-wise details.**

Yes, we are keenly interested in ensuring diversity in recruitment of teachers. While recruiting teachers a wide variety of factors like competence, accent, pronunciation, comfort convenience of stay and travel have to be borne in mind. If teachers are from our college or other K.L.E Society's colleges, they bring along institutional loyalty and pride of working in their almamater.

(UG – B.Sc.)

| Department | % of faculty who are products of the same College | % of faculty from other Colleges within the state | % of faculty from other states | % of faculty from abroad |
|---|---|---|---|---|
| Physics | 40 | 60 | - | - |
| Chemistry | 16.66 | 83.34 | - | - |
| Mathematics | 55 | 41.7 | 3.3 | - |
| Botany | 80 | 20 | - | - |
| Zoology | 80 | 20 | - | - |
| Statistics | - | 100 | - | - |
| Electronics | 50 | 50 | - | - |
| Bio-tech | 66.66 | 33.34 | - | - |
| Comp-Sci | - | 100 | - | - |
| Kannada | - | 100 | - | - |
| English | - | 100 | - | - |
| Hindi | - | 100 | - | - |

**2.4.6 Does the College have the required number of qualified and competent teachers to handle all the courses for all departments? If not, how do you cope with the requirements? How many faculty members were appointed during the last four years?**

Yes, the college has the required number of qualified and competent teachers to handle all the courses of all the departments of the institution. Our management ensures that there is no dearth of teaching or support staff for our college. The following numbers of faculty members were appointed during the last four years.

| Academic Year | No. of faculty appointed |
|---------------|--------------------------|
| 2010-11 | 6 |
| 2011-12 | 5 |
| 2012-13 | 5 |
| 2013-14 | 4 |
| 2014-15 | 3 |

**2.4.7 How many visiting Professors are on the rolls of the College?**

There are two visiting professors on the rolls of the college.

**2.4.8 What policies/systems are in place to recharge teachers? (e.g.; providing research grants, study leave, nomination to national/international conferences/Seminars, in-service training, organizing national/international conferences etc.)**

The institution has the policies of recharging teachers which are as follows

* Deputation of faculty under faculty improvement programme of UGC for completing Ph.D. or M.Phil.
* Nominating teachers to participate/ present papers at the state / national/ international level seminars
* The needy teachers are deputed to attend orientation course/refresher courses conducted by UGC academic staff colleges
* Organizing the state/national/international seminars on the thrust themes
* The college organizes faculty development programmes to motivate and rejuvenate teachers
* Motivating faculty to take up research projects funded by UGC
* Motivating faculty to present and publish research papers
* Motivating the faculty to get research guideship
* Sanctioning of study leave to teachers

**2.4.9 Give the number of faculty who received awards/recognitions for excellence in teaching at the state, national and international level during the last four years.**

Nil

### 2.4.10 Provide the number of faculty who have undergone staff development programmes during last four years (Add any other programme if necessary)

| Academic staff Development programmes | Number of faculty | | | | |
|---|---|---|---|---|---|
| | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 |
| Refresher course | 02 | - | - | - | 01 |
| HRD programmes | - | 01 | 58 | 58 | 60 |
| Orientation programmes | - | - | - | - | - |
| Staff training conducted by the college | | | 58 | 58 | 60 |
| Staff training conducted by University/other colleges | - | - | - | - | - |
| Summer/winter schools, workshops, etc. | - | - | - | 02 | 60 |
| Any other | - | - | - | 02 | RUSA-03, Others -02 |

### 2.4.11 What percentage of the faculty have

* been invited as resource persons in Workshops/ Seminars/ Conferences organized by external professional agencies
  4.9%
* participated in external Workshops / Seminars / Conferences recognized by national / international professional bodies
  34.4%
* presented papers in Workshops / Seminars/Conferences conducted or recognized by professional agencies
  3.3%
* teaching experience in other universities/ national institutions and others
  8.3%
* industrial engagement
  NIL
* international experience in teaching
  2.5%

Faculty Participation

| Categories | 2010-11 | | | 2011-12 | | | 2012-13 | | | 2013-14 | | | 2014-15 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NS | IC | SW | NS | IC | SW | NS | IC | SW | NS | IC | SW | NS | IC | SW |
| Attended | 15 | - | 22 | 41 | 2 | 13 | 8 | 01 | 71 | 10 | - | 31 | 40 | 3 | 66 |
| Paper presented | 09 | 04 | 2 | 1 | 04 | 03 | 04 | 02 | - | 08 | 01 | 03 | 09 | 02 | - |
| Resource person | - | - | 2 | - | - | 5 | - | - | - | - | - | 2 | 01 | - | - |

NOTE:   NS –National Seminar, IC – International Conference, SW – State level workshop

Faculty Attended Conferences/Seminar



Total no. of participants: 323

### 2.4.12 How often does the College organize academic development programmes for its faculty, leading to enrichment of teaching-learning process?

∗ **Curriculum development –** Once in a year

In the meeting of Board of Studies, it is discussed to upgrade the syllabus from time to time. All the faculty members of each department are the members of the Board of Studies and they contribute towards the curriculum design and development. And also in the subject forum meeting, suggestions received are considered/incorporated in the curriculum. Syllabus revision workshops are organized. Various departments organize seminars/workshops

∗ **Teaching – learning methods -** Continuous

Faculty members participate in state level workshops, national level seminars/conferences, in subject forum and take up major/minor research projects. The knowledge thus gained will be used in the process of teaching- learning.

∗ **Examination reforms –** Need based

The college adopts the following strategies for examination reforms.

- Coding and decoding of papers
- Double valuation(Internal and External)
- Third valuation system
- Review valuation
- Issue of photo copy of examination papers
- Declaration of Results within 15 days on college website
- Valuation process under CCTV surveillance
- Transparent evaluation process

* **Content/knowledge management –** Need based
    Every year the college procures new editions of books/ CDs/softwares which help the faculty members to update their subject knowledge and prepare the quality study materials.
* **Any other (specify) – Guest lectures:**Need based
    College arranges training programmes for the faculty members in computer literacy and use of technical e-devices every year.

## 2.4.13 What are the teaching innovations made during the last five years? How are innovations rewarded?

- ICT based teaching
- Use of softwares
- Projects, involving students in them
- Experiential learning
- Role models, Role play, Use of Models
- Learning by doing
- Topper as a teacher
- Demonstration of experiments by the students to their batchmates
- Pick & speak (Extempore)
- Engaging the classes of UG by PG students

    Rewards: Innovations in teaching methodology are recognized and rewarded by our society's management on the K.L.E. Foundation day

    These methods are also rewarded in the form of good results and vertical mobility.

## 2.4.14 Does the College have a mechanism to encourage

* **Mobility of faculty between institutions for teaching?**
* **Faculty exchange programmes with national and international bodies?**
    **If yes, how have these schemes helped in enriching quality of the faculty?**

    Yes, there is mobility of faculty between institutions and also faculty exchange programs

- Inter and intra staff exchange programmes between K.L.E Colleges is in place
- Our P.G. faculty visit international bodies for academic activities.
- Availability of experts for the benefit of learners
- Teacher – teacher interaction leads to improved teaching ability of our faculty
- Teacher – student interaction leads to better learning experience for the students of our college

### 2.5 Evaluation Process and Reforms

**2.5.1 How does the College ensure that all the stakeholders are aware of the evaluation processes that are operative?**

The college ensures that all the stakeholders are aware about evaluation processes that are operative in our college

- During pre-admission counseling the students and their parents are explained about the evaluation process
- During orientation programme in the beginning of the academic year all the rules and regulations of the college and the evaluation system are explained to the students
- The college prospectus and handbook given to all the students contain this information
- Our college website has all the required information.
- During parents meetings, evaluation process is explained
- During Alumni meetings, it is briefed
- Mode of evaluation, revaluation and Review valuation, grace marks rules etc. are available in the college regulations
- The schedule of tests and Semester End Examination is mentioned in the calendar of events of the college

**2.5.2 What are the major evaluation reforms initiated by the College and to what extent have they been implemented in the College? Cite a few examples which have positively impacted the evaluation management system?**

The major evaluation reforms initiated by the college are as follows:

- Continuous Internal Assessment
- Bar coding of answer book
- Double Evaluation by internal & external examiners of each answer sheet
- Third valuation in the event of difference between internal and external evaluation exceeding 11 marks
- Review valuation facility
- Issue of photocopy of answer scripts on demand by students
- Setting of question papers by internal and external examiners
- Declaration of Results within 15 days of conclusion of examinations on college website
- Valuation process under CCTV surveillance
- Transparent evaluation process
- Online submission of internal assessment and practial marks

These evaluation reforms are an outcome of autonomous system that provides freedom to college authorities to adopt and implement constructive and meaningful reforms in the academic field. Our

autonomous system's evaluation reforms like setting of question papers by internal as well as external examiners, bar coding of answer scripts, double evaluation by internal and external examiners, issue of photocopy of answer scripts are some of the reforms that lead to transparency in the evaluation processes of our college. This kind of evaluation management system has immense positive impact on the quality and enrollment of the students. The parents have reposed lot of confidence in the academic standard of our institution, hence the students seek admission in our autonomous college.

### 2.5.3 What measures have been taken by the institution for continuous evaluation of students and ensuring their progress and improved performance?

U.G./P.G Course:

For continuous evaluation of students, the class teacher and mentors closely monitor the progress of the students. They guide them in their studies and other co-curricular activities. Semester system is followed. Two internal tests are conducted. One practical internal test is also conducted. In each semester there is a provision for improving the performance in internal assessment whenever a student scores less than 09 marks. In addition, assignments/projects/seminars are compulsory for every student. 85% attendance is mandatory. After first internal test, slow learners and advanced learners are identified. Accordingly Remedial classes and Enrichment classes are conducted for such students.

### 2.5.4 What percentage of marks is earmarked for continuous internal assessment? Indicate the mechanism strategized to ensure rigour of the internal assessment process?

Evaluation system for theory and practicals: internal assessment 30% weightage Semester End Exam:70% weightage U.G./ P.G. Course(Theory) for continuous internal assessment the percentage of marks, earmarked is 30% i.e. 30 marks out of total of 100 marks for each paper of each semester. The breakup is as follows
- 10 marks – I – Test (Conducted for 30 marks, reduced to 10)
- 15 marks – II – Test(Conducted for 45 marks, reduced to 15)
- 05marks – project/home assignment/seminar/group discussion
- Scoring Minimum 9 marks out of 30 in internal assessment is mandatory. Otherwise he/she is not allowed to appear for semester end examination
- U.G./P.G. Course(Practical)
  In addition there are internal practical tests also. Practicals by students are supervised and marks awarded by practical examiners
- For One Practical internal test 15 marks are allotted for B.Sc. course

- For One Practical internal test 30 marks are allotted for B.C.A. and PG - Physics and MCA
- Allotment of internal theory and practical marks is closely supervised by the heads of departments and cross checked by the principal of the college
- For students remaining absent in internal tests due to some valid reasons, the principal may permit them to appear for an extra test
- All the valued answer scripts of internal test are shown to the students to maintain transparency

**Certificate Course:**
- Examination of 50 marks is conducted at the end of the course

### 2.5.5 Does the College adhere to the declared examination schedules? If not, what measures have been taken to address the delay?

Yes, as per schedule examinations are conducted.

### 2.5.6 What is the average time taken by the College for declaration of examination results? Indicate the mode / media adopted by the College for the publication of the examination results e.g., website, SMS, email, etc.

- Within 15 days after completion of examination the results are declared
- Modes/media of publication
  - College website: Results are hosted on college website
  - Results are sent to each candidate through SMS
  - News paper: Announcement is made in news papers about declaration of results and their availability on college website

### 2.5.7 Does the college have an integrated examination platform for the following processes?

- ∗ **Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.**

  Yes, we have the integrated examination platform. The procedure is as follows:
  - Time table, student list, hall tickets, attendance sheet, seating arrangement, marks cards are generated in the MIS
  - Time table is prepared by the office of Controller Of Examination (COE) and finalized in the meeting of HODs
  - After the deadline for enrolment of candidates for examination is over, the office of COE prepares a list of candidates appearing for examination, subsequently invigilators and squad members are appointed

- In the mean time preparations are made to get the question papers set, scrutinized and draft printed copies which will be in two sets for each subject
- The proof reading of draft copies is carefully made and all sets of question papers are finalized
- The COE selects one among the two sets of question papers kept in his custody, and initiates the process of taking required number of copies, sealing and securing the same

∗ **Examination process – Examination material management, logistics.**

- Sealed question paper packets are sent to the examination blocks 15 minutes prior to the commencement of examination
- After taking the signatures of five students in each block, the sealed cover containing question papers is opened and then distributed to the students
- The invigilators verify the admission tickets and obtain the signatures of the candidates present in the block. After 30 minutes no candidate is allowed to enter the examination hall
- The invigilator prepares a list of absentees and sends the list with unused answer scripts and question papers to the senior supervisors
- Examination squad consist of faculty members from other colleges. Malpractices if any, are booked and subjected to enquiry and actions are initiated. Such cases have not been reported so far
- At the end of examination room invigilators collect answer scripts and hand over to the senior supervisors and then the answer scripts are sent to office of COE who in turn arranges for coding and valuation

∗ **Post examination process – attendance capture, OMR based examination result, auto processing, generic result processing and certification**.

- After the examination answer scripts are coded and arrangements are made for valuation
- We have central valuation system in which the answer scripts are valued twice independently by internal evaluator and external evaluator. The average of the two valuations is taken
- Marks statement is generated in the MIS
- The third valuation of answer scripts is made in case the difference between first and second evaluation is more than 15% marks. The average of nearest two valuations is finally awarded in such cases
- Entries in the marks lists are posted to the coded list in the MIS
- Result is generated by the MIS
- After the announcement of the result applications for revaluation, photocopy and review valuation are entertained within seven days
- Marks register is submitted to the parent university for their records

### 2.5.8 Has the College introduced any reforms in its Ph.D. evaluation process?

- Ph.D. programs of our college are managed by our affiliating university
- As per the Guidelines of Parent University

### 2.5.9 What efforts are made by the College to streamline the operations at the Office of the Controller of Examination? Mention any significant efforts which have improved process and functioning of the examination division/section?

- Bar coding of answer scripts
- Online test/examination for BCA students
- Digital Assessment of answer scripts by using OMR scanner: Answer scripts of Indian Constitution, Human Resource and Environment Studies, Personality Development and Communication skills, Computer Applications and Technical Communication Ethics are digitally evaluated
- Phased automation of examination process
- Decentralization of examination related tasks
- Updating the examination softwares
- Incorporation of more e-security measures
- Uploading the provisional results on college website to ensure transparency

Due to these streamlining efforts at the office of the controller of the examinations, utmost secrecy is maintained. For BCA course, the commencement of online test has its own advantages. At the first instance, it saves time and secondly it is paperless evaluation. Transparency in all the examination related activities is the worthy note of our systems at the office of the Controller of Examinations.

### 2.5.10 What is the mechanism of redressal of grievances with reference to evaluation?

- Suggestion Box is provided in the examination Section
- Examination section responds immediately in addressing the grievances of the students
- Issue of photocopies of answer scripts to students who may have grievances about marks allotted
- Review evaluation facility to the students who may have grievances about marks scored by them
- Grievances like wrong printing of names or surnames or initials are immediately redressed by COE's office
- Grievances regarding internal assessment are also taken care of by the examination committee

## 2.6    Students Performance and Learning Outcomes

### 2.6.1  Does the College have clearly stated learning outcomes for its programmes? If yes, give details on how the students and staff are made aware of these?

Yes, the college has clear learning outcomes for its programs:

- Teachers regularly inform the students about various courses/options for higher learning or job opportunities
- Feed back from alumni and experts opinions during their interaction are incorporated in designing the syllabus
- A copy of course contents with the learning outcomes is made available to the students at the library for their reference

Even before seeking admission in our college the students are fully aware of the programmes and their outcomes in the career of the student. We have very transparent system of making aware of the syllabi whether in the basic degree course or certificate course. The teaching staff takes active part in framing the syllabi. Hence, they are fully conversant with the same. In our autonomous system due to freedom of the choice of subjects and framing of the syllabi, the stakeholders including the parents also are aware of the syllabi and also the relevance of it to the demand of the market.

### 2.6.2  How does the institution monitor and ensure the achievement of learning outcomes?

- Monitoring students learning outcomes by analyzing examination result at the end of each semester makes it possible for teacher to devise corrective action wherever necessary. This ensures enhancement of the performance of the students in the examination
- Expected learning outcomes include analytical skills and higher order thinking, model question papers make sure that analytical and application types of questions are included in the question paper to test the learning outcomes
- The student centric teaching and learning methods ensure the achievements of learning outcomes

### 2.6.3 How does the institution collect and analyze data on student learning outcomes and use it for overcoming barriers of learning?

- Failure in achieving learning outcome on the part of a student is measurable in terms of his inability to meet academic requirements i.e. marks scored in IA and Semester End Examinations
- After identification of this shortfall the student is helped with remedial coaching, individualized academic counseling and opportunities for make-up test

- Input from academic peers and other stakeholders give insight into the learning outcomes. These inputs are positively considered carefully while developing curriculum and restructuring the teaching learning mechanism

## 2.6.4 Give Programmme – wise details of the pass percentage and completion rate of students.

### May 2014 Examination Results

| Sl. No. | Programme | No of students appeared | Distinction | I-Class | II-Class | Pass-Class | Fail | % of passing |
|---------|-----------|-------------------------|-------------|---------|----------|------------|------|--------------|
| 1. | B.Sc. | 165 | 91 | 25 | -- | 22 | 27 | 83.63 |
| 2. | B.C.A | 76 | 28 | 27 | 02 | 14 | 05 | 93.00 |
| 3. | M.Sc. (Physics) | 28 | 08 | 16 | -- | -- | 04 | 85.71 |
| 4. | M.Sc. (Mathematics) | 29 | 09 | 15 | 02 | | 03 | 89.65 |

### Compliance of future plans formulated at the time of reaccreditation in 2010

| Sl. No. | Plans Unveiled at the time of second cycle accreditation | Compliance |
|---------|----------------------------------------------------------|------------|
| 1. | 'Watch and Wonder' club | Arranged observation of the Moon by using 'Cassi Grain Telescope' on 12th Feb. and 13th Mar. 2014. The public of Belagavi city has observed it |
| 2. | Physics Department | Organized two national level seminars. on<br>1. "The New frontiers of Nanotechnology in Material Science" in 2010- 11<br>2. "Nano materials and their applications on 13th and 14th March. 2012" |
| 3. | Chemistry Department | Started four certificate courses |
| 4. | Starting of PG courses | 3 PG courses in Physics, Mathematics and Master of Computer Applications have been started |
| 5. | Botany Department | Added more number of specimens in the museum |

## CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

### 3.1  Promotion of Research

### 3.1.1 Does the College have a research committee to monitor and address the issues of research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.

Yes, the college has a research committee; its composition is as follows:

| Sl. No. | Name with Designation | Position |
|---------|----------------------|----------|
| 1 | Prin. V. G. Astagi | Chairman |
| 2 | Dr.(Smt.) S. N. Banasode | Coordinator |
| 3 | Dr. R. G. Kulkarni | Member |
| 4 | Dr. M. S. Chaudhary | Member |
| 5 | Dr. C. S. Manjarekar | Member |
| 6 | Dr. B. N. Sunkad | Member |
| 7 | Dr. P. B. Bendigeri | Member |
| 8 | Dr. B. G. Bevinakatti | Member |
| 9 | Dr.(Smt.) V. R. Naik | Member |
| 10 | Dr.(Smt.) J. S. Kawalekar | Member |
| 11 | Dr. R. S. Hiremath | Member |
| 12 | Shri S. Kotrappa | Member |

Research committee ensures quality research as it monitors, promotes and addresses the various research activities.

**Objectives:**
- To provide information and research guidance to teaching staff about various funding agencies
- To encourage interdisciplinary research

**Recommendations:**
- To motivate the faculty and students to publish articles in National and International research journals
- To ensure release of funds from the funding agencies to carry out the sanctioned research projects
- Encouraging the conduct of workshops/ seminars/ conferences from time to time on thrust areas.
- Motivating the faculty to participate and present papers in the seminars/conferences/workshops
- Guiding the students to organize/participate in science exhibition and to present research papers in seminars/ conferences/workshops
- Providing opportunities to the students to interact with National/ International scientists
- To recommend various scientific journals
- To encourage the staff members to take up research projects, pursue M.Phil., Ph.D. programmes and appear for NET/SLET exams

**Impact on the recommendations and their implementations:**
- **Fifty-seven** research articles have been published by the faculty in National and International research journals and two books have been published by the faculty
- **Two** students have published research papers in International journal
- UGC grants of ₹43, 45,109/- have been sanctioned out of which ₹32, 28, 772/- have been released and utilized
- **Eleven National** conferences/seminars/IT fests and **twenty four** state level workshops/seminars were conducted

- Our faculty members have participated in **Three hundred twenty three** seminars/conferences/workshops and **fifty two** papers have been presented by our faculty in the seminars/conferences/ workshops
- **Forty-eight** students participated in science exhibition and **thirty nine** papers presented by the students in seminars/ conferences/ workshops
- **One** of our students attended National science camp held at IISc, Bengaluru and interacted with eminent scientists
- **Nine** Collaborations are established and **nine** interdisciplinary research activities have been carried out
- The impact of various research activities is vividly seen in the teaching- learning process

**3.1.2 What is the policy of the College to promote research culture in the College?**

**Policy of the college:**
- To make Research an integral part of teaching –learning process
- Provide the faculty and students with well-equipped research laboratory possessing advanced instruments like: Flame-Photometer, UV-Spectrophotometer, Gel-Electrophoresis, UV-Transilluminator, Autoclave, Rotary Shaker, Research Microscopes, Muffle furnace, Geiger-Muller Counter, Electron spin resonance spectrometer, Gamma ray spectrometer etc.
- Promote research activities along with the curriculum for UG and PG students
- Facilitate the staff to avail UGC sponsored faculty development programmes for their Ph.D. and Post Doctoral work
- Provide TA/DA & duty leave for research paper presentation in National and International seminars/ conferences
- Facilitate the faculty and students with library enriched with research journals, Theses and reprographic facility
- Assign research projects to UG and PG students
- Provide seed money to the students to carry out research projects
- Opportunity to the students to interact with National/International scientists to inculcate scientific temper in them
- To felicitate the staff and students on their achievements in the field of research

### 3.1.3 List details of prioritized research areas and the areas of expertise available with the College.

Details of prioritized research areas and areas of expertise available with the college are:

| Sl. No. | Department | Prioritized research areas | Area of Expertise |
|---|---|---|---|
| 1 | Physics | • Material Science<br>• Spectroscopy<br>• Electronics | • Material science and nuclear physics<br>• Spectroscopic Study of some Organic Compounds<br>• Simulation of Active & Passive Filters<br>• Study of Spectroscopic Molecules<br>• Semiconductor Devices<br>• Study of Ferrites |
| 2 | Chemistry | • Microbiology<br>• Environmental science<br>• Surface chemistry<br>• Organic chemistry | • Biodegradation studies<br>• Ambient Air Quality of Belagavi City<br>• Ecofriendly Medicines<br>• Study of Adsorption<br>• Water /Soil Analysis<br>• Effect of Environmental factors on concrete<br>• Pharmaceutical study of Pyrazole analogues<br>• Study of Simple Heterocyclic Derivatives |
| 3 | Mathematics | • Real analysis<br>• Number theory<br>• Topology | • Integral transforms and distribution theory<br>• Lattice theory<br>• Generalized minimal closed sets<br>• Advanced Study in General & Fuzzy Topology<br>• Operations & Bi-operations in topological Spaces<br>• Recent Studies in General & Fuzzy Topology |
| 4 | Statistics | • Statistical Survey | • Socio-Economic Conditions of Senior Citizens of Belagavi city |
| 5 | Botany | • Histochemical studies<br>• Environmental Science<br>• Pharmaceutical studies | • Ontogeny and histochemical studies on anther<br>• Noise pollution<br>• Phytochemical Screening |
| 6 | Zoology | • Life science | • Biodiversity<br>• Aquatic Toxicology<br>• Ornithology |
| 7 | BCA | • Software evolution | • Aspect Oriented Programming |
| 8 | English | • Literature | • Communication skills<br>• Translation writing skills |
| 9 | Kannada | • Literature | • Translation writing skills |
| 10 | Hindi | • Literature - Drama | • Dr Shankarshaish Aur Girish karnad ke Natako ka Tulanatmak Adyayan |

### 3.1.4 What are the proactive mechanisms adopted by the College to facilitate smooth implementation of research schemes/ projects?

∗ **Advancing funds for sanctioned projects :** Allotment of funds for the sanctioned projects as per their requirement/ progress of the research work

∗ **Providing Seed Money:** Seed money is provided to the students at the initial stage of the projects and on completion of the projects and it is also provided for science exhibition models

∗ **Autonomy to the Principal Investigator/ Coordinator for utilizing overhead charges:** Principal Investigators are given freedom to carry out research projects and can use the overhead charges sanctioned by the funding agency as per project requirements

∗ **Timely release of grants:** Necessary Measures are taken to release sanctioned funds on time and the college office takes up the entire responsibility of processing the accounts, preparation of expenditure statement and getting it audited

∗ **Timely auditing:** Immediately after the completion of the project the expenditure statement is audited

∗ **Submission of utilization certificate to the funding authorities:** The college submits audited utilization certificate to the funding agencies on time

Apart from the above, the college provides necessary infrastructural facilities like well-equipped laboratory, Wi-Fi facility etc. for timely completion of research schemes/projects.

### 3.1.5 How is interdisciplinary research promoted?

∗ **Between/among the different departments of College:**

The interdisciplinary research is promoted by encouraging and motivating the faculty of different disciplines to collaborate on the topics that involve more than one discipline, such as: Department of Chemistry, Physics and Zoology are involved in interdisciplinary research projects with the Departments of Statistics, Mathematics and Biotechnology.

∗ **Collaboration with National/ International institutes/ Industries**

Some of the departments are collaborating for their research work with:

- Regional Medical Research Center, Belagavi
- The Oxygen Gas private Ltd. Kakati
- INSPIRE Group, Dharwad
- Kanheri Education ( IT Company), Dharwad
- Delnet
- Department of library of  Dr. M. S. Sheshgiri College of Engineering & Technology, Belagavi
- Department of library of K.L.E University, Belagavi

- Department of library of B. M. Kankanwadi Ayurvedic college, Belagavi
- Optimus Herbal Extracts, Belagavi

### 3.1.6 Enumerate the efforts of the College in attracting researchers of eminence to visit the campus and interact with teachers and students?

The Institution encourages the faculty members to invite eminent researchers and academicians to visit the college and interact with teachers and students. The college allocates funds to every department which has its own Association/Forum, to organize guest lectures, seminars and various competitions.

### 3.1.7 What percentage of faculty has utilized sabbatical leave for research activities? How has the provision contributed to the research quality and culture of the College?

- Sabbatical leave facility is available. However in these four years no faculty has availed it

### 3.1.8 Provide details of national and international conferences organized by the college highlighting the names of eminent scientists / scholars who participated in these events.

**Department of Physics**
**2010-11**

| Nature & topic of the conference | Names of eminent scientists/ scholars |
|---|---|
| **National Level Conference The New frontiers of Nanotechnology in Material Science** | **1. Dr. Stefan Heun** Senior Scientist, NEST Pisa, ITALY. **2. Prof. S. M. Shivaprasad,** Jawaharlal Nehru Center for Advanced Scientific Research, Bengaluru **3. Prof. G. U. Kulkarni** Jawaharlal Nehru Center for Advanced Scientific Research, Bengaluru **4. Prof. M. Eshwarmoorthy,** Jawaharlal Nehru Center for Advanced Scientific Research, Bengaluru **5. Prof. N. Chandrabhas**, Jawaharlal Nehru Center for Advanced Scientific Research, Bengaluru **6. Prof. Jayanta Haldar**, Jawaharlal Nehru Center for Advanced Scientific Research, Bengaluru **7. Prof. D.H.Rao,** Principal, Jain College of Engineering, Belagavi |

## 2011-12

| Nature & topic of the conference | Names of eminent scientists/ scholars |
|---|---|
| **National level conference on "Nano Materials and their applications"** | 1. **Dr. R. G. Kulkarni**, Former chairman, Department of Physics, Sourashtra University, Gujrat<br>2. **Dr. Meenal Koushik**, Asst. Professor, Biological Sciences, BITS Pilani, Goa Campus, Goa<br>3. **Dr. Pramod Patil**, Coordinator, School of Nanoscience and Technology, Shivaji University, Kolhapur<br>4. **Dr. S. H. Bhosale**, HOD Physics, Shivaji University, Kolhapur<br>5. **Dr. N. S. Sankeshwar**, Former Chairman, Department of Physics, Karnatak University Dharwad |

## Department of Chemistry
### 2010-11

| Nature & topic of the conference | Names of eminent scientists/ scholars |
|---|---|
| **National level conference on "Eco Friendly Chemicals"** | 1. **Dr K. S. Rane**, Former Chairman, Department of Chemistry, Goa University, Goa<br>2. **Dr G S Gokavi** Department of Chemistry, Shivaji University, Kolhapur<br>3. **Dr Shreeshailappa Badami** Siddaganga College of Pharmacy, Tumkur<br>4. **Dr V. P. Veerapur** Siddaganga College of Pharmacy, Tumkur |

## Department of Mathematics

| Nature & topic of the conference | Names of eminent scientists/ scholars |
|---|---|
| **NationalConference on Recent Analysis and Applications in Discrete Mathematics** | 1. **Dr. Vittal Rao R**, Former Chairman, Department of Mathematics IISc and Consultant, DESE, IISc, Bengaluru<br>2. **Smt. Usha Shastri** Senior Scientist – G, ISRO, Bengaluru<br>3. **Dr. S.S.Bhoosnurmath** Honorary Professor and PI-DST Project, Department of Mathematics, Karnataka University, Dharward |

| | 4. **Dr. S. K. Nimbhorkar**<br>Professor,<br>Department of Mathematics, Dr.Babasaheb<br>Ambedkar Marathwada University, Aurangabad,<br>Maharashtra<br>5. **Dr. B.N.Waphare**<br>Professor,<br>University of Pune, Pune<br>6. **Dr. D.T.Shirke**<br>Professor,<br>Department of Statistics, Shivaji<br>University, Kolhapur<br>7. **Dr Kishore Kuchhe**<br>Department of Mathematics, Shivaji University,<br>Kolhapur |
|---|---|

## 2014-15
## Department of Botany, Zoology and Biotechnology

| Nature & topic of the conference | Names of eminent scientists/ scholars |
|---|---|
| **National Seminar on Climate Change & its impact on Biodiversity** | 1. **Shri V. N. Misale**<br>Senior Scientist-G,<br>ISRO, Bengaluru<br>2. **Dr. Prakash V Diwan**<br>Former Director Grade Scientist,<br>IICT. Hyderabad<br>3. **Dr. Niranjana Chavan**<br>Professor,<br>Department of Botany, Shivaji University, Kolhapur.<br>4. **Dr. Laxmi Inamdar**<br>Chairman,<br>Department of PG Studies in Zoology, Karnatak University, Dharwad<br>5. **Dr Ramesh Kumar. M. R**.<br>Chief Scientist-G<br>CSIR-National Institute of Oceanography, Goa<br>6. **Dr. T C Taranath**<br>Chairman,<br>Department of PG Studies in Botany Karnatak University, Dharwad |

## Department of BCA

| Year | Nature & topic of the conference | Names of eminent scientists/ scholars |
|---|---|---|
| **2010-11** | Two day National level IT Fest "IT ERA 2K10 Green ICT" | 1. **Prof Ravindra Dastikop**,<br>SDMCET Dharwad.<br>2. **Mr. Vishwanath S Pattenshetti**<br>Senior System Analyst,<br>IBM India Pvt. Ltd. Belagavi.<br>3. **Dr. D. H. Rao**<br>Director,<br>Jain Group of Industries Belagavi |

| Year | Event | Resource Persons |
|---|---|---|
| **2011-12** | Two day National level IT Fest "IT ERA 2K11, LAMP | **1. Mr. M.K.Banga**<br>   General Manager,<br>   WIPRO, Bengaluru<br>**2. Prof Ravindra Dastikop**<br>   SDMCET Dharwad.<br>**3. Mrs. Swati Parikhi**<br>   IMS, Belagavi. |
| **2012-13** | Two day National level IT Fest "IT ERA 2K12, Innovation Beyond Fanatacy | **1. Shri. Sunil Koshy**<br>   Vibhinna creation, Bengaluru<br>**2. Dr. Ameet Patil ,**<br>   Spandan Software Pvt. Ltd, Belagavi<br>**3. Dr. Basavaraj  S. Anami**<br>   Principal,<br>   KLE's Institute of Technology Hubli,<br>**3. Prof. S. Kotrappa**<br>   Co-ordinator,<br>   KLE's College of BCA |
| **2013-14** | Two days National level IT Fest "IT ERA 2K13, Loon for all" | **1. Ms. A.Preethi,**<br>   Learning & Development Officer,<br>   School of Excellence, Chennai.<br>**2.  Mr.Ramani Venkat,**<br>   Director,<br>   Varnaaz Leader Factory, Bengaluru.<br>**3. Mr.Pravin Hanchinal,**<br>   Co-founder,<br>   CEO INSPIRE-Groups, Dharwad<br>**4. Mr.Taha M Asadullah,**<br>   Geelani Consultancy and Solution,<br>   Google Developers Group Dharwad.<br>**5. Mr.Ajit Patil.**<br>   CEO,<br>   Credence Information Service Belagavi |
| **2014-15** | Two day National Level IT fest "IT ERA 2K15 Web Using FOSS" | **1. Mr.Ramani Venkat,**<br>Director,<br>Varnaaz Leader Factory, Bengaluru.<br>**2. Mr.Pravin Hanchinal,**<br>Co-founder,<br>CEO INSPIRE-Groups |

**2014-15**

**Department of Hindi**

| Nature & topic of the conference | Names of eminent scientists/ scholars |
|---|---|
| **National level seminar on "Pandit Makhanalal Chaturvedi Sahitiyi Ka Rastriya Sangoshti"** | 1. **Dr. Chaya Patil** <br> Head of Department of Hindi, <br> D.K.A.S.C. College, Ichalkaranji <br> 2. **Dr. Prabha Bhat** , <br> Head of Department of Hindi, <br> Karnatak University, Dharwad <br> 3. **Dr. V. R. Devgiri**, <br> Secretary, <br> Karnataka Hindi Prachar Samiti, Bengaluru <br> 4. **Dr. V. B. Hebballi**, <br> Rtd. Principal, <br> S. Nijalingappa College, Bengaluru <br> 5. **Dr. Dhanya kumar Birajdhaar** <br> Head of Department of Hindi, <br> Haribhai Devakaran College, Solapur |

## 3.1.9 Details on the College initiative in transferring/ advocating the relative findings of research of the College and elsewhere to the students and the community (lab to land)

- Minor research project has been carried out by our faculty member on Ambient air quality of Belagavi city and the data is given to the Karnataka State Pollution Control Board, Belagavi to take the necessary measures
- Soil testing helps the farmers
- Water analysis helps the community
- Research on food adulteration provides a solution to the dairy products
- Herbal sample analysis helps the industry

## 3.1.10 Give details on the faculty actively involved in research (Guiding students' research, leading research projects, engaged in Individual or collaborative activity etc.)

- **Guiding student's research: 23**

| Sl. No. | Name of the faculty | Department | No. of Ph. D students guided/ guiding | No. of M. Phil guided/ guiding |
|---|---|---|---|---|
| 1 | Dr. R. G. Kulkarni | Physics | 03 | - |
| 2 | Dr. M. S. Chaudhary | Mathematics | 07 | - |
| 3 | Dr. C. S. Manjarekar | Mathematics | 03 | - |
| 4 | Dr. (Smt) S. N. Banasode | Mathematics | 08 | - |
| 5 | Dr R. S. Hiremath | Hindi | - | 02 |

- **Leading research projects: 660**
  **Students' Projects: Curriculum (UG)** : 384
  **Students' Projects: Curriculum (PG)** : 24
  **Students' Projects: Beyond the Curriculum (UG)Total: 221**
  **Students' Projects: Beyond the Curriculum (PG)Total : 31**

### Students' Projects: Curriculum (UG)

| Department | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | Total |
|---|---|---|---|---|---|---|
| **Chemistry** | 01 | 01 | 02 | 05 | 02 | **11** |
| **Zoology** | 06 | 05 | 06 | 05 | 06 | **28** |
| **Botany** | - | - | - | 03 | 05 | **08** |
| **BCA** | 79 | 39 | 76 | 80 | 59 | **333** |
| **Electronics** | - | - | - | - | 04 | **04** |
| **Total** | **86** | **45** | **84** | **93** | **76** | **384** |

### Students' Projects: Curriculum (PG)

| Department | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | Total |
|---|---|---|---|---|---|---|
| **Mathematics** | | - | 06 | - | - | **06** |
| **Physics** | - | 04 | 04 | 04 | 04 | **16** |
| **MCA** | - | - | - | - | 02 | **02** |
| **Total** | | **04** | **10** | **04** | **06** | **24** |

## Students' Projects: Beyond the Curriculum (UG)

| Department | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | Total |
|---|---|---|---|---|---|---|
| **Chemistry** | 01 | 01 | 01 | 02 | 07 | **12** |
| **Mathematics** | 08 | 09 | 12 | 11 | 15 | **55** |
| **Physics and Electronics** | 04 | 04 | 04 | 04 | 04 | **20** |
| **Botany** | 05 | 06 | 21 | 17 | 20 | **69** |
| **Zoology** | 02 | 02 | 02 | 02 | 02 | **10** |
| **Biotechnology** | 04 | 04 | 05 | 03 | 05 | **21** |
| **Statistics** | - | 01 | 01 | 03 | 04 | **9** |
| **English** | 04 | 05 | 05 | 05 | 06 | **25** |
| **Total** | **28** | **32** | **51** | **47** | **63** | **221** |

## Students' Projects: Beyond the Curriculum (PG)

| Department | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | Total |
|---|---|---|---|---|---|---|
| **Mathematics** | - | - | - | 07 | 08 | **15** |
| **Physics** | - | 04 | 04 | 04 | 04 | **16** |
| **Total** | **-** | **04** | **04** | **11** | **12** | **31** |



- **Engaged in Individual or collaborative activity**

| Sl. No. | Title of students project | Faculty guided | Funding agency |
|---|---|---|---|
| 1 | "Preliminary Phytochemical Investigations on roots of *Nerium* oleander. Linn" | Dr.(Smt) J.S.Kawalekar Dept. of Botany | VGST Bengaluru |
| 2 | Biogas as an alternative source of energy | Dr. P.B. Bendigeri Dept. of Botany | Self |
| 3 | Prediction of rainfall | Smt. S. S. Chobari Dept. of Statistics | Self |
| 4 | Water analysis | Dr. B. G. Bevinakatti Dept. of chemistry | Self |

| 5 | Soil Testing | Dr. B. G. Bevinakatti Dept. of chemistry | Self |
|---|---|---|---|
| 6 | Fuzzy Set Theory | Dr.(Smt) S. N. Banasode Dept. of Mathematics | Self |
| 7 | Viewership of TV channels | Smt. S. S. Chobari Dept. of Statistics | Self |
| 8 | Co-relation between income and expenditure of staff members of our campus | Smt. S. S. Chobari Dept. of Statistics | Self |
| 9 | Analytical study of air pollutants of Belgaum city- A case study. | Shri N. B. Gokavi Dept. of chemistry | Self |
| 10 | Wetlands | Dr. (Smt) V. R. Naik Dept. of Zoology | Self |
| 11 | Adulteration of milk and its effect | | |
| 12 | Endemic and migratory birds | | |
| 13 | Ecotoxicology | | |
| 14 | Evolutionary development in biology | | |
| 15 | Effect of Pesticides on rice crop | | |
| 16 | An abode of snakes | | |
| 17 | Adulteration of tea | | |
| 18 | Adulteration of food | | |
| 19 | Banana toxicity | | |

- Faculty members are engaged in research projects:
  Major: 01 (completed)
  Minor: 15 (completed)
  Minor: 07 (ongoing).
  **Total: 23**
- Collaborative research activity is undertaken by four staff members of our college

## 3.2  Resource Mobilization For Research

### 3.2.1 What percentage of the budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization for last four years.

- Research works and projects are supported by funding agencies like UGC
- Expenditure for students' projects and seminars is borne by the college
- Seminars, workshops, conferences etc are conducted by self funding and also from grants sanctioned by funding agencies like UGC

The details are as follows:

| Year | | Major Research Projects ₹ | Minor Research projects ₹ | Journals ₹ | Books ₹ | Equipments ₹ |
|---|---|---|---|---|---|---|
| 2010-11 | Allocated | 11,13,284 | 4,27,000 | 58,000 | 74,360 | 1,59,000 |
| | Utilized | 6,02,800 | 3,32,000 | 58,000 | 53,238 | 2,25,276 |
| 2011-12 | Allocated | - | 4,27,000 | 60,000 | 76,015 | 2,01,698 |
| | Utilized | 4,27,135 | 6,02,800 | 60,000 | 85,338 | 68,654 |
| 2012-13 | Allocated | - | 11,45,000 | 60,000 | 71,750 | 1,23,979 |
| | Utilized | - | 9,41,000 | 60,000 | 91,538 | 84,724 |
| 2013-14 | Allocated | - | 3,70,000 | 60,000 | 69,240 | 1,65,783 |
| | Utilized | Completed | 2,60,000 | 60,000 | 70,233 | 90,981 |

## 3.2.2 What are the financial provisions made in the College budget for supporting student research projects?

- Budget allocation to the departments is made for the purchase of books, journals, equipments, essential chemicals and glassware. These would be used by the students for research projects
- There is a provision for seed money for student projects
- Students are encouraged to apply for financial assistance to funding agencies like VGST, Bengaluru to carry out projects
- College provides TA, DA and other financial assistance to the students to participate /present the papers in the seminars/Conferences/subject forums/ science exhibitions/ field survey and to interact with scientists of reputed Institutions

| Year | Science Exhibition/Projects (in ₹) | Seminars /Conference/ Workshop (in ₹) |
|---|---|---|
| 2010-11 | 1,200 | 5,909 |
| 2011-12 | 9,856 | 10,398 |
| 2012-13 | 7,780 | 8,607 |
| 2013-14 | 2,585 | 14,491 |
| 2014-15 | 2,500 | 4,700 |

## 3.2.3 Is there a provision in the institution to provide seed money to faculty for research? If so, what percentage of the faculty has received seed money in the last four years?

Yes, there is a provision in Institution to provide seed money to the faculty for research. The college provides financial assistance to the faculty towards the payment of registration fees and other expenses for presenting papers in National/International seminars/conferences.

| Year | Amount | No. of Faculty | Percentage |
|---|---|---|---|
| 2010-11 | 70,818 | 10 | 31.25 |
| 2011-12 | 10,120 | 13 | 41.93 |
| 2012-13 | 19,820 | 15 | 55.55 |
| 2013-14 | 14,551 | 10 | 43.47 |
| 2014-15 | 20,574 | 14 | 58.30 |

Seed Money Provided to the Faculty for Research Activities



**3.2.4 Are there any special efforts made by the College to encourage faculty to file for patents? If so, provide details of patents filed and enumerate the sanctioned patents.**

* Efforts are being made by the college to encourage the faculty to file for patents

**3.2.5 Provide the following details of ongoing research projects.**

Ongoing minor research projects

| Sl. No. | Name of the faculty | Year | Name of the project | Funding agency /Industry | Total Grant Allocated ₹ |
|---|---|---|---|---|---|
| 1 | Shri. S. L. Galagali | 2014-15 | Study of structural, electrical & Magnetic properties of cadmium substituted magnesium ferrite | UGC | 1,85,000 |
| 2 | Shri. U.R. Rajput | 2013-14 | Design, Synthesis and Antimycobacterial Evaluation of Pyrazole Analogues. | UGC | 1,00,000 |
| 3 | Dr. (Smt) J. S. Kawalekar | 2013-14 | Screening of Phytochemicals in the Floral Organs of Pongamia Pinnata Linn.-Fabaceae Family | UGC | 1,85,000 |
| 4 | Shri. B. B. Bavache | 2013-14 | Spectroscopic studies of some organic polymers by computation method. | UGC | 85,000 |
| 5 | Dr. M.S. Patil | 2012-13 | Simulation Of Active And Passive Filters | UGC | 1,55,000 |
| 6 | Smt. R.S. Maben | 2012-13 | Biodiversity Of Birds Of Belagaum City | UGC | 55,000 |
| 7 | Smt. M.S. Bagi | 2012-13 | Survey Of Noise Pollution Levels In Traffic Zones Of Belagaum City | UGC | 1,10,000 |

**3.2.6 How many departments of the College have been recognized for their research activities by national/ international agencies (UGC-SAP, CAS, DST, DST-FIST, DBT, ICSSR, ICHR, ICPR, etc) and what is the quantum of association received? Mention any two significant outcomes or breakthrough due to such recognition.**

- Department of Botany has been recognized by Vision Group of Science and Technology (VGST), Government of Karnataka for financial assistance under K-FIST scheme with financial assistance of ₹30,000/-
- All the Departments of the college are receiving grants for major and minor research projects from UGC
- Out come: one paper is published by two students in international journal

**3.2.7 List details of completed research projects undertaken by the College faculty in the last four years and mention the details of grants received for such projects (funded by Industry/ National/ International agencies)**

### Major Research Projects

| Sl. No. | Name of the faculty | Name of the project | Funding agency | Total grant received ₹ |
|---------|---------------------|---------------------|----------------|------------------------|
| 1 | Dr. B. N. Sunkad | Ecology & Biodiversity of Malaprabha river of Belagavi District | UGC | 11,13,284 |

### Minor Research Projects

| Sl. No. | Name of the faculty | Year | Name of the project | Funding agency | Grant received ₹ |
|---------|---------------------|------|---------------------|----------------|------------------|
| 1 | Shri. S.D. Gorinaik | 2014 | Ground Water Quality Assessment Of Belagavi City | UGC | 1,00,000 |
| 2 | Shri. R.A. Yadahalli | 2014 | Resistance Of Polymer Modified Fly Ash Concrete Subjected To Chloride Attack | UGC | 80,000 |
| 3 | Shri. B.K. Patil | 2014 | Removal Of Industrial Wastewater Color By Use Of Low Cost Adsorbents | UGC | 1,10,000 |
| 4 | Smt. C. S. Patil | 2014 | Novel Synthesis And Characterization Of Nitro And Thio Substituted Simple Heterocyclic Deravitives Of Triazine Trichloride (Cyanuric Chloride) | UGC | 1,60,000 |
| 5 | Dr. P.B. Bendigeri | 2014 | Evaluation Of Water And Phytodiversity Of Some Historical Wells Of Belagavi City-Karnataka | UGC | 1,50,000 |

| | | | | | |
|---|---|---|---|---|---|
| 6 | Shri. A. S. Pujar | 2014 | Investigation Of Spectroscopic Properties In Some Molecules Through Computational And Experimental Methods | UGC | 1,25,00 |
| 7 | Dr. S. N. Banasode | 2012 | Recent studies on general and fuzzy topology | UGC | 1,25,000 |
| 8 | Shri. B. I. Noginhal | 2012 | Advance study in general and fuzzy topology | UGC | 1,15,000 |
| 9 | Smt. S. B. Angadi | 2012 | Operations and bioperations in topological spaces | UGC | 1,05,000 |
| 10 | Smt. K. I. Pattan | 2012 | Studies on migratory birds visiting Hidacal catchment area | UGC | 92,000 |
| 11 | Prin. V. G. Astagi | 2012 | The study of adverse effects of medicines & substitute for such medicines by eco friendly medicines. | UGC | 1,10,000 |
| 12 | Shri. S. S. Abbai | 2011 | Biodiversity of temple pond of Shri Kshetra sogal of Belagavi Dist. | UGC | 40,000 |
| 13 | Shri. N. B. Gokavi | 2011 | Ambient air quality of Belagavi city | UGC | 60,000 |
| 14 | Dr. J. S. Kawalekar | 2010 | Histochemical Study of microsporogenesis in the anthers of *Sechium edule* L. | UGC | 40,000 |
| 15 | Dr. V. R. Naik | 2010 | Studies on Bacteria involved in degradation of sugar in sugar mills | UGC | 25,000 |

## 3.3 Research Facilities

**3.3.1 What efforts are made by the College to keep pace with the infrastructure requirements to facilitate Research? How and what strategies are evolved to meet the needs of researchers?**

**Following efforts are made:**

- Facilitating the faculty with departmental libraries, well-equipped laboratories, computers with internet and Wi-Fi facilities, reprography, printers etc.
- Providing e-journals, e-books, and software through central library
- Post Graduate Departments of Physics and Mathematics are equipped with adequate infrastructure such as laboratory, computers with internet facility, departmental libraries and information resource centre
- 24 Hour power backup facility with automatic change over
- Research committee monitors and encourages the research activities

- Brochures regarding conferences and research activities and the information about the various funding agencies are displayed on the notice board of Research cell
- Assisting the faculty in getting funds from different funding agencies

**Strategies evolved to meet the needs of researchers:**
- To apply to the funding agency for research projects
- To get the necessary equipments, literature and e-resources on the request of researchers
- To facilitate field work, leave is sanctioned
- Sanctioning of leave to enable the teachers to attend course work and appear for pre Ph.D. examinations
- The college has 23 well-equipped laboratories to enable the faculty to conduct their research activities

### 3.3.2 Does the College have an information resource centre to cater to the needs of researchers? If yes, provide details on the facility.

Yes,
- The college has well established information resource center in the form of e-library (DELNET) with good infrastructural facilities to enable researchers to review the literature and thesis writing
- The research scholars and faculty members are provided with networking, e-journals, Ph.D. thesis, M.Phil dissertations, Research papers, student research projects to facilitate their research
- Research methodology is incorporated in our curriculum to enable the students to improve their research activities

### 3.3.3 Does the College provide residential facilities (with computer and internet facilities) for research scholars and faculty?

Yes, residential facilities for research scholars and faculty are given in the college hostel with computer and internet facility

### 3.3.4 Does the College have a specialized Research centre/ workstation to address challenges of research programmes? If yes, give details.

Yes, our College has its own Research cell.

To address the challenges of research scholars, college has agreement / collaboration with the following as the support:
- K.L. E Society's Dr Prabhakar Kore Basic Science Research centre, Belagavi
- Regional Medical Research Centre, Belagavi
- Government Biocentre, Belagavi
- District Statistical Office, Belagavi
- KLE Society's Dr M S Sheshagiri college of Engineering and Technology, Belagavi
- K.L.E Society's University college of Pharmacy, Belagavi

- INSPIRE Group, Dharwad
- Kanheri Education (IT company), Dharwad
  These centers act as the information hub for teachers, research scholars and students belonging to various departments of the college

### 3.3.5 Does the College have research facilities (centre, etc.) of regional, national and international recognition/ repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.

Yes, the college has research facilities of regional and national repute to cater to the needs of researchers from the department of Chemistry, Biotechnology, Zoology, Botany and Statistics.

- K.L.E University, Belagavi.
- Utilization of lab facilities and library facilities at various Universities, scientific Institutions and Technical Colleges

### 3.4 Research Publication & Awards

### 3.4.1 Highlight the major research achievements of the College through the following:
* **Major papers presented in regional, national and international conferences**

| | |
|---|---|
| Total | : 91 |
| International Level | : 16 |
| National Level | : 67 |
| State Level | : 08 |

**List of research papers presented:**

| Sl. No. | Name of the faculty | Year | Research Topics | Venue |
|---|---|---|---|---|
| 1 | Dr. B.N. Sunkad | 2010 | Better management of ground water source for drinking puropose in belagavi district of Karnataka, India | The 1st Environment Asia International Conference held at Rama Garden Hotel, Bangkok, Thailand |
| 2 | Dr (Smt).S.N. Banasode | 2010 | Generalized minimal closed maps in topological spaces | 76th Annual Conference of the Indian Mathematical Society held at Saradar Vallabhbhai Institute of Technology, Surat, Gujarat |
| 3 | Dr (Smt). V.R. Naik | 2010 | Deltamethrin induced modulations in the activities of oxidative enzymes and metabolites in the fingerlings of Cirrhinus mrigala | National seminar at Acharya Nagarjun University Nagarjun Nagar, A P |

| | | | | |
|---|---|---|---|---|
| 4 | Dr (Smt). V. R. Naik | 2010 | Deltamethrin induced alterations in the ionic concentrations and associated adenosine triphosphatases in fresh water teleost cyprinus carpio (linnaeus) | International Conference at Bengaluru |
| 5 | Shri. S. Kotrappa | 2010 | Enterprise application security using AOP-AspectJ | National Conference at K K Wagh Institute of Engineering Education & Research, Nashik, Maharastra |
| 6 | Shri. S. Kotrappa | 2010 | Multilevel Security using AOP AspectJ | International Conference at Kottayam, Kerala |
| 7 | Dr (Smt).J.S. Kawalekar | 2011 | Survey & documentation of some Anti-diabetic plants used by local vaidyas in Gavanal Village, at Hukkeri, Belagavi Dist. | National Conference held at PG Dept. of studies and research in Botany KUD |
| 8 | Dr (Smt).J.S. Kawalekar | 2011 | Multidimensional role of teacher in quality sustenance in higher education. | National Conference held at Dr. Ghali College Gadhinglaj Dist. Kolhapur |
| 9 | Dr (Smt).J.S. Kawalekar | 2011 | Autonomy in higher education its achievements and opportunities. | National Conference held at KLE's, J. T. Arts,Science and Commerce college, Gadag |
| 10 | Dr (Smt).J.S. Kawalekar | 2011 | Role of women in Biodiversity. | National Conference held at M. M. Science College, Belagavi |
| 11 | Dr (Smt).S.N. Banasode | 2011 | Generalized minimal continuous maps in bitopological spaces | 77th Annual Conference on the "Indian Mathematical Society" |
| 12 | Dr (Smt).S.N. Banasode | 2011 | Minimal open sets in Fuzzy topological spaces. | National Conference on "Recent developments in graduste Mathaematics" |
| 13 | Shri. B. I. Noginhal | 2011 | On coarse subsets and coarse space. | National conference in Mathematics |
| 14 | Shri. S. Kotrappa | 2011 | On the benefit of quantification in AOP systems-A Quantitative & Qualitative Assessment | International Conference at Bengaluru, India |
| 15 | Dr. R. S. Hiremath | 2011 | Dinakar ke Kavya mein yug chetanas | National Conference held at H.S. Kothambari college, Hubli |
| 16 | Smt K. I. Pattan | 2012 | Evaluation of Biochemical & histological activation of rat testes, induced by carbohydrate nature of lyophilized leaf powder | International Conference held at Center for Advanced studies of Zoology, University of Rajasthan, Jaipur |

| 17 | Smt K. I. Pattan | 2012 | Dose response effect of carbohydrate nature of lyophilized leaf powder of on the testes of Albino rat. | International Conference held at National Environmental Science Academy, New Delhi |
|----|-----------------|------|---|---|
| 18 | Dr (Smt). J. S. Kawalekar | 2012 | Role of Biofertilizers & Biopesticides for sustainable agriculture | National Conference held at, Dept. of Botany, KUD |
| 19 | Dr. (Smt) J. S. Kawalekar | 2012 | Organic Farming for sustainable agriculture | Devchand College, Arjun Nagar |
| 20 | Dr. (Smt) S. N. Banasode | 2012 | Generalized minimal regular spaces & generalized normal spaces. | Banaras Hindu University, Varanasi |
| 21 | Shri. S. Kotrappa | 2012 | The effect of design patterns on Aspect oriented software quality – an empirical evaluation | International Workshop at Bengaluru, India |
| 22 | Dr. P. B. Bendigeri | 2012 | Emerging trends and challenges to Biodiversity | International Conference at Sri Venkateshwara University Tirupati |
| 23 | Dr. R.S. Hiremath | 2012 | Dr. Ramkumar Verma | National Seminar held at B. K. College, Chikodi |
| 24 | Dr (Smt). S.N. Banasode | 2013 | Generalized minimal continuous maps in fuzzy topological spaces | International level Conference at Cochin |
| 25 | Smt. P.V. Arutagi | 2013 | Globalization & English Language | National level seminar at G.H. College, Haveri |
| 26 | Dr. R.S. Hiremath | 2013 | Hindi Natakon Mai Ubharate Nayeswara | National Conference at B. K. College, Chikodi |
| 27 | Shri. Ekantayya. S | 2013 | Online voting system by biometric security system using web cam and finger print reader | National Conference on Futuristic computer Applications at The Oxford College of Engineering, Bengaluru |
| 28 | Prof. A.S. Nayak | 2013 | Synthesis, characterization and antioxidant activities of 3,5-dialkoxy-4-hydroxycinnamamides | International Conference on Recent Advances in Material Science & Technology (ICRAMST-13) organized by Department of Chemistry NITK, Surathkal |
| 29 | Dr. R.S. Hiremath | 2013 | Aanchalik Upanyas Ek Sarvekhsan | National Conference held at SCP Arts & DDS Commerce College, Mahalingpur |

| 30 | Dr (Smt). J.S. Kawalekar | 2014 | A forestation with multiutility plants- A new strategy for conservation of biodiversity | National level Seminar at G.S.S College, Belagavi |
|----|--------------------------|------|-----------------------------------------------------------------------------------------|---------------------------------------------------|
| 31 | Dr (Smt). J.S. Kawalekar | 2014 | Raising awareness of violence against women | National level Seminar at K.LE Society's Lingaraj College, Belagavi |
| 32 | Smt. P.V. Arutagi | 2014 | Translation as a means of empowerment | National level Seminar at K.LE Society's Lingaraj College, Belagavi |
| 33 | Dr. R.S. Hiremath | 2014 | Bumandalikaran ki daur mein Hindi | Goa University, Goa |
| 34 | Dr. R.S. Hiremath | 2014 | Satotry Hindi Upanyas Eka parivartan ka Uga | State level seminar at KUD |
| 35 | Shri. F. V. Kallangoudar | 2014 | Teacher quality | International Conference at Govt. First Grade College, K. K. Koppa, Belagavi |
| 36 | Dr (Smt). J. S. Kawalekar | 2014 | Afforestation with multi utility plants | National conference J.T. College Gadag |
| 37 | Dr. R.S. Hiremath | 2014 | Upanasik ek sarvakshana | National conference at Arts and Commerce college Khanapur |
| 38 | Dr. R.S. Hiremath | 2014 | Natak Ek Parivarthan Ka Uga | International conference at Karnatak University Dharwad |
| 39 | Prof. S. V.Dalwai | 2014 | Neutron Diffraction | Raja Ram College Kolhapur |
| 40 | Dr (Smt). S.N. Banasode | 2014 | Properties of maximal open sets in topological spaces | National Conference at S. Nijalingappa College, Bengaluru |
| 41 | Dr (Smt). S.N. Banasode | 2014 | Properties of fuzzy maximal open sets in fuzzy topological spaces | International conference at NITK, Suratkal |
| 42 | Dr. B. G. Bevinakatti | 2014 | Recycling of waste products (e-waste) | National conference at G. I. Bagewadi college, Nipani |
| 43 | Shri R. R. Wadagavi | 2014 | Solar Interior | National conference at G. I. Bagewadi college, Nipani |
| 44 | Dr (Smt) J. S. Kawalekar | 2015 | Impact of Climate Change on the Livelihood of Indigenous People | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 45 | Prof. (Miss) Sushma Katti | 2015 | Waste Management and Its Implications | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 46 | Prof. Sneha Deshpande | 2015 | Global warming and its impact | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |

| Sl. No. | Name | Year | Topic | Venue |
|---|---|---|---|---|
| 47 | Prof. R. R. Wadagavi | 2015 | Global warming and its impact | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 48 | Miss P. C. Basti | 2015 | Biodegradable plastics-A solution to waste management | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 49 | Prof. R.R. Wadagavi | 2015 | 'A' Grade Institutes: Measures of Quality Sustanance | National Conference on "NAAC Assessment: Impact on Higher Education Institutes of Rural and Semi Urban Areas" Held at G.I. Bagewadi College, Nipani |
| 50 | Dr.(Smt) J.S. Kawalekar | 2015 | NAAC Assessment: A Boon for the Higher Education | National Conference on "NAAC Assessment: Impact on Higher Education Institutes of Rural and Semi Urban Areas" Held at G.I. Bagewadi College, Nipani |
| 51 | Prof. A.R. Taradale | 2015 | Synthesis of novel imidazole derivative with adjescent 2-(pyridine-2-yl) ethanamine derivatives | Two days National Conference on Recent Trends in Pharmaceutical Chemistry towards Drugs Synthesis held at HSK College, Hubballi |
| 52 | Prof. A.S. Nayak | 2015 | Synthesis of novel imidazole derivative with adjescent 2-(pyridine-2-yl) ethanamine derivatives | Two days National Conference on Recent Trends in Pharmaceutical Chemistry towards Drugs Synthesis held at HSK College, Hubballi |

## Paper presentation by the students:

| Sl. No. | Name of the Student | Year | Topic | Venue and Year |
|---|---|---|---|---|
| 1 | Mr Sripad Joshi Mr. M A Mujeeb | 2010 | Environmental issues | Seminar on Environmental Hazards in 21st Century' at G H College, Haveri. |
| 2 | Miss Shubha Gunaga | 2010 | Organic Chemistry | Chem Forum at Kittle College, Dharwad. |
| 3 | Miss. Sampada Shanbag | 2010 | Physical Chemistry | Chem Forum at Kittle College, Dharwad |
| 4 | Mr. Rohan Astekar and Miss Renu Malannavar | 2010 | Promotion and Protection of Human Rights | National Seminar held at P C Jabin College, Hubli |
| 5 | Miss. Priyanka Kakati and Miss. Nivedita Goni | 2010 | Ensuring equal Rights and Opportunities to Women | National Conference held at G I B College, Nipani. |

| 6 | Mr. M. A Mujeeb | 2010 | Ionizing and non ionizing radiations | National Conference held at Basevashwar Science College, Bagalkot |
|---|---|---|---|---|
| 7 | Miss. Sampada Shanbhag | 2011 | Redesigning of curriculum | National level seminar at B.K.College, Chokodi |
| 8 | Miss. Shubha Gunaga | 2011 | Research development and innovation | National level seminar at B.K.College, Chokodi |
| 9 | Miss. Shreya Havanoor | 2012 | The world of Nanoscience | National Seminar at B.K. College Chikodi |
| 10 | Miss. Priyanka Dalwai | 2013 | Renewable sources of energy | National Seminar at B.K. College Chikodi |
| 11 | Miss. Priya R Kalabhavi | 2013 | English and communication skills | National Seminar at G.H.College, Haveri |
| 12 | Miss. Juhi Singh | 2013 | English and personality development | National Seminar at G. H. College, Haveri |
| 13 | Miss. Juhi Singh | 2013 | Divorce | State level Seminar on Indian Social Problems- Challenges and Solutions at Lingaraj College |
| 14 | Miss. Aishwarya S Hattiholi | 2013 | Old age | State level Seminar on Indian Social Problems- Challenges and Solutions at Lingaraj College |
| 15 | Miss. Priya R Kalabhavi | 2014 | Biodegradable plastics – A solution to waste management (2nd Prize) | National conference at G. I. Bagewadi college, Nipani |
| 16 | Miss Swati Pujar | 2014 | e- waste management | National conference at G. I. Bagewadi college, Nipani |
| 17 | Mr. Mahantesh Kamate | 2014 | Origin of stars and planet | National conference at G. I. Bagewadi college, Nipani |
| 18 | Mr. Kartik Kulkarni | 2014 | The new cosmology | National conference at G. I. Bagewadi college, Nipani |
| 19 | Miss. Laxmi Shettigar | 2014 | The solar interior | National conference at G. I. Bagewadi college, Nipani |
| 20 | Mr. Vivek. B. Chandake | 2014 | Indian Space Science and its Future | National conference at G. I. Bagewadi college, Nipani |

| 21 | Miss. Durga Mahale | 2014 | Literature and Life (1st Prize) | Inter – collegiate student seminar at S. C. P. Arts and D. D. S. Commerce college, Mahalingpur |
|----|-------------------|------|-------------------------------|-----------------------------------------------------------------------------------------------|
| 22 | Miss. Aishwarya Hattiholi | 2014 | Literature and Life (2nd Prize) | Inter – collegiate student seminar at S. C. P. Arts and D. D. S. Commerce college, Mahalingpur |
| 23 | Mr. Mahantesh Kamate | 2014 | Literature and Life | Inter – collegiate student seminar at S. C. P. Arts and D. D. S. Commerce college, Mahalingpur |
| 24 | Mahantesh Kamate | 2015 | Climate Change & its impact on natural resources | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 25 | Saziya Bidi | 2015 | Biodiversity & conservation | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 26 | Aishwarya S.H | 2015 | Waste management & its implications | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 27 | Kartik K.B. | 2015 | Climate change and its impact on natural resources | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 28 | Rahul Talwar | 2015 | Climate Change | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 29 | Juhi Singh | 2015 | Biodiversity and its conservation | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 30 | Durga Mahale | 2015 | Waste Management & its social implications | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |

| 31 | Prajakta Muchandi | 2015 | Global warming and its impact | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
|---|---|---|---|---|
| 32 | Prema K. | 2015 | Waste Management and its implications | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 33 | Shivani Kaundal | 2015 | We live in the world of Beauty and Miracles | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 34 | Priya R Kalabhavi | 2015 | Biodiversity and its Conservation (Poster) | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 35 | Shweta Kamate and Priyanka Kharade | 2015 | Environmental Pollution and its effect (Poster) | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 36 | Shweta Bannur and Shantipriya Kamat | 2015 | Environmental Pollution (Poster) | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 37 | Pratibha Kumari and Taniya Tyagi | 2015 | Environmental Pollution-plant and animal responses (Poster) | National Seminar on Climate Change & its impact on Biodiversity, held at R.L.Sc. Institute, Belagavi |
| 38 | Miss. Juhi Singh | 2015 | Recent Trends in Drug Discovery | Two days National Conference on Recent Trends in Pharmaceutical Chemistry towards Drugs Synthesis held at HSK College |
| 39 | Miss. Aishwarya Hattiholi | 2015 | Recent Trends in Drug Discovery | Two days National Conference on Recent Trends in Pharmaceutical Chemistry towards Drugs Synthesis held at HSK College |

* **Publication per faculty**
  **Total** : 57
  **International Level** : 37
  **National Level** : 20

| Sl. No. | Name of the faculty | Department | No. of publications | |
|---|---|---|---|---|
| | | | **Books** | **Article in Journals** |
| 1 | Dr. B. N. Sunkad | Zoology | 1 | 10 |
| 2 | Dr. M. S. Patil | Physics | | 1 |
| 3 | Dr. (Smt) S. N. Banasode | Mathematics | | 5 |
| 4 | Shri. C. N. Naikar | Chemistry | 1 | |
| 5 | Dr. J. S. Kawalekar | Botany | | 7 |
| 6 | Shri. S. S. Abbai | Zoology | | 1 |
| 7 | Dr.(Smt).V.R.Naik | Zoology | | 3 |
| 8 | Shri. S. Kotrappa | BCA | | 9 |
| 9 | Dr. M. S. Chaudhary | Mathematics | 1 | 7 |
| 10 | Dr. C. S. Manjarekar | Mathematics | | 9 |
| 11 | Shri. U. R. Rajaput | Chemistry | | 1 |
| 12 | Smt. K. I. Pattan | Zoology | | 1 |
| 13 | Dr. P. B. Bendigeri | Botany | | 1 |
| 14 | Dr. R. G. Kulkarni | Physics | 1 | 1 |
| 15 | Dr. R. S. Hiremath | Hindi | 1 | |
| 16 | Shri. A.S. Nayak | Chemistry | | 1 |

## List of publications

| Sl. No. | Name of the faculty | Year | Topic | Name of the Journal |
|---|---|---|---|---|
| 1 | Dr. B.N. Sunkad | 2010 | Water quality of well waters in and around Yellur village of Belagavi (Karnataka) | National Journal of Pollution Research |
| 2 | Dr. B.N. Sunkad | 2010 | Biodiversity of Rotifer Fauna of Fort lake of Belagavi city | National Journal of Environment and Ecology |
| 3 | Dr. B.N. Sunkad | 2010 | Water quality assement of Tambrapani River of Kowad, Maharashtra | National Journal of Nature Environment and Pollution Research |
| 4 | Dr. M. S. Chaudhary | 2010 | On some Results of HK-CONVOLUTIONS | International Electronic Journal of pure and applied Mathematics |
| 5 | Dr. M. S. Chaudhary | 2010 | On Henstock-Kurzweil Hartley Transform | International Journal of computational Science and Mathematics |
| 6 | Dr. M. S. Chaudhary | 2010 | Henstock-Stieltjes integral for Banach Space-valued functions | Bulletin of Kerala Mathematics Association |
| 7 | Shri. S. Kotrappa | 2010 | Coupling metrics for oriented programming-A systematic review | International journal of advanced Research in Computer Science |

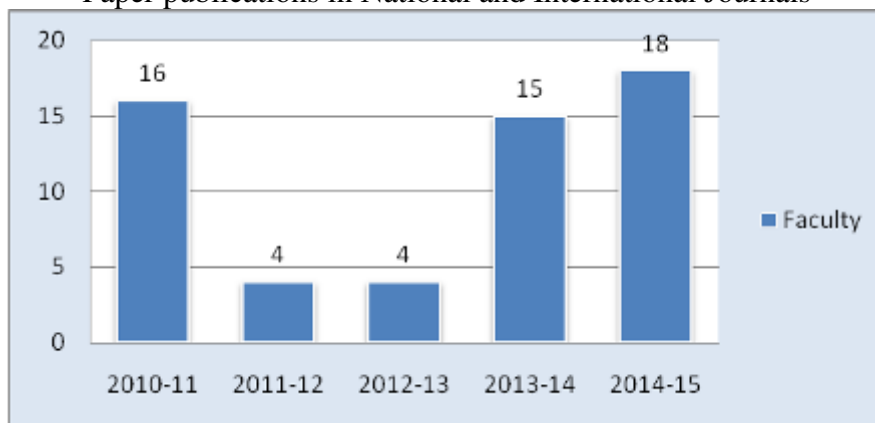| 8 | Shri. S. Kotrappa | 2010 | Aspect oriented software metrics-A empirical study | International Journal of Computer Applications |
|---|---|---|---|---|
| 9 | Shri. S. Kotrappa | 2010 | Design Patterns Vs Aspect Oriented programming-A qualitative and quantitative Assessment System | International Journal of Computer Science & Communication |
| 10 | Shri. S. Kotrappa | 2010 | Modularization of Enterprise Application Security Through Spring AOP | International Journal of Computer Science & Communication |
| 11 | Shri. S. Kotrappa | 2010 | Impact of Aspect Oriented Programming on software Development Design quality Metrics-A Comparative Study | Journal of Computing |
| 12 | Shri. S. Kotrappa | 2010 | Stronger Enforcement of Security Using AOP & Spring AOP | Journal of Computing |
| 13 | Shri. S. Kotrappa | 2010 | Enhanced Modularity in Aspect Oriented Software Systems-An Assessment Study | International Journal of Computer Science & Engineering |
| 14 | Shri. S. Kotrappa | 2010 | Impact of Aspect Oriented programming on Software development Quality Metrics | Global Journal of Computer Science & Technology |
| 15 | Shri. S. Kotrappa | 2010 | Application Level Security Using Aspect Oriented Programming AspectJ | Journal of Computer Society of India |
| 16 | Dr. (Smt) S. N. Banasode | 2010 | Generalized minimal closed sets in Topological spaces. | Journal of Computer and Mathematical Sciences |
| 17 | Dr. M. S. Chaudhary | 2011 | On Gauge Laplace Transform | International Journal of Mathematics analysis |
| 18 | Dr. C.S. Manjarekar | 2011 | M-modular pairs in multiplicative lattices | The Proceedings of the International Conference on Algebras and its Applications (Published by Narosa Publishing House) |
| 19 | Dr. (Smt)J. S. Kawalekar | 2011 | Distribution of Polysaccharides in anther Tissues of Cucumis Sativus L. | Indian Journal of Life Sciences |
| 20 | Dr. (Smt)J. S. Kawalekar | 2011 | Survey & documentation of some Antidiabetic plants used by local vaidyas in Gavanal Village, at Hukkeri, Belagavi Dist.(Research Article) | Plant science feed journal |
| 21 | Dr. M. S. Chaudhary | 2012 | Henstock-Stieltjes integral in $L^r$ | Journal of advanced Research in Pure Mathematics |

| 22 | Smt K. I. Pattan | 2012 | Dose effect of carbohydrate nature of lyophilized leaf powder of Azadirachta indica on testis of albino rats | International Multidisciplinary Research Journal |
|---|---|---|---|---|
| 23 | Dr (Smt).J. S. Kawalekar | 2012 | Preliminary phytochemical Investigations in the roots of Nerium oleander Linn. | International journal of Pharmacognosy & Phytochemical Research |
| 24 | Dr. (Smt) S. N. Banasode | 2012 | Minimal open sets in fuzzy topological spaces. | Bulletin of the Marathwada Mathematical Society |
| 25 | Dr. B.N. Sunkad | 2013 | Better management of ground water source for drinking purpose in Belagavi Dist. Of Karnataka, India | International journal of scientific research |
| 26 | Dr. B.N. Sunkad | 2013 | Water quality of Malabrabha river with reference to Physico-chemical factors near Khanapur town of Belagavi Dist. | International journal of Innovative research in Science, Engineering & Technology |
| 27 | Dr. B.N. Sunkad | 2013 | Zooplankton Abundance in Malabrabha river: Impact of Environmental Variables | International interdisciplinary Research journal |
| 28 | Dr. B.N. Sunkad | 2013 | Limnological study of Malabrabha river near Gngambika M.K.Hubli, Karnataka | Journal of Global Biosciences |
| 29 | Dr. B.N. Sunkad | 2013 | Study of Water quality of Malaprabha river near Habbanatti, Belagavi, Karnataka | Scholars Journal of Engineering & technology Sch. J. Eng. Tech. |
| 30 | Dr. B.N. Sunkad | 2013 | Effect of anthropogenic activities on zooplankton population of sogal pond, Belagavi Dist., Karnataka | Research Journal of recent sciences |
| 31 | Shri. S.S. Abbai | 2013 | Effect of anthropogenic activities on zooplankton population of sogal pond, Belagavi Dist., Karnataka | Research Journal of recent sciences |
| 32 | Dr. M.S. Choudhary | 2013 | Analysis | International Journal of Applied Mathematics & Statistics |
| 33 | Dr. M.S. Choudhary | 2013 | Analysis | International Journal of pure & Applied Mathematics |
| 34 | Dr. C.S. Manjarekar | 2013 | On Multiplication Lattice Modules | International Mathematical Forum |
| 35 | Dr. C.S. Manjarekar | 2013 | Primary Radicals In Lattice Modules | International Journal Of Advancements and Technology |
| 36 | Dr. C.S. Manjarekar | 2013 | An Element Weakly Primary To Another Element | Chinese Journal Of Mathematics |
| 37 | Dr. C.S. Manjarekar | 2013 | Weakly Prime Elements In Lattice Modules, | International Journal of Scientific and Research Publications |

| 38 | Dr. (Smt) J.S. Kawalekar | 2013 | Role of Biofertilizers & Biopesticides for Sustainable Agriculture | Journal of Bio Innovation |
|---|---|---|---|---|
| 39 | Shri. A.S. Nayak | 2013 | Cytotoxicity studies of microwave assisted natural product extracts in HeLa and MCF-7 cell lines | International Journal of Medicinal and Aromatic Plants |
| 40 | Dr(Smt).V.R.Naik | 2014 | Deltamethrin induced alteration in $Na^+$, $Mg^{2+}$, Ca2+, Associated ATPases activity in the freshwater fish *Cirrhinus Mrigala* | International Journal of Pharmaceutical & Biology Archives |
| 41 | Dr(Smt).V.R.Naik | 2014 | Alteration in the levels of ACh and associated AChE in the tissues of fresh water fish *Cirrhinus Mrigala* exposed to delta methrin. | International Journal of Pharmaceutical & Biology Archives |
| 42 | Dr. M. S. Patil | 2014 | Wind energy: Analysis of the Technological Potential & policies in India | International Journal of Eng. Research & Technology (IJERT) |
| 43 | Shri. U. R. Rajput | 2014 | Synthesis, characterization and biological evaluation of thiozodine 2, 4dione derivatives | Medicinal Chemistry research |
| 44 | Dr. B. N. Sunkad | 2014 | Evaluation of water quality of Malaprabha river near Jlikoppa Bridge, Belagavi | Scholars journals of Eng. & Tech. Sch. J. Eng. Tech. |
| 45 | Dr.(Smt).V.R.Naik | 2014 | Alteration in the levels ions in the tissue of fresh water fish *Cirrhinus Mrigala* exposed to delta methrin | International Journal of Pharmaceutical & Biology Archives |
| 46 | Dr. C.S. Manjarekar | 2014 | d-primary elements in multiplicative lattices | International journal of advance research |
| 47 | Dr. C.S. Manjarekar | 2014 | An element prime to and primary to anther element in lattice modules | International journal of pure algebra |
| 48 | Dr. C.S. Manjarekar | 2014 | Residuation Properties and Weakly Primary Elements In Lattice Modules | Hindawi Publishing Corporation |
| 49 | Dr. C.S. Manjarekar | 2014 | Primary Decomposition in Lattice Modules, | European journal of pure and applied mathematics |
| 50 | Dr.(Smt) J. S. Kawalekar | 2014 | Afforestation with multi utility plants | International Journalof Scientific Research |
| 51 | Dr. (Smt) S. N. Banasode | 2014 | On generalized minimal regular spaces and generalized minimal normal spaces | International journal of pure algebra |
| 52 | Dr. (Smt) S. N. Banasode | 2014 | On generalized minimal continuous maps in topological spaces | International journal of pure algebra |
| 53 | Dr. P. B. Bendigeri | 2014 | Survey and documentation of antioxidant rich fruits | World journal of pharmaceutical research |
| 54 | Dr. J. S. Kawalekar | 2014 | Survey and documentation of antioxidant rich fruits | World journal of pharmaceutical research |
| 55 | Dr. J. S. Kawalekar | 2014 | Derelict land restoration and reclamation: Novel approaches | An international multidisciplinary research journal |

| 56 | Dr. (Smt) S. N. Banasode | 2014 | Properties of fuzzy maximal open sets in fuzzy topological spaces | International journal of Mathematical sciences |
|----|--------------------------|------|------------------------------------------------------------------|-----------------------------------------------|
| 57 | Dr. R. G. Kulkarni | 2014 | Synthesis of Nikel Ferrite having super nano size particles (~ 0.5nm) by Sol – Gel method | International journal of advanced research in basic and applied science |

Paper publications in National and International Journals



* **Publication by students:**
  - **Mr. Manjunath Nandenavar** published his self composed poems in the form of book **"Ninneyanthilla Nannoor"** released on 24th March -2014
  - **Miss Varsha Patil and Vijaylakhsmi Naik** published research paper on "Preliminary Phytochemical Investigations on roots of *Nerium* oleander. Linn" in **International Journal of Pharmacognosy and Phytochemical Research 2012;4(3); 134-138**
* **Faculty serving on the editorial boards of national and international journals**: **Four** members are serving on the editorial board

  **Twelve** members are serving as life members of state, national and international organization

  **Three** members are serving as expert on National Interview Board

  **Five** members are serving as paper reviewer for National/ International journals
* **Faculty members on the organization committees of international conferences, recognized by reputed organizations / societies:** **Three** members

**3.4.2 Does the College publish research journal(s)? If yes, indicate the composition of the editorial board, publication policies and whether it is listed in international database?**

- Our college does not publish research journal. However college publishes its own college magazine where the articles given by the students and the faculty are published

**3.4.3 Give details of publications by the faculty.**

∗ **Number of papers published in peer reviewed journals (national / international)**

| Sl. No. | Name of the faculty | Department | No. of publication | | Citation Index | Impact factor |
|---|---|---|---|---|---|---|
| | | | Books | Article in Journals | | |
| 1 | Dr. B. N. Sunkad | Zoology | 1 | 10 | 24 | 1.2119 |
| 2 | Dr. (Smt) S. N. Banasode | Mathematics | | 5 | 49 | 4.2949 |
| 3 | Shri. C. N Naikar | Chemistry | 1 | | | - |
| 4 | Dr.(Smt) J. S. Kawalekar | Botany | | 7 | 20 | 5.045 |
| 5 | Shri. S. Kotrappa | BCA | | 9 | 12 | 0.835 |
| 6 | Shri. S. S. Abbai | Zoology | | 1 | | 1.2119 |
| 7 | Dr. (Smt).V.R. Naik | Zoology | | 3 | 01 | 1.557 |
| 8 | Dr. M. S. Patil | Physics | | 1 | 136 | 1.76 |
| 9 | Dr R. S. Hiremath | Hindi | 1 | | | - |
| 10 | Dr. M. S. Choudary | Mathematics | 1 | 7 | 20 | 2.48 |
| 11 | Dr. C. S. Manjarekar | Mathematics | | 9 | 38 | 0.235 |
| 12 | Dr. R. G. Kulkarni | Physics | 1 | 01 | 03 | 0.175 |
| 13 | Shri U. R. Rajput | Chemistry | | 1 | 70 | 1.612 |
| 14 | Smt K. I. Pattan | Zoology | | 01 | 01 | 3.911 |
| 15 | Dr. P. B. Bendigeri | Botany | | 01 | | 5.045 |
| 16 | Shri. A.S. Nayak | Chemistry | | 01 | 70 | 1.685 |

- Citation index - Range: 1-140
- Impact factor - Range: 0-6
- h- index: - 1-20

**3.4.4 Indicate the average number of successful M. Phil and Ph. D. scholars guided per faculty.**

| Sl. No. | Name of the faculty | Department | No. of Ph. D students guided/ guiding | No. of M. Phil students guided/ guiding |
|---|---|---|---|---|
| 1 | Dr. S. N. Banasode | Mathematics | 8 | - |
| 2 | Dr. M. S. Choudary | Mathematics | 7 | - |
| 3 | Dr. C. S. Manjarekar | Mathematics | 3 | - |
| 4 | Dr. R. G. Kulkarni | Physics | 3 | - |
| 5 | Dr. R.S. Hiremath | Hindi | - | 2 |

### 3.4.5 What is the stated policy of the College to check malpractices and misconduct in research?

The research cell monitors the quality of research work to avoid malpractices and misconduct in research. In our institution so far malpractices and misconduct have not been reported.

### 3.4.6 Does the College promote interdisciplinary research? If yes, how many inter departmental/ inter disciplinary research projects have been undertaken and mention the number of departments involved in such an endeavor.

Yes.

The college promotes interdisciplinary research among different faculty members of various Departments of the college and in collaboration with academicians of Universities and Technical Institutions.

The college has the following interdisciplinary projects within the college and the collaboration with other institutes and Universities.

## No. of Projects: 09

| Sl. No. | Name of the project | Departments |
|---------|---------------------|-------------|
| 1 | Ground Water Quality Assessment Of Belagavi City | Chemistry Dept with KLE Society's Dr M S Sheshagiri college of Engineering and Technology, Belagavi |
| 2 | Resistance of Polymer Modified Fly Ash Concrete Subjected To Chloride Attack | Chemistry Dept with KLE Society's Dr M S Sheshagiri college of Engineering and Technology, Belagavi |
| 3 | Removal Of Industrial Wastewater Colour by Use Of Low Cost Adsorbents | Chemistry Dept with  KLE Society's Dr M S Sheshagiri college of Engineering and Technology, Belagavi |
| 4 | Design, Synthesis and Antimycobacterial Evaluation of Pyrazole Analogues. | Chemistry Dept with KLE Society's College of  Pharmacy |
| 5 | Soil Testing and water analysis | Chemistry Dept with Govt. Bio Center, Belagavi |
| 6 | Survey of senior citizens | Statistics Dept  with National sample survey organization, Belagavi |
| 7 | Ambient air quality of Belagavi city | Chemistry Dept with Karnataka State Air Pollution Control Board |
| 8 | Preliminary Phyto chemical investigation in the roots of Nerium | Botany Dept with  K.L.E University's Basic Science Research Centre, Belagavi |
| 9 | Biodiversity | Zoology Dept with Statistics |

- Statistical application in biological science (Biodiversity)
- Chemistry – Analysis of various parameters such as pH, Dissolved Oxygen (DO), Biochemical Oxygen Demand (BOD), Chemical Oxygen demand (COD), alkalinity, hardness, chloride etc., used in biodiversity

### 3.4.7 Mention the research awards instituted by the College

College recognizes and felicitates the awardees of M.Phil / Ph.D. Research guide.

### 3.4.8 Provide details of

∗ research awards received by the faculty: 02
∗ recognitions received by the faculty from reputed professional bodies and agencies: 13

| Recognitions | Number of Faculty |
|---|---|
| **Ph.D./M.Phil. Guide** | 01 |
| **National interview board** | 03 |
| **National/International editorial board** | 04 |
| **Peer rieviewer for National/International journals** | 05 |

### 3.4.9 State the incentives given to faculty for receiving state, national and international recognitions for research contributions.

• Provision is made to give special incentives.

## 3.5 Consultancy

### 3.5.1 What is the stated policy of the College for structured consultancy? List a few important consultancy services undertaken by the College.

The College pursues the policy of encouraging faculty members to provide consultancy in such a manner that it does not affect their academic work using the facilities available in the college. The faculty members of the college are providing consultancy on honorary basis on such aspects as:

• Authentication of plants
• Mushroom cultivation
• B. P. and Sugar level testing
• Supply of permanent histological slides
• Agriculture (Soil Testing)
• Water Analysis
• Lift irrigation scheme
• Technical consultancy in testing herbal samples
• Hemoglobin testing
• Training in computer literacy to Gazetted class I officers of Belagavi district
• Tally training to non teaching staff of all the colleges of KLE society

- Food adulteration
- Training in CBSC syllabus for High School teachers

### 3.5.2 Does the College have College – industry cell? If yes, what is its scope and range of activities?

Yes, the College has College-Industry cell which is a part of the placement cell to achieve skill integrated education and placement. The cell invites technocrats to provide industry related skill education. Further it facilitates establishing linkages with industries. Industrialists are the members of our Statutory Body

**Range of activities:**
- Re-designing of the curriculum
- Industrial project work
- Enhancement of employability skills
- To create good entrepreneurs
- CEDOK Entrepreneurship training
- Study of Tea processing

Because of these all activities, students are getting more placements in companies like: Wipro (Wista and Wase), IBM, Infosys, TCS, DUISHE Bank, ICICI Bank, ADP Pune etc., and also are setting up their own business initiatives.

### 3.5.3 What is the mode of publicizing the expertise of the College for consultancy services? Mention the departments from whom consultancy was sought.

Expertise of the college regarding consultancy is communicated through the staff, students, our website, orientation programmes and alumni meets.

Table showing our consultancy services:

| Sl. No. | Department | Consultancy services | Departments sought |
|---|---|---|---|
| 1 | Botany | Authentication of plants | KLE Society's College of Pharmacy Belagavi |
| | | | K.L.E Society's B.M.K Ayurvedic college, Belagavi |
| 2 | Zoology | Blood pressure and sugar level testing | Staff and students of our college |
| | | Supply of histological slides | Dept. of zoology of various colleges |
| 3 | Chemistry | Soil testing | Farmers |
| | | Water Analysis | |
| 4 | English | Translation | Police Dept. |
| 5 | Kannada | Translation | Staff and students of our college |
| 6 | Biotechnology | Hemoglobin Test | Staff and students of our college |
| | | Testing of herbal samples | Optimus herbal extracts, Belagavi |
| | | Food Adulteration | Milk Dairy |

| 7 | Physics | Lift irrigation | Farmers |
|---|---|---|---|
| | | Training in CBSE syllabus | High school teachers of Belagavi |
| 8 | Mathematics | Coaching in Mathematics | Orphanage Gangamma Chikkumbimath Bal Kalyan Kendra, Belagavi |
| 9 | BCA | Training in computer literacy | Class I officers of Belagavi district |
| | | Tally training | Non teaching staff of all the colleges of K.L.E Society |

### 3.5.4 How does the College encourage the faculty to utilize the expertise for consultancy services?

The expertise of the faculty members is encouraged by giving necessary facilities for community service by providing conveyance charges, duty leave, infrastructural facilities, e-sources and are trained to handle sophisticated instruments.

### 3.5.5 List the broad areas of consultancy services provided by the College and the revenue generated during the last four years.

| Sl. No. | Department | Consultancy services |
|---|---|---|
| 1 | Botany | Authentication of plants |
| 2 | Zoology | Blood pressure and sugar level testing |
| | | Supply of histological slides |
| 3 | Chemistry | Soil testing |
| | | Water Analysis |
| 4 | English | Translation |
| 5 | Kannada | Translation |
| 6 | Biotechnology | Hemoglobin Test |
| | | Testing of herbal samples |
| | | Food Adulteration |
| 7 | Physics | Lift irrigation |
| | | Training in CBSE syllabus |
| 8 | Mathematics | Coaching in Mathematics |
| 9 | BCA | Training in computer literacy |
| | | Tally training |

Faculty members of the college are involved in Boards of Studies of various Universities and Institutions. They offer services in Curriculum designing and development.

The consultancy provided by the faculty is honorary service extended to the society. Revenue generation is not our objective while utilizing expertise for providing consultations.
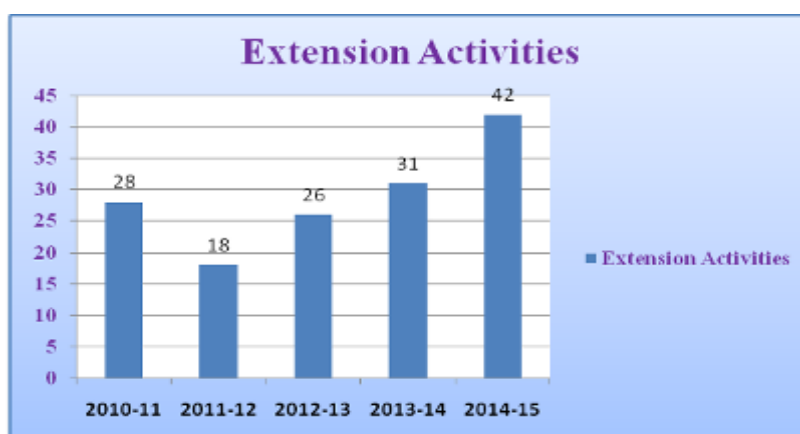
**3.6 Extension Activities and Institutional Social Responsibility (ISR)**

**3.6.1 How does the College sensitize the faculty and students on Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience.**

**Number of Extension Activities for five years = 145**

| Year | NSS | NCC | Others | Total |
|------|-----|-----|--------|-------|
| **2010-11** | 23 | 01 | 04 | **28** |
| **2011-12** | 14 | - | 04 | **18** |
| **2012-13** | 18 | 01 | 07 | **26** |
| **2013-14** | 19 | - | 12 | **31** |
| **2014-15** | 23 | 04 | 15 | **42** |
| **Total** | **97** | **06** | **42** | **145** |



Faculty and students of the Institution are given orientation by resource persons emphasizing on the core values & ethos and are also sensitized about Institutional social responsibilities. Faculty members and students are given the opportunity to serve in extension programmes of the college, which enhances their involvement in the extension activities of the college. Students are encouraged to take active part in extension activities through NSS, NCC, YRC, RRC and Women empowerment cell. The social outreach programmes conducted by the college that have created impact on the students' campus experience are listed below:

- Rally on Blood Donation Awareness and organizing blood donation camp
- Rally on AIDS awareness in rural areas
- Essay and Poster making competitions are conducted on AIDS/HIV- Youth & Women
- A guest lecture was arranged on Tobacco and its ill effects on health
- Staff and students participated in Voting Awareness rally

- Faculty worked in Systematic Voters' Education and Electoral Participation (SVEEP) programme
- All information related to students support measures like inter and intra college competitions, campus cleaning, ban on plastics, ban on using cell phones in the campus during college hours and maintaining pollution free campus is made aware to the students
- Students are sensitized to ensure that the campus is ragging free
- Scholarships are given to the socially disadvantaged students
- Placement cell, Career and Counseling cell, Women Empowerment cell, SC/ST cell, mentor system, NSS unit, Youth Red Cross, Red Ribbon Club and IQAC of the college ensure social responsibility among faculty and students
- Guest lectures on Legal Rights, Health and Hygiene are conducted
- Our students participate in anti sexual harassment rally thereby spreading awareness among the public
- Our students and teachers participate in wild life conservation programmes
- Rally on "Save Girl Child" was organized
- Observation of world heart foundation day
- Rally on prevention of foeticide was organized
- Students organized rally on world population day
- Implementation of Swacch Bharat Abhiyan
- Rally on 139th birth anniversary of Sardar Vallabhbhai Patel was organized as national integration day
- Celebration of Raja Lakhamagouda Jayanthi in addition to various other jayanthi's of National leaders
- Adoption of selected villages for social service by our NSS unit
- Contribution by the faculty towards "RLSI Nidhi" to support poor and meritorious students
- Contribution towards Flood relief fund
- Cultivation of Biofule producing plants
- Awareness and detection of food adulteration
- Environmental Awareness
- Haemoglobin testing
- H1N1 Awareness
- Virus free India Awareness
- Survey of Widow pension of Basavankol
- Soil testing for farmers in collaboration with Govt. Biocentre, Belagavi
- Water analysis for community in collaboration with Govt. Biocentre, Belagavi
- Awareness on Rain harvesting

Value based education is an integral part of our curriculum which reflects social responsibility and value based education

### 3.6.2 How does the College promote College – neighborhood network and student engagement, contributing to holistic development of students and sustained community development?

Majority of the departments are involved in extension activities in various fields to uphold the institutional social responsibility. It gives wider scope to students to learn ground realities in society. Students gain knowledge about various social issues and the techniques to address the problems. Their involvement in the community activities helps them not only for their development but also for the sustained community development.

The following activities are a regular feature of our institution

- Coaching the students at orphanage by our students
- Network development in the neighborhood through NSS, Red Ribbon Club, Youth Red Cross etc.
- Blood donation camps
- Guest lectures on Health awareness
- Sharing of college infrastructure with forest department to conduct exhibition on wild life
- Our college playground is used by the public for carrying out physical exercises, sports etc after the college hours
- Digital display of minute- to- minute temperature at the college entrance helps the general public to know about the temperature round the clock
- Explanation of celestial phenomena to the general public through "Watch and Wonder Club"
- Adoption of selected villages for development by our NSS unit.
- Annual monetary contribution for "Indian Association for Blind" for the welfare of blind
  **The following rallies were organized on different themes:**
- Awareness on Wild life conservation
- "Save Girl Child" Awareness
- AIDS Awareness programme was arranged in rural area during NSS special camp
- Volunteers participated in Voting Awareness rally
- Anti sexual harassment rally

### 3.6.3 How does the College promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

To promote the participation in the extension activities awareness programmes/lectures are conducted. The college makes the following

provisions for faculty members and students who are actively involved in extension programmes. Their contributions are also adequately recognized and considered for awards. These provisions help to motivate students to participate in these programmes,

The college has NSS, NCC, RRC and YRC. The teachers are in charge for the extension activities to arrange programmes.

- Felicitations to the NCC cadets and NSS volunteers for their achievements in outreach activities
- Duty leave provided to the faculty members for their participation in extension activities
- College deputes selected NCC/NSS cadets to attend R.D. parade
- Separate internal tests are conducted for the participants of extension activities on the dates other than scheduled dates. Out of turn facility for practical examinations is provided. Provision is made for special theory and practical classes
- College magazine showcases the highlights and the contributions made by the students and faculty towards social outreach programmes
- College makes transport and other arrangements for effective conduct of extension activities by NSS and NCC units of the college. If necessary, monetory contribution is also made by college and faculty

**3.6.4 Give details on social surveys, research or extension work (if any) undertaken by the College to ensure social justice and empower the under – privileged and most vulnerable sections of society?**

Extension activities undertaken by the college through various extension units are given below:

**Social surveys:**
- Survey of senior citizens and creating awareness on the facilities given by the Government
- Surveyed and arranged dental camp at Basavankol village

**Research:**
- Socio-economic survey of Dombari Community of Ganeshpur, village near Belagavi
- Air quality of Belagavi city
- Soil testing and water analysis
- Survey of Noise pollution levels in traffic zones of Belagavi city

**Extension Work:**
- Coaching the students at Orphanage by our students
- Awareness Programme on 'Right to vote'
- Awareness programme on 'Women's rights'
- Moral issues awareness program

- Observation of "World Environmental Day"
- Rally on "World Heart Day"
- Rally on "AIDS Awareness Day"
- Rally on "National Road Safety Week"
- Mobilization of veterinary camp
- Celebration of National Youth Day in connection with 150<sup>th</sup> Birth Anniversary of Swami Vivekananda
- Implementation of "Swacch Bharat Abhiyan" involving street play by the students
- Rally on National integration day
- Contribution by the faculty towards; "R.L.S.I Nidhi" to support poor and meritorious students

**3.6.5 Give details of awards / recognition received by the College for extension activities / community development work.**
- College has received Karnatak Rajya Vignana parishad award
- College received "IAB Blind Empowerment Champions 2014" from Indian Association for Blind for the voluntary contribution for the empowerment of visual challengers
- Rani Channamma University, Belagavi recognized our Department of Mathematics to celebrate National year of Mathematics 2013

**3.6.6 Reflecting on objectives and expected outcomes of the extension activities organized by the College, comment on how they complement students' academic learning experience and specify the values and skills inculcated?**

The various prospectives of extension activities reflected on cooperative learning-working together and understanding one another while doing their project works/extension activities. They understand the dynamism present in the team work which promotes learning skills, higher studies and research. Life skills like self-esteem and self-confidence get enhanced.

Values and skills inculcated:
- Caring and sharing
- Ethical implications of theoretical concepts
- Entrepreneurial skills and managerial skills
- Being co-conscious and gender sensitive
- Field exposure and development of inter- personal relationships
- Understanding social responsibilities to curtail the social problems of the society
- Team spirit, civic responsibility and community participation
- Communication skills
- Personality Development

- Health awareness
- Concern for Environment
- Safeguarding human rights and values
- Contribution to National development
- Social justice

### 3.6.7 How does the College ensure the involvement of the community in its outreach activities and contribute to the community development? Detail the initiatives of the College, which have encouraged community participation in its activities.

The college ensures involvement of the community in all its outreach activities directly or indirectly. The following are the note worthy initiatives.

- NSS, YRC units organize various camps like health check up camps, veterinary camp and community development work with the consent and consultation of the community in nearby villages
- They are also involved in the community developmental activities such as cleaning the area, white washing the school building, laying mud roads, tree plantation and regular watering of the plants etc.
- Professionals like doctors, lawyers, social activists and other representatives from government organizations share their practical knowledge about community service through invited lectures and workshops
- Guest lectures on legal rights, health and hygiene for girl students
- Involvement of community members in literacy and cultural programmes

### 3.6.8 Does the College have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?

Yes, college has a mechanism through the Faculty, Women Empowerment Cell, NSS and NCC officers to track the students' involvement in various social activities which promote citizenship roles through:

- YRC
- College magazine
- College forum
- NSS activities
- NCC activities
- Awareness programmes
- Celebration of National festivals
- Activities of different Departmental associations and clubs
  Such students are tracked and encouraged by honoring them.

Through all these activities our students/Alumni have excelled in various fields such as medicine, technical, defense, judiciary, politics, social service, administration, education, research, finance, entrepreneurship etc.

### 3.6.9 Give details on the constructive relationships (if any) with other institutions in nearby locality in working on various outreach and extension activities.

College makes special efforts in establishing constructive relationship with other service agencies and working with them on various outreach and extension activities:

- Health care with KLE's Dr. Prabhakar Kore Hospital, Belagavi
- Krishi Vigyan Kendra, Mattikoppa
- District Veterinary Hospital
- Banking sectors like BDCC Bank, Belagavi, Rani Channamma Mahila Bank, Belagavi
- Police Department
- Forest Department
- Red Ribbon Club
- CEDOK
- State government employment cell
- Deputy Commissioner's office
- Post office
- Election Commission
- Karnataka State Road Transport Corporation
- B. V. Bellad Law College
- Other sister Institutes
- INSPIRE Group, Dharwad
- Kanheri ITEducation, Dharwad

NCC cadets visit Air Force Station, Sambra for regular flying training and also get the information about Meteorology and Defense service opportunities from Air Force Education Branch.

### 3.6.10 Give details of awards received by the institution for extension activities and / contributions to the social / community development during the last four years.

- College received "IAB Blind Empowerment Champions 2014" from Indian Association for Blind, Madurai, Tamil Nadu for the voluntary contribution for the empowerment of visual challengers
- College received Karnatak Rajya Vignyan Parishad award

### 3.7 Collaboration

### 3.7.1 How has the College's collaboration with other agencies impacted the visibility, identity and diversity of activities on the campus? To what extent has the college benefitted academically and financially because of collaborations?

The collaboration programs have undoubtedly enhanced the brand equity of the college, which is conspicuous in gaining the status in the society

- By collaborating with agencies/industries/research organizations, the research activities have gained momentum in the college which is reflected by the number of paper presentations and publications by staff and students
- Collaborations have inspired our faculty and students to take up Major / Minor research projects and other interdisciplinary research activities

### 3.7.2 Mention specific examples of, how these linkages promote

Linkages with other institutions have enhanced the research activities and funding from the agencies

∗ **Curriculum development**

Suggestions from the academicians, industrialists, alumni and parents have helped in the development of curriculum.

- By introducing need based syllabus
- Industrialists and academicians are on the panel of statutory bodies like BoS and Academic Council. Interaction has provided valuable experiences to understand approaches and challenges in curricular reform

∗ **Internship, On-the-job training**

Our college provides:

- NET/SLET coaching and competitive exam training
- Training programs to the students for campus recruitment
- Linkages with CEDOK, ADP Pune etc provide the platform for placements
- Certificate courses
- **"Student as a teacher"** internship for PG students to build their career as a teacher

∗ **Faculty exchange and development**

- Teacher exchange program helps in redesigning the curriculum, exchange of ideas, and development of new teaching methodology
- "Mas'ter'ful teacher" – A faculty development programme
- Deputing the staff members to attend orientation and refresher courses to acquire advanced knowledge and academic profile

∗ **Research, Publication**

- Faculty members of the college have published a number of research articles in National and International peer reviewed journals in collaboration with other institutions/Industries/Organizations
- Increase in the number of research projects

∗ **Consultancy, Extension**

- Identification and authentication of plants in the K.L.E University Dental college campus
- Linkage with Biocentre, Belagavi has helped the college in providing consultancy in the area of soil testing, water analysis and plant tissue culture
- Linkage with K.L.E Hospital, Belagavi has helped the college in providing consultancy in the area of B. P. check up and blood group detection
- Collaboration with Swashakti Empowerment Cell for Women has helped the college in organizing meaningful extension activities in areas of women empowerment
- Moral issues awareness program
- Coaching the students at Orphanage by our students
- Survey of Dombari Community of Belagavi
- Blood group test and Blood Donation Camp
- Awareness Programme on right to vote
- Awareness programme on Women's rights
- Survey of senior citizens and creating awareness about the availability of Government facilities
- Survey of Literacy rate among the people of a nearby village-Basvankol
- Observation of "World Environmental Day"
- Rally on "World Heart Day"
- Rally on "AIDS Awareness Day"
- Rally on "National Road Safety Week
- Veterinary camp
- Celebration of National Youth Day in connection with 150th Birth Anniversary of Swami Vivekananda
- Free Dental check up camp
- Participation in Swachh Bharat Abhiyan

∗ **Student Placement**

- The placement officer is in regular contact with the Multi National Companies (MNC) and various industries for the placements. As a result, Infosys, Wipro, DUISCHE Bank, ADP Pune etc. have recruited our students

| Year | Name of the employer Visited | Name of the employer Other then our campus | No of Students Selected | Placed as Lecturers | Total Placed |
|---|---|---|---|---|---|
| 2014-15 | Infosys | Wipro, TCS | 53 | 29 | 82 |
| 2013-14 | -- | Infosys, Wipro, IBM, ADP Pune, ICICI, etc | 55 | 21 | 76 |
| 2012-13 | DUISHE BANK | Wipro | 23 | 25 | 48 |
| 2011-12 | Wipro | Infosys, wipro | 43 | -- | 43 |
| 2010-11 | Infosys. IBM, Wipro | | 27 | -- | 27 |
| | | **TOTAL** | 201 | 75 | 276 |

∗ **Any other, please specify**
- Science centre, Belagavi helped in organizing "Rocket Launching" Workshop
- Training for high school teachers on revised syllabus

**3.7.3 Does the College have MoUs nationally / internationally and with institutions of national importance / other universities / industries / corporate houses etc.? If yes, explain how the MoUs have contributed in enhancing the quality and output of teaching-learning, research and development activities of the College?**

Yes,

- MoU on experimental facilities in materials science research with Department of Physics, Saurashtra University, Rajkot, Gujarat
- MoU on utilization of experimental facilities in materials science research with Department of Physics Dr. B. A. Marathawada University, Aurangabad, Maharastra
- DELNET (Developing Library Network) New Delhi
- Entrepreneurship training through CEDOK (Center for Entrepreneurship Development of Karnataka) has enhanced the employability of the student
- By visiting The Belgaum Oxygen private Ltd. Kakati, Belagavi students are benefited to update the practical knowledge
- Faculty members are benefited for their research activities by visiting Dr M.S Sheshgiri Engineering College, Belagavi and K.L.E Society's Pharmacy College, Belagavi
- MoU with Optimus Herbal Extracts, Belagavi has helped the students to develop entrepreneurship skill
- MoU with Science Centre, Belagavi has enhanced the scientific knowledge of students
- MoU with Department of Geography Lingaraj College, Belagavi has helped in conducting the certificate course

These MoUs have helped the college in enhancing teaching-learning, Research and development related activities through curriculum development, faculty sharing, facility sharing, internship, placement and organizing workshops / seminars / conferences.

### 3.7.4 Have the College industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?

College industry interactions have resulted in the exposure of students to the industrial environment, which has provided proper practical and relevant knowledge, skills and competencies in preparations to become entrepreneurs and get the idea of research activities.

## CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

The college is located on 25 acres of land with sprawling lush green environment in the heart of the city. Temperature indicating digital display unit at the college entrance is a source of information of instant temperature not only to students but to the passersby also.

### 4.1 Physical Facilities

### 4.1.1 How does the college plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

Our College management realizes the importance of physical infrastructure and accordingly gives top priority for the availability of adequate infrastructure. Further, the Head of the institution and faculty take into account the available infrastructure in accordance with the strength of the college, the requirements in all spheres of college activities are enlisted and accordingly meticulous planning of renovation, substitution or construction is done. For such tasks suggestions from all the stakeholders are sought. By availing the funds from the UGC and the Management, the plans are implemented.

The college has the following important infrastructural facilities in place to ensure congenial learning environment to the students.

- We have twenty nine lecture halls, including two gallery halls. There are twenty two departmental laboratories and eighteen HOD/staff rooms. The details of the laboratories, HOD/Staff rooms, Museums / preparation rooms are given below:

Table showing labs, HOD/Staffrooms, Museums/Preparation rooms and store rooms

| Sl. No. | Department | No. of Labs | HOD/ Staff Rooms | Museums/ Preparation Rooms | Store Rooms |
|---|---|---|---|---|---|
| 1 | Physics | 6 | 2 | 1 | 1 |
| 2 | Chemistry | 4 | 2 | 1 | 2 |
| 3 | Mathematics | - | 2 | - | - |
| 4 | Botany | 2 | 2 | 2 | 1 |
| 5 | Zoology | 2 | 2 | 2 | 1 |
| 6 | Electronics | 1 | - | - | - |
| 7 | Biotechnology | 2 | 1 | - | - |
| 8 | Statistics | 1 | 1 | - | - |
| 9 | Comp Science | 1 | 1 | - | - |
| 10 | English | - | 1 | - | - |
| 11 | Kannada | - | 1 | - | - |
| 12 | Hindi | - | 1 | - | - |
| 13 | BCA | 2 | 2 | - | - |
| 14 | MCA | 1 | 1 | - | - |

- **Main Building**: The main building has two floors
  **Ground Floor:** Office of the Principal, College office, a Lecture hall, IQAC room, Chemistry HOD chamber, Chemistry department staff room , four laboratories, store rooms, preparation room with library, acid room, LPG gas plant, balance room and wash room for boys.
  **First Floor:** It has five lecture halls, one PG lecture hall, Mathematics and Statistics HOD rooms, Sir C. V. Raman Auditorium, Staff room of Mathematics and Statistics department with library, Computer Laboratory and Chemistry Museum.
- **Main Building Annex:** Belagavi Zilla Rani Channamma Mahila Co-operative Bank is in the ground floor of the building situated near the entrance of the campus. There are ladies rest rooms, alumni office, departments of Kannada and Hindi, Women Empowerment Cell and Health Care Centre in the first floor of the same building
- **Drinking Water facility with Cooler:** Reverse Osmosis purification plant is installed beside Chemistry department
- **Brabourne Building :** It has two floors
  **Ground Floor:** There are offices of NSS, NCC, Placement Cell, Student's Consumer Co-Operative Society, Staff Co-Operative Credit Society and wash room for ladies.
  **First Floor:** Brabourne Ladies Hostel.
- **Play Ground**: Cinder track for track events, Football, Hockey and Cricket ground, Volley Ball & Basketball Courts with flood lights
- **Gymkhana Building:** Physical director's office**,** Indoor stadium, wooden floored Badminton Court, Table Tennis Court, Multi Gym facility**.** Separate wash rooms and changing rooms for girls and boys

- **Canteen:** Located besides Gymkhana building
- **Physics Building** : It has two floors

    **Ground Floor:** It has six lecture halls, Department of English, record room of the office, store rooms of NSS and Physics department.

    **First Floor:** There are seven laboratories (one lab with dark room facility), staff room, HOD chamber, museum, departmental library and separate washrooms for men and women staff.
- **Biology Building :** It has two floors

    **Ground Floor:** Botany Department with ramp facility – there are two lecture halls, staff room, museum with departmental library, HOD Chamber, preparation room, two laboratories, a research laboratory and washroom for staff.

    **First Floor:** Zoology and Biotechnology Department – there are three lecture halls, staff room, HOD chamber, Museum, a preparation room, departmental library, four laboratories (one tissue culture lab) and washroom for girls.
- **BCA Block:** It has a Co-ordinator chamber, office room, staff room and a lecture hall
- **Education Block:** It has our Examination Section with Controller of Examination's chamber, strong room, administrative hall, valuation centre with individual carrels and instant tea vending kiosk on the fourth floor of the building. Examination section is air conditioned and has CCTV network

    It has eleven classrooms including four for PG classes, BCA library, hardware lab, computer lab and staff room, MCA Co-ordinator Chamber, office and washrooms for girls and boys.
- **Library Building:** It has three floors

    **Ground Floor**: 'Digital Vision' - Computer Laboratory

    **First Floor:** Library with computer room, reading room, librarian Chamber, drinking water and wash rooms for girls and boys.

    **Second floor**: Store room for preserving the old books which are generally not in circulation
- **Hostels :** Four Ladies Hostels and one Boys' Hostel
- **Staff Quarters:** Eight for teaching staff and four for support staff
- Botanical and Medicinal garden
- Ampi theatre and garden
- Open air theatre
- Multigym facility for girls and boys separately
- Swimming pool
- BDCC Bank
- Post Office
- Vehicles parking facility

- **Optimal Utilization of Physical Infrastructure**
- The college ensures optimum utilization of existing infrastructural resources through its working in two shifts. Add-on courses are conducted in the available class rooms when they are free
- The class rooms are used for teaching-learning activities from morning till evening for:
  - Regular classes
  - Enrichment and remedial classes
  - Internal tests
  - University Semester End Examinations
  - Mentor meetings
  - Student meetings
  - For Central Evaluation of answer scripts
  - Science exhibitions, etc.
- The physical infrastructure is optimally utilized after regular college hours to conduct certificate courses, co-curricular activities /extra-curricular activities, Campus Recruitment Training classes and campus recruitments. Our infrastructure is also used by external agencies to conduct Bank Recruitment Examinations, Government Examinations like CET, SLET, Forest department examinations, Railway department examinations etc., on Sundays and Holidays
- Our college infrastructure is used as polling station during elections
- NCC Airwing and Armywing parades and theory classes in addition to NSS social activities are conducted on Sundays
- The various laboratories are used throughout the day for conducting :
  - Practicals
  - Skill development courses and
  - Academic Workshops
- The college auditorium is constantly used for
  - Academic Functions
  - National Conferences, Seminars and Workshops
  - Association Activities & Functions
  - Staff Meetings
  - Cultural programmes
  - Stage rehearsals and interactive sessions of the students and the faculty
  - Parent- Teacher Meetings
  - Alumni Meetings
- The college play ground is used for students' practice sessions, to play games and to conduct sports activities and meets
- The facilities available in the Gymkhana are used by College students and staff for physical exercises and indoor games like Badminton, Chess, Carom, Table Tennis etc.

- The ladies room of our college is used for yoga classes for women after the college hours
- The college library is a gateway to the new world of the information. It provides text books, reference books, journals, periodicals, magazines, daily news papers, free access for internet etc. College library facilities are utilized to the maximum extent by the staff and students. In addition, library offers spacious seating arrangements and a quiet ambience for learning
- Silent eco-friendly 250kVA diesel generator has ensured round the clock uninterrupted power supply to the whole campus of our college
- All the departments, college office, placement cell, IQAC cell and library are connected with intercom facility

**4.1.2 Does the college have a policy for creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.**

It goes without saying that for the promotion of good teaching-learning environment valuable suggestions and recommendations given by the faculty of all the departments, alumni, parents, faculty looking after the Hostels and other support services are taken. This enables us to plan for the mobilization of funds for upgrading the infrastructure. Details of the new additions to infrastructure of the college during the last four years are as follows:

- Four classrooms for UG, four classrooms for PG, three classrooms for BCA/MCA, Library, Computer lab, Hardware lab, Administrative Office, Co-ordinator chamber (MCA) and Examination Section are constructed in Education Complex
- A new block is added to the new ladies hostel
- LCD projectors are installed in classrooms and conference halls
- Laboratories are upgraded with advanced equipments
- The college has updated its automation and networking to facilitate retrieval and usage of administrative and academic data. Electronic database is created for sustainable documentation of college information
- Public address systems are installed in some classrooms to ensure effective communication
- The college has a set of fully equipped ICT enabled classrooms which are used extensively for teaching, power point presentations, demonstrations, students seminars, etc.
- Construction of Basket Ball court
- Installation of Flood lights in play ground

**4.1.3 Does the college provide all departments with facilities like office room, common room, separate rest rooms for women students and staff?**

Yes, every department has a spacious, well-furnished and well-ventilated staff room along with computer, internet, printing and intercom facilities.

Separate rest room is provided for the women students and staff. Each faculty member has individual pigeon hole cupboard.

**4.1.4 How does the college ensure that the infrastructure facilities meet the requirements of students/staff with disabilities?**

The college has been making efforts to make the campus easily accessible and friendly to persons with disabilities.

The college has put in place the following facilities to meet the requirements of students/staff with disabilities**:**

- Wheel chair facility
- Ramp facility
- Arranging theory and practical classes at the ground floor
- The faculty members and support staff also look into the other requirements of such students/staff

**4.1.5 How does the college cater to the residential requirements of students? Mention?**

- **Capacity of the hostels and Occupancy(to be given separately for men and women)**
- **Recreational facilities in hostel/s like gymnasium, yoga center, etc.**
- **Broadband connectivity/ wi-fi facility in hostel/s**
- **i) Capacity of the hostels** (to be given separately for men and women)

In the campus there are totally five hostels i.e., one Boys' Hostel and four Girls' Hostels. Hostel accommodation is given to the students based on their requirement and availability.

**Rooms and Inmates capacity of the hostels**

| Name of the Hostel | Rooms | Capacity |
|---|---|---|
| Boy's Hostel | 100 | 136 |
| New ladies Hostel | 61 | 142 |
| New Block Ladies Hostel | 55 | 102 |
| Ladies Hostel (old) | 55 | 148 |
| Brabourne Hostel for Ladies | 19 | 48 |

**ii) Occupancy** (to be given separately for men and women).

| Sl. No | Hostel | Occupancy |
|--------|--------------|-----------|
| 1 | Ladies hostel | 133 |
| 2 | Boys' hostel | 042 |

* **Recreational facilities in hostel/s like gymnasium, yoga center etc.**
- Reading Room, Prayer Hall & Recreation Hall
- Gymnasium facility, indoor stadium for yoga, aerobics and indoor games
- Internet facility
- News papers, magazines, periodicals and TV

   The hostels are located within the premises of the college thereby ensuring that students are very close to the academic facilities. The hostels are just within 100 metres distance from the Library, Gymnasium, sports facilities and laboratories of the college.

* **Broadband connectivity/ wi-fi facility in hostel/s**
   These facilities are available in the hostels.

**4.1.6 How does the college cope with the health related support services for its students, faculty and non - teaching staff on the campus and beyond?**
- There is a Health Care Centre in the college premises. It is open for a fixed time on all the working days
- Doctors visit the hostel everyday in the evening from 6pm to 8pm
- The students and staff are provided with health care card facility and Vaidyashree card facility respectively, thereby giving maximum concession in K.L.E Society's multi-speciality Dr. Prabhakar Kore Hospital and Research Centre, Belagavi
- Group Insurance Facility for all the students by New India Assurance Company Ltd.
- In case of emergency students are taken to K.L.E Society's multi-speciality Dr. Prabhakar Kore Hospital and Research Centre, Belagavi
- Special leave on medical grounds is provided to the staff members
- First-aid boxes and Fire extinguishers are available in all the departments
- Fitness gym is available in the campus to maintain the physical health
- Health and Hygiene awareness lectures are conducted by the Women Empowerment Cell to educate women students

**4.1.7 What special facilities are made available on the campus to promote interest in sports and cultural events?**

- We encourage students to participate in intra and inter institutional sports as well as cultural activities by sending them for various competitions like intercollegiate events (eg : basketball, volleyball, netball, football tournaments etc) and open events at district, state and national level (indoor and outdoor events), Youth Festival, Cultural Fest, etc.

- The physical director/ staff members accompany the students and take care of them during such tournaments /competitions. The institution also gives track suits, spikes and warm up shoes to the participants. The institution also looks after the expenditures of the students participating in sports, athletics, cultural and extra-curricular activities

- **The facilities provided to promote interest in sports are as below:**
  - 400 meters *cinder track* playground with *flood light* facility
  - Green lawn in the playground
  - The college has its own Olympic standard Swimming Pool of 50m x 21m x 1.8m dimension with changing rooms and spectator's gallery
  - Cricket, Football & Hockey ground, Basket-ball court, Volley-ball court, Throw-ball court
  - Shot-put throw, discuss throw, javelin throw, hurdles, long – jump and high – jump facilities are available
  - Gymnasium, Weight lifting training equipments, Medicine Ball, Indoor stadium, Table tennis court, wooden floored Badminton court, Chess, Carom facilities, etc.
  - Indoor and Outdoor games training is given to the students by the Physical Director of our college
  - In the morning hours fitness training is given and in the evening hours training is given for specialized games like Football, Basketball, Badminton, Table Tennis, etc. to the students
  - Indoor and Outdoor Annual sports are organized to encourage students participation
  - Special dietary requirements, Track suits and sports kits along with travelling allowances are provided for the participants

- **Facilities provided to promote interest in cultural activities**

  To encourage students' participation in cultural events various competitions like Dancing, Singing, Debates, Group Discussions, Skit, Mime, One Act play etc. are conducted. Students are deputed to participate in Zonal, District, State and National level competitions.
  - Sometimes the services of Professional Choreographer and Dramatist are availed for special competitions
  - College has a set of Musical Instruments

- Costumes expenditures and allowances are provided to all the participants
- Student Activities Association identifies the hidden talents of the students and train them for cultural activities and competitions
- The college auditorium is used to organise students cultural meets, intra/inter collegiate cultural competitions
- **Other support facilities for participation in sports and cultural events:**
  - The college honors two outgoing students as *BEST BOY* and *BEST GIRL* based on his/her achievements in sports and cultural events along with academic performance
  - Regular class-attendance of the students participating in sports and cultural programmes during working days is condoned
  - Students participating at University /State /National level are recognized and rewarded with certificates and trophies on the College Annual Day
  - Fee concessions and preference in admission to sports persons are provided

## 4.2 Library as a Learning Resource

**4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student /user friendly?**

Yes,

- **Composition** :

| Sl. No. | Designation | Position |
|---------|-------------|----------|
| 1 | Principal | Chairman |
| 2 | Librarian | Secretary |
| 3 | Five Staff Members | Members |
| 4 | One Student | Student Member |

- **Significant initiatives** :

For the healthy academic growth of the college library is a source of knowledge. The maintenance and functioning of the library are carried out under the guidance of the Library Advisory Committee. They discuss and recommend the infrastructural and academic requirements of the library. Further strategic plans are made so that the facilities are utilized to the optimum extent by the faculty and the students.
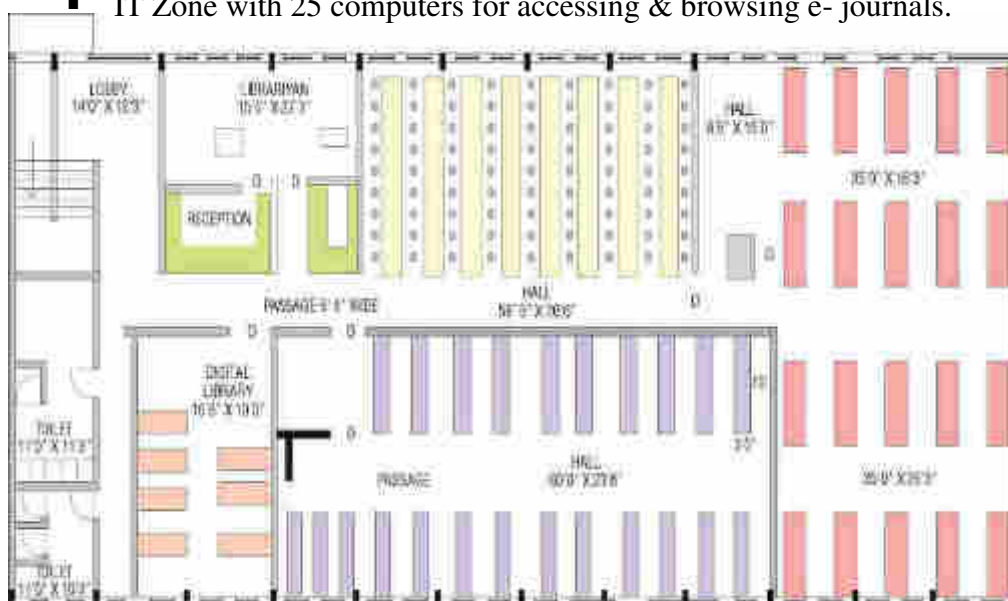
Some of the significant initiatives are:

- Availability of large number of interdisciplinary books, Journals and e - Journals

- Availability of more number of *PSLL* books
- Providing more books to meritorious students
- Addition of computers with internet facility
- College has access to 725 e-journals through *Delnet*
- Digital  library
- Unlimited internet access to staff and students in the library
- Convenient  facilities for disabled students
- *OPAC*
- **Earn while you Learn** scheme for students
- Orientation programme for freshers regarding library facilities
- Ensuring adequate and student friendly Book Bank facility

**4.2.2  Provide the details of the following :**
* **Total area of the library (in Sq.Mts)**      : 557.62 Sq mts.
* **Total seating capacity**                     : 250
*  **Working hours (on working days, holidays, before examination days, during examination days, during vacation)**
  - Working days                  : 09.00 am  to 6.00 pm
  - Holidays                      : 01.00am to 04.00 pm
  - Before examination days       : 10.00 am to 6.00 pm
  - During examination days       : 9.00 am to 9.00 pm
  - Vacation                      : 10.00 am to 6.00 pm
  -  Sundays                      : 1.00 pm to 5.00 pm
* **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e - resources).**
  - IT Zone with 25 computers for accessing & browsing e- journals.



**FIRST FLOOR PLAN (LIBRARY)**

* **Access to the premises through prominent display of clearly laid out floor plan; adequate signage; fire alarm; access to differently-abled users and mode of access to collection.**
* Access to the collection : Delnet, OPAC
* Signage boards are displayed
* Braille  literature is available
* Fire alarm facility is available
* Newspaper display boards are provided in the library

**4.2.3 Give details on the library holdings          Total No.**
|  |  |  |  |
|---|---|---|---|
| a) | Print (Books, back volumes and thesis) | : | 38,472 |
| b) | Non Print (Microfiche, AV) | : | 100 |
| c) | Electronic (e-books, e-journals) | : | 725 |
| d) | Special collection  (eg. Text book, Reference books, standards, patents) | | |
| i. | Text book | : | 9130 |
| ii. | Reference books | : | 29342 |
| iii. | Manuscripts | : | 05 |
| iv. | Braille Scripts | : | 04 |

**4.2.4 What tools does the library deploy to provide access to the collection?**
* OPAC: Yes
* Electronic Resource Management package for e – journals: Yes
* Federated searching tools to search articles in multiple databases:Yes
* Library Website: Yes
* In-house/remote access to e-publications:  Nil

**4.2.5 To what extent is the ICT deployed in the library?**
* **Library automation**                    : Fully automated
* **Total number of computers for public access**  : 27
* **Total number of printers for public access**   : 05
* **Internet band width speed**              : 1 MBPS
* **Institutional Repository** : Own publication repository has been done
* **Content management system for e-learning**  : **Nil**
* **Participation in Resource sharing networks/consortia (like Inflibnet)**   : Delnet

**4.2.6 Provide details (per month) with regard to**
* **Average number of  walk-ins**            : 2,500
* **Average number of book issued/returned**  : 3000
* **Ratio of library books to students enrolled**  : 53 : 1

* **Average number of  books added during last three years** : 1000
* **Average number of  login to OPAC** : 70
* **Average number of  login to e-resources** :15
* **Average number of  e-resources downloaded/ printed** : 50
* **Number of information literacy trainings organized** : 02
    * Induction analysis: Once in a year
    * Demonstration of  Delnet Usage: Twice a year

## 4.2.7 Give details of the specialized services provided by the library

* **Manuscripts:** Five
* **Reference:** Books, Encyclopedia, Dictionary, Yearbooks, Competitive examination books, Periodicals, Ph.D. theses and M.Phil. dissertation
* **Reprography :** One
* **ILL (Inter Library Loan Service)** : The Library is linked with Delnet and need based service with other institutions
* **Information Deployment and Notification :**
* List of new titles / new arrivals are displayed
* Information related to current issues, competitive exams, etc., is displayed
* Paper clippings on job opportunities and highlights are displayed
* **OPAC**: OPAC facility is available
* **Internet Access**
* All the systems in the library are connected with high speed internet facility to facilitate the access of online databases and other academic and research materials
* Delnet facilities are made available to access e-resources to all library users
* **Downloads**
  Students and staff are allowed to download articles and other academic materials and copy the downloaded materials in CDs.
* **Print outs**
  As per requirements of students and staff print out facility is available. There are five printers in library for the purpose.
* **Reading list/Bibliography compilation**
  Online OPAC system helps the users to check Reading list.
* **In-house/remote access to e-resources**
  In-house/remote access to e-resources is available in our library.

* **User Orientation**
  ▪ Induction analysis: Once in a year
  ▪ Demonstration of Delnet Usage : Twice a year
* **Assistance in searching Databases**
  OPAC
* **INFLIBNET/IUC facilities: Nil**

**4.2.8 Provide details on the annual library budget and the amount spent for purchasing new books and journals.**

| Particulars | Amount spent in ₹ | | | |
|---|---|---|---|---|
| | **2010-11** | **2011-12** | **2012-13** | **2013-14** |
| **General** | 1,29,387 | 1,21,130 | 1,16,480 | 70,233 |
| **UGC** | 1,00,30 | 1,55,813 | 1,26,301 | 1,70,368 |
| **PSLL** | 21,330 | 26,273 | 26,526 | 20,913 |
| **BCA/MCA** | 17,818 | 2,16,176 | 48,332 | 1,33,970 |
| **Journals** | 1,400 | 1,500 | 13,000 | 9,000 |
| **Total** | **2,70,244** | **5,20,892** | **3,30,639** | **4,04,484** |
| **Alloted Budget** | 1,69,900 | 3,65,000 | 2,04,300 | 2,34,100 |



**4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services.**
Yes,
* Every year feedback is obtained through questionnaires
* Feedback through suggestion box kept in the library
* The feedback of the users is analyzed by the Library Committee and suggestions received are implemented
* **The following are the improved services :**
  ▪ Increase in number of reference books and journals.
  ▪ Library working hours are extended.

- Every day book lending and borrowing facility is facilitated
- Book lending and borrowing durations are extended
- Free internet browsing, Wi-fi Internet facility are the visible evidences of improvement in library services

**4.2.10 List the infrastructural development of the library over the last four years.**

| Sl. No. | Particulars | Quantity |
|---------|-------------|----------|
| 1 | Computers | 20 |
| 2 | Chairs | 20 |
| 3 | Table | 20 |
| 4 | CCTV | 02 |
| 5 | e-Resources | 02 |

**4.2.11 Did the library organize workshop/s for students, teachers, non teaching staff of the College to facilitate better Library usage?**

Yes,

- Induction analysis: Once in a year
- Demonstration of Delnet Usage: Twice a year

**4.3 IT Infrastructure**

**4.3.1 Does the college have a comprehensive IT Policy addressing standards on IT Service Management, Information Security, Network Security, Risk Management and Software Asset Management?**

Yes,

- For risk management additional hard disk of one TB is available for backup
- Servicing of IT instruments and facilities is looked after by department of BCA and MCA. However, services of experts from outside are also availed if needed
- The department of BCA and MCA have upgraded from propriety software to Free Open Source Software (FOSS)
- Anti-Virus and Net protector are used to protect the systems
- In order to manage software asset, book keeping method is used where all the details of assessable software and their disposals are recorded
- For administrative information security user level authentication access is followed
- Students avail Wi-Fi facility through secured authentication

**4.3.2 Give the details of the college's computing facilities (hardware & software)**

- **Number of systems with configuration : 182**
  - **i.** Digital Vision- **BCA – 65** and **MCA – 30**
  - **ii.** College office, IQAC, Placement Cell, Library, Examination Section & All departments : **87**

- **Computer-student ratio :**

| Course | Ratio |
|--------|-------|
| B.Sc. | 1:7 |
| BCA | 1:1 |
| M.Sc. | 1:2 |
| MCA | 1:1 |

- **Dedicated computing facility:**

| Course | Nos |
|--------|-----|
| B.Sc./M.Sc. | 87 |
| BCA | 65 |
| MCA | 30 |

- **LAN facility** :
  - **i.** Digital vision lab: **DLINK DES-1024D-24 PORT (4 QTY) and DLINK DES-1024D – 16 PORT (1 QTY)**
  - **ii.** MCA lab: **DLINK DGS-1024D-24 PORT (1 QTY ) and DLINK DES-1016D – 16 PORT (1 QTY)**
  - **iii.** College office, Department of Zoology, Examination Section, Computer Lab and Library

- **Wi-fi facility** :
  - **i.** Digital Vision Lab: **DLINK DIR-165(1QTY) ROUTER for wi-fi.**
  - **ii.** MCA lab : **MY DLINK 605(1 QTY) ROUTER for wi-fi**

- **Proprietory software/ Open source software :** Windows XP/7, Ubuntu, Fedora, OSS, Tally, Oracle, Java and **.**Net

- **Number of nodes/ computer with internet facility :** 160 PCs

- **Any other :** Digital classrooms facility, LCD Projectors and printers

**4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?**

- In the beginning of every academic year based on the revision/ update of syllabus and requirements of the students based on work load/projects/training, etc., the institution plans and upgrades its computing system. Presently Wi–Fi is in BCA,MCA and main building of the college
- Upgradation of propriety software to open source softwares
- Associated facility: Upgradation of hardwares. Facilities like projectors, printers, portable hard disk and RAMs are provided
- Regular upgradation of software in examination section

**4.3.4 Give details on access to online teaching and learning resources and other knowledge and information provided to the staff and students for quality teaching, learning and research.**

- Opportunity is provided to faculty and students to use the e-library of the college
- ICT based teaching facilities in a good number of classrooms.
- Learning resources through internet facility like simulations, videos, PPTs, etc., is enabled
- Online learning on various technologies are used by the students.
- Every department has internet facility along with laptops and LCD projectors
- Delnet and Open Access Journals are used for research activities
- Every year computer literacy programme is conducted for teaching and non-teaching staff for making them acquainted with ICT based teaching and learning

**4.3.5 Give details on the ICT enabled classrooms/learning spaces available within the College and how they are utilized for enhancing the quality of teaching and learning.**

- Classrooms are equipped with LCD projectors and smartboard
- There are three computer laboratories with highend computers and internet
- Well equipped Auditorium
- Wi-Fi facility

**Utility:**

- Staff members have adopted computer aided teaching
- Teachers access internet , e-journals, scan photographs and prepare computer aided teaching plans
- Students also use computers for PPT presentations, seminars, projects, etc.
- Students attendance is monitored by OPTRA/CMS
- Web based attendance everyday
- Biometric attendance system is adopted

**4.3.6 How are the faculty facilitated to prepare computer aided teaching-learning materials? What are the facilities available in the College or affiliating University for such initiatives?**

- Every department has internet facility along with laptops and LCD projector
- e-resources are available in our library through Delnet and google books
- Every year computer literacy programme is conducted for the faculty to acquaint them with ICT based teaching-learning
- Simulation through animation

**4.3.7 How are the computers and their accessories maintained? (AMC, etc.)**

- Optimum working condition of all accessories is ensured through annual maintenance contracts (AMC)
- All the computers are maintained through system administrator (Technical staff)
- Servicing of IT instruments and facilities is looked after by department of BCA and MCA. However services of experts from outside are also availed if necessary

**4.3.8 Does the College avail of the National Knowledge Network connectivity directly or through the affiliating University? If so, what are the services availed of ?**

- **No.**

**4.3.9 Provide details on the provision made in the annual budget for update, deployment and maintenance of the computers in the College?**

- There is a separate head for making provision for maintenance, updating and deployment of computers and other peripherals of the college

**Details of budget allocations for computer maintenance**

| year | Allotted budget (in ₹) |
|---|---|
| 2010-11 | 61,633 |
| 2011-12 | 27,099 |
| 2012-13 | 47,647 |
| 2013-14 | 47,705 |

**4.4  Maintenance of Campus Facilities**

**4.4.1 Does the College have an Estate Office / designated officer for overseeing maintenance of buildings, classrooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.**

**Yes,**

- Engineering section of the K.L.E Society looks after the major repair works of the assets and the services of the institution, where as minor repairs and maintenance of the equipments are taken care of by employing staff on part-time basis
- The system administrator looks after the maintenance of computers and peripherals

- Staff members volunteer themselves for looking after the cleanliness of class rooms and laboratories
- Support staff of various labs. takes care of maintenance of records, stock and other equipments of the laboratories
- Staff rooms and wash rooms are well maintained
- Parking facility is efficiently maintained by annually renewed contract employees
- The college compound wall is bordered inside with tall trees and a stretch of green lawn thus making it eco-friendly
- Segregation of dry and wet garbage at the source and its proper disposal

### 4.4.2 Does the College appoint staff for maintenance and repair? If not, How are the infrastructure facilities, services and equipments maintained? Give details.

Yes, the college has appointed:
- System Administrator
- Generator operator
- Electrician
- Plumber
- Carpenter
- Gardener
- Scavenger
- Security Guards

    for the maintenance and repair of various facilities available in the college campus. All these services are also supervised by the Resident Engineer appointed by our K.L.E Society
- Departmental laboratories are maintained by faculty with the help of support staff of the respective departments
- Maintenance of each building on the campus, including classrooms, labs., seminar halls, playgrounds etc. is supervised by the support staff

    Wardens, support staff, mess contractors and sanitary staff is appointed for maintenance of hostels.

## Criterion-V: STUDENT SUPPORT AND PROGRESSION
## 5.1 Student Mentoring and Support

### 5.1.1 Does the College have an independent system for student support and mentoring? If yes, what are its structural and functional characteristics?

Yes, institute has an independent Student Support and Mentoring System in the form of various committees and units. The student support system comprises Management, Academicians, Principal, HoDs and Conveners of various committees, mentors, hostel wardens, administrative support staff, student representatives, parents and alumni.

The student support system functions through several units such as Autonomous Governing Body, Academic Council, Finance committee, Board of Studies, IQAC, Mentoring System, Women Empowerment Cell, Placement and Counseling cell, Student council, Gymkhana and Students Activities / Associations, Anti ragging committee, SC/ST Cell, Scholarship committee, Discipline Committee, NCC, NSS, YRC, RRC and students' consumer society.

These committees and organizational units provide effective independent system for students' support and mentoring. Through these committees, many opportunities are provided to students in academic, co-curricular, extracurricular, sports and games to develop their soft skills, communicative skills, leadership qualities and excel in the fields of their interest.

Mentor system envisages mentoring of students in academic, personal, psychological and physical growth and skill development. Mentors identify the slow learners, arrange for remedial coaching and counsel them if needed. Mentors periodically provide information about students' performance to their parents through SMSs. It organizes parent-teacher meet and addresses the responsibility of parents in shaping the personality of their wards and need to support the institution in holistic development of students.

Administrative staffs with the help of faculty members distribute identity cards, health care cards; bus passes, and provides the details regarding availability of scholarships to the students.

Placement Cell organizes lectures on soft skills enhancement, communication skills, career guidance, behavioural etiquettes and organizes campus interviews and entrepreneurship development programmes.

NSS and NCC activities provide the sense of social responsibilities, citizenship and develop leadership quality, along with discipline and community orientation.

Hostel warden monitors discipline and other student related issues in the hostel. Maintenance of amenities and food quality are the main responsibilities of the warden.

Student activities committee encourages the students to take part in co-cultural activities, debate, elocution and fine arts to promote competitive team spirit.

Gymkhana committees ensure the students' participation in sports and athletic activities. During the last four years **Fourty Two** students of our college were selected as University Blues and represented the parent university in inter university sports meets.

Women empowerment cell and Ladies Association provide ample opportunities to lady students to excel in different fields. **Seventeen** lady students were selected as University Blues during this accreditation cycle.

Feedback committee collects the feedback on academic and infrastructural facilities from students, alumni and parents and discusses the feedback outcomes in the staff – meetings.

In the orientation programme for freshers; students are informed about the facilities, support systems available to them and also educates them about the consequences of social evils like sexual harassment and ragging. This programme is also used as a talent-hunt and encourages the students to take part in cultural and sports activities of their interest.

The structural and functional characteristics of student support and mentoring system available in our institution are as follows:

- **Autonomous Governing body** –
  Composition: Management representative -- Chairman
  
  | | | |
  |---|---|---|
  | UGC nominee | -- | Member |
  | State Government nominee | -- | Member |
  | University Nominee | -- | Member |
  | Educationist / Industrialist | -- | Member |
  | Two senior faculty members | -- | Members |
  | Principal | -- | Member Secretary |

**Functions of Autonomous Governing Body:**
  - Determine the Fee structure for each academic year on the recommendation of Finance Committee
  - Instituting scholarships, medals, prizes and certificates on the recommendation of Academic Council of the college
  - Approve the new programmes of study (new courses such as new combinations and certificate courses)

- **Academic Council:**
  Composition: Principal – Chairman
  Nominee of the parent University
  Subject Experts from Industry / Alumni - nominated by the Governing Body.
  All the heads of Departments
  Four senior faculty members

**Functions of Academic Council:**
- To scrutinize and approve the proposals with or without modifications of the Board of Studies with regard to courses of study, curricula and syllabi
- To approve the academic regulations and evaluation methods
- To make regulations for sports and extra-curricular activities
- Recommending to the Governing Body regarding introducing new programmes of study
- Making recommendations to the Governing Body regarding instituting the scholarships, prizes and medals and frame regulations for the award of the same

- **Finance Committee:**

Composition: Principal – Chairman

         Nominee of the Governing Body

         Charted accountant

         Senior faculty member

         Office Superintendent

**Functions of Finance Committee:**
- Budget preparation relating to the grants received and to be received from UGC
- Preparation of revenue and capital budget of the college for the forth coming year
- Fixation of examination remuneration and getting approval from Governing body
- Making arrangements for conduct of audit of books of accounts

- **Board of Studies:**

Composition: HoD of the concerned department is the Chairman.

         One subject expert nominated by the Vice- Chancellor

         Two subject experts nominated by the Academic Council.

         One member from the industry / corporate / post graduate alumnus.

         Faculty members of the department are members.

**Functions:**
- To prepare the syllabus of the course
- Preparing the syllabus for Certificate courses
- Suggest the methodology for innovative teaching
- Suggest the names of examiners to Academic Council
- Coordinate the research, teaching and extension activities
- Preparation of the blue print of question paper pattern

- **IQAC:**

  Composition:Principal – Chairman

  Management Representative

  NAAC Co-ordinator

  Heads of all the Departments

  Office Superintendent

  Representatives from parent / alumni.

  Student representatives

**Functions:**

- To set the benchmarks for various academic and extracurricular activities
- Dissemination of information about college programmes to stakeholders
- To frame the guidelines for admission
- To organize Seminars / Conferences / Workshops
- Organization of orientation course and Induction Analysis for freshers
- Acting as Nodal Center for all activities of the Institute
- Preparation/submission of AQAR and SSR for NAAC Accreditation
- To co-ordinate with all Departments in motivating the students and teachers to take up research oriented projects and implementation of quality sustenance initiatives

- **Admission Committee:**

  Composition:Principal

  Senior facult member – Chairman

  Few faculty members

  One office staff

- To monitor the selection process
- Help the administrative staff in the process of admission

- **Student council:**

  Composition:Principal - President

  Senior faculty - Vice–Presidents (Gymkhana and Student activities)

  Faculty members are nominated as Chairmen of various committees and associations

  Student representatives are nominated as secretaries and joint secretaries

  Student representatives from all classes are nominated based on academic merit and extracurricular activities

**Functions**

- Disseminating information to the students about the Gymkhana activities and students' activities
- Organization of students' activities and extracurricular activities
- Organization of various association activities

- **Student Mentoring system-**
  Composition:Senior faculty member as Coordinator
  Faculty members as mentors
**Functions:**
  - Each mentor will have maximum of 25 students allotted to him/ her
  - Recording academic progress and updating the ward's progress and informing the parents through SMS and also in the Parent-Teachers meet
  - Monitors the behaviour and discipline of the students
  - Identifies the need for remedial coaching
  - Monitoring the attendance and sending the attendance report through SMS to the parents
  - A mentor meets students regularly and counsels them, if needed
- **Attendance Committee:**
  Composition:Senior Faculty member as Chairman
  HoDs of all departments
  All mentors
**Functions:**
  - Maintainanace of records of attendance
  - Informing the parents about their wards attendance through SMSs
  - Counsel students if needed
- **Time Table Committee:**
  Composition: Senior faculty member as Chairman
  All HoDs as members
**Functions:**
  - To prepare the time table of the academic year
- **Administrative Support Staff:**
  Composition:Principal
  Office Superintendent
  Office staff and support staff.
**Functions:**
  - Administrative activities
  - Admission process
  - With the assistance of faculty members arrange for the distribution of identity cards, health care cards, examination hall tickets, marks cards, bus passes, Teachers day and Army day stamps, scholarships etc.
- **Gymkhana Committee:**
  Composition: Principal – President of Gymkhana
  Senior faculty - Vice President
  Faculty members as Chairmen of various committees
  Physical Director
  Student representatives

**Functions:**
- Assisting the Physical Instructor in the conduct of various sports activities
- Arranging experts for coaching and selecting the teams to represent the institute for various tournaments
- Deputing the faculty members as team managers

- **Association Committees**
  
  Composition: Faculty members as Chairmen
  
  Student representatives as secretaries

**Functions:**
- Conduct of guest lectures
- Arranging Study tours/industrial visits
- Organizing Seminars / workshops
- Encouraging the students' participate in paper presentation science exhibition, student projects, quiz, debate, etc.

- **SC/ST Cell**
  
  Composition: Principal- Chairman, Four faculty members and
  
  Two student representatives

**Functions:**
- Informing the students about the availability of scholarships and other benefit
- Monitoring the overall growth of SC/ ST/ OBC / Minority students

- **Placement and Career Counseling cell**
  - Skill development Programmes
  - Coaching for campus placements / competitive examinations
  - Career guidance through experts
  - Conducting entrepreneurship programmes
  - Infrastructural and other support facilities are provided to the companies to conduct the campus interviews for recruitments
  - Display of employment information on notice boards

- **Women Empowerment cell and Ladies Association**
  - Promoting gender equality
  - Looking after infrastructural facilities available to lady students
  - Making students aware of health and hygiene
  - Arranging guest lectures on women related issues and women rights
  - Ensure safety and security to lady students
  - Conducting various functions and competitions for lady students

- **Examination Committee:**
  - Examination schedule
  - Conduct of Internal tests and Semester End Examinations
  - Announcement of examination results on scheduled dates

- **Anti- Ragging Committee:**
  Composition:Principal - Chairman
                       Senior faculty members,
                       Police Inspector of the Juridctional Police station
                       Hostel warden and two parent members
    - Taking measures to ensure ragging free campus
    - To spread awareness among the students about the consequences of ragging
- **Youth Red Cross & Red Ribbon club:**
    - Creating awareness about HIV and AIDS
    - Organizing blood donation camps
- **NCC /NSS**
  Functions:
    - Developing leadership qualities
    - Motivating the students to join defence services
    - Inculcating social responsibilities and good citizenship
    - Conduct of community oriented extension activities
- **Scholarship Committee**
    - Intimating about various types of scholarships available
    - Intimating the dates for submission of application forms
    - Issue of application forms and guiding the students for filling of the forms
- **Student Consumer's Society**
    - To provide stationaries, journals assignment books, etc., at subsidized rates to the students in the college premises itself

## 5.1.2 What provisions exist for academic mentoring apart from class room work?

- All the faculty members are available in the departments for mentoring, even after the class hours
- **Mentor system:** A mentor is incharge of a group of 25 students. He/She monitors their academic growth and also acts like their local guardian. He/She keeps informed their parents about their test marks, attendance etc., through regular SMSs
- Staff members act as class teachers of a division for mentoring in both academic and personal difficulties, if any. They identify the interests of students and encourage them to participate in various co-curricular and extracurricular competitions
- Faculty members guide the students in carrying out projects, publications of papers, presentation of papers, etc.
- Departmental Associations organize guest lectures, seminars, visit to research centers / industries and study tours that provide students an exposure to the developing trends outside the class room environment

- Apart from class work, students are encouraged to participate and present papers in national / state level seminars, conferences and workshops
- Academic guidance is provided to students for debates, elocutions, essay – writings and science exhibition
- ICT facilities to students for the preparation of power point presentation for seminars and projects
- Internet facility to update the knowledge
- Orientation programme / Induction analysis and Bridge course are conducted for freshers
- Remedial classes for slow learners / Enrichment classes for advanced learners are regularly conducted
- Certificate Courses provide additional knowledge, skills and employability
- Hostel wardens act as local guardians in solving the academic / personal problems of inmates of the hostel

**5.1.3 Does the College provide personal enhancement and skill development schemes for students? If yes, describe techniques employed e.g., career counseling, soft skill development etc.**

Yes, institution offers various programmes for personal enhancement and skill development schemes for students.

'Personality development and Communication skills', 'Indian Constitution and Humen Rights' and 'Technical Communication and Ethics' are inbuilt in the curriculum.

'Computer Applications' is a compulsory subject for all UG students.

English Department conducts certificate course on Communicative English.

COP on Soft skills and MLTC (Medical Laboratory Technician Course) are also conducted in the college.

Placement cell and Women Empowerment cell under the guidance of IQAC conduct various programmes for overall development of the students. They are:

- Orientation and Induction analysis for freshers
- Bridge course for freshers
- Soft skills development programme by inviting experts
- Career counseling on job opportunities
- Training by experts to face the interviews
- Competitive examination coaching- motivating the students to appear for competitive examinations
- NET/SLET Coaching for PG students
- Entrepreneurship programme
- Defense service- coaching for 'SSB Interview Clearance'

- Brain marathon / storming
- Yoga classes
- Twenty two certificate courses to promote skills, self confidence and employability
- Remedial coaching for academically weak students
- Programmes on women related issues  by Women Empowerment cell

Associations and departments organize competence enhancement programmes such as:

- Encouraging the students to present seminars by using ICT
- Encouraging the students to organize subject association functions and guest lectures
- Organizing debate / essay / power point presentation competitions
- Opportunity is given to the topper at the UG level and students at PG level to take classes to enhance their self confidence
- Collaboration with centers of higher learning/ institute to take up research oriented projects
- Motivating the students to take active part in Youth Red Cross and Red Ribbon Club activities
- Encouraging students to involve themselves in extension activities
- Motivating students to join NCC and NSS, and take part in sports and cultural activities for their overall personality development
- Organizing industrial visits and study tours

**5.1.4. Does the College publish its updated prospectus and hand book annually? If yes, what are the activities / information included / provided to students through these documents? Is there a provision for online access?**

Yes, the institution publishes updated versions of prospectus and handbook at the beginning of every academic year.

**PROSPECTUS:** Contains the institution information relating to :

- K. L. E. Society  and  the Institution
- Vision and Mission of the college
- Functioning of Autonomous system
- Subject combinations available in the college
- Fee concession details
- Government scholarships and endowment cash prizes
- Education loan facilities
- Rules and regulations of admission, examinations, etc
- Sports facilities available in the college
- Library facilities
- Facilities like Bank, Post Office and Canteen
- Hostel facilities for boys and girls and its fee structure
- Health care center

- NCC, NSS, YRC and RRC information
- Information about felicitation to rank holders, University blues, outstanding NSS volunteers and NCC cadets

**HANDBOOK-** Provides the information relating to:

- Academic calendar
- Names of faculty members
- Detailed syllabus of each subject and the list of reference books
- Rules and regulations of examinations
- List of Institutions of K.L.E Society

**Online access:** Yes, college website is periodically updated with events and examination dates / result**s.**

**5.1.5 Specify the type and number of scholarships / freeships given to students (UG/ PG/ M.Phil. / Ph.D./ Diploma/ others in tabular form) by the College Management during last four years. Indicate whether the financial aid was available on time.**

Financial assistance from the Institution is extended to meritorious and needy students. Endowment cash prizes for meritorious students are instituted by alumni, present and retired teachers and philanthropist donors.

RLSI Nidhi assistance is available for meritorious and economically weak students. Faculty members are the sole contributors to this fund.

Financial Assistance of ₹**2,15,064** was extended to **132** meritorious and needy students.

Table showing RLSI Nidhi and endowment cash prizes:

| Year | RLSI Nidhi | | Endowment Cash Prizes | |
|---|---|---|---|---|
| | No. of Beneficiaries | Amount in ₹ | No. of Beneficiaries | Amount in ₹ |
| 2010-11 | 15 | 30,000 | 10 | 11,666 |
| 2011-12 | 18 | 36,000 | 10 | 11,666 |
| 2012-13 | 22 | 41,000 | 11 | 15,666 |
| 2013-14 | 13 | 13,000 | 17 | 22,066 |
| 2014-15 | 16 | 34,000 | -- | -- |
| Total | 84 | 1,54,000 | 48 | 61,064 |
| Grand Total = ₹ 2,15,064.00 | | | | |

**'Earn while you Learn'** is the unique scheme for needy students. Students can work in the library on hourly basis while learning.

**5.1.6. What percentage of students receives financial assistance from the State Government, Central Government and other national agencies? (e.g. Kishore Vaigyanik Protsahan Yojana (KVPY), S N Bose Fellow, etc.)**

Percentage of students (Aided) receiving financial assistance from the Government in the last four years is given below.

| Year | Total Amount in ₹ | No. of Beneficiaries | Total No. of Students | % of Beneficiaries |
|---|---|---|---|---|
| 2013-14 | 8,33,791 | 430 | 710 | 60.56 |
| 2012-13 | 4,33,651 | 221 | 698 | 31.66 |
| 2011-12 | 8,34,171 | 398 | 668 | 59.58 |
| 2010-11 | 4,35,894 | 301 | 639 | 47.1 |
| Total | 25, 37,507.00 | 1,350 | 2,715 | 49.72 |

Miss. Juhi Singh of B.Sc-I was awarded with Kishore Vaigyanik Protsahan Yojana in the Academic year 2014-15 and is getting a scholarship of ₹5000/- every month.

**5.1.7 Does the College have an International Student Cell to cater to the needs of foreign students? If so, what measures have been taken to attract foreign students?**

No, the college doesn't have foreign students.

**5.1.8 What types of support services are available for**

∗ **overseas students:**

The institution has no overseas students.

∗ **physically challenged / differently abled students:**
- Scholarship for physically handicapped students
- Issue of sufficient number of books from the main library as well as from departmental library
- Special conveniences are there in the laboratories
- Ramps are provided
- Wheel chair is available for such students

∗ **SC/ ST, OBC and economically weaker sections:**
- SC/ST cell monitors the needs and progress of students
- These students are facilitated to avail following Government scholarships
  - Govt. of India Post Metric Scholarships to SC/ST students
  - Central Govt. BCM Scholarships to IIA students
  - Encouragement Scholarship for Minority students
  - Directorate of Minorities Scholarship (Muslim Students)
  - Govt. of Karnataka Post metric Scholarship to BC/BT students
  - Directorate of Minorities Scholarship for Jains
  - Fee concession for SC/ST and OBC students

- Financial assistance under Equal Opportunity Center from UGC
- Remedial classes for SC & ST students
- RLSI Nidhi assistance for economically weaker and needy meritorious students
- Special endowment cash prizes for meritorious SC / ST students
- PSLL books to economically weaker students
- ∗ **student participation in various competitions / conferences in India and abroad.**
- Financial support in the form of TA and DA to participate at University, State and National level conferences and competitions in co-curricular and extracurricular activities
- Encouraging students to present papers in Conferences/Seminars and extending financial support
- Coaching classes to prepare for competitive examinations
- Support services to the participants in cultural events
- Coaching for extra-curricular and co-curricular activities
- Shortage of attendance is condoned for the students representing the college at various co-curricular / sports competitions
- Special internal tests are conducted for such students
- Achievers are felicitated during the Valedictory function of the college
- ∗ **health centre, health insurance,  etc.**
- Health center:  Doctors from KLE's Dr. Prabhakar Kore Hospital and Research Centre visit Health center of the college everyday from 2:00 p.m to 3:00 p.m
- Our management is running 2420 beds multi speciality hospital. Students, hostel inmates and faculty can make use of services of the hospital
- A Doctor visits hostels every day from 6:00 p.m to 8:00 p.m.
- Health care insurance card is issued to all students
- All the students are covered under Student Safety Scheme of **New India Assurance Co.  Ltd**.  with the help of contribution by the staff
- Women Empowerment cell organizes health awareness programmes for lady students
- Detection of Blood groups by Zoology Department
- Every department has First Aid Box for primary treatment of injured

Table showing health care insurance Premium paid.

| Year | No. of Students | Premium Paid in ₹ |
|---|---|---|
| 2014-15 | 902 | 1,35,300 |
| 2013-14 | 845 | 1,26,750 |
| 2012-13 | 685 | 1,02,750 |
| 2011-12 | 763 | 1,14,450 |
| 2010-11 | 639 | 95,850 |

* **skill development (spoken English, computer literacy, etc.)**
- Personality development is inbuilt into the curriculum
- Spoken English certificate course is conducted by English Department
- Soft skills and entrepreneurship development programmes are organized by placement cell
- Basics of computer applications is a mandatory paper
- Workshops on higher computer skills like Web designing, Cloud computing & Web Development, Software testing & Database Administrator and Oracle are being conducted
- Brain Marathon and Neuro Linguistic program - Superman in You are also regular features
- Internet access for all students in the library and also in the departments
- Encouraging students to participate in Essay writing, Debate, Elocution and Quiz competitions to develop communicative skills
- Seminars / Power Point Presentation competitions are conducted on science themes and environmental issues to sharpen students' communicative skills
- Ladies Association conducts skill development programmes like spot painting, rangoli, sand art, best out of waste, bouquet making etc.
- Well equipped digital laboratory provides ample opportunities to develop computer skills

* **performance enhancement for slow learners / students who are at risk of failures and dropouts.**
- Individual counseling to slow learners by mentors and faculty members
- Remedial coaching classes for slow learners apart from regular classes
- Additional PSLL books, study materials and question bank to slow learners
- Special assistance with regard to assignments and tutorials
- Improvement tests for those who score less than requisite Internal Marks
- Monetary assistance to those in financial difficulties

* **exposure of students to other institutions of higher learning / corporate/ business houses, etc.**

Students visit institutions of higher learning for research oriented projects and to know the working methodology of advanced equipments and research methodology.
- Institution has collaborations with CEDOK, INSPIRE group Dharwad, Kanheri Education Dharwad, Dr. Prabhakar Kore Basic Science Research Centre Belagavi, KLE Pharmacy College, RMRC

Belagavi, KVK, Mattikoppa - Belagavi and Belagavi Oxygen (P) Ltd. for guidance and support to carry out projects

- Visit to Research Centers : Baba Atomic Research Centre, Mumbai, Atomic Power Station, Kaiga, Regional Medical Research Centre, Belagavi, Coffee Research Centre, Ooty, Biocentre Belagavi and Basic Science Research Centre, Belagavi
- Visit to University science departments, Science center, Technology & Engineering Institutions and industries to prepare projects

∗ **publication of student magazines**

- **College miscellany** provides an opportunity for students to publish their articles, stories, and poems and thereby encouraging the creative writers
- Two students have jointly published research paper in **International journal of Pharmacognosy and Phytochemical Research**
- Shri Manjunath Nandennavar of B.Sc- VI semester published self composed poems in the form of a book '**Ninneyentilla Nannuru**'. Staff members extended monetary help for its publication
- Publication of **articles** in newspapers: Mr. Shambuling Hiremath has published nine articles in Kannada News Paper

## 5.1.9 Does the College provide guidance / coaching classes for Civil Services, Defense Services, NET / SLET and any other competitive examinations? If yes, what is the outcome?

Yes**,**

- Placement Cell makes arrangements to provide necessary guidance and coaching from experts for entry into civil services/ defense services
- Coaching classes for NET/SLET for PG students started from the academic year 2013-14. Faculty and external subject experts are invited as resource persons
  Three students have cleared SLET (Mathematics) in 2014
- Defense services: SSB coaching for clearing SSB interview
  Three students have cleared SSB interview and now they are in the defense services

## 5.1.10 Mention the policies of the College for enhancing student participation in sports and extracurricular activities through strategies such as

∗ **additional academic support, flexibility in examinations**

- Special theory and practical classes are conducted for the students participating in sports / extracurricular activities
- Additional books are provided to such students
- Separate internal tests are conducted for them on the dates other than scheduled dates, if necessary

- Out of turn facility in Semester End Practical Examinations
- Their absence during participation in sports and extracurricular activities is condoned
* **special dietary requirements, sports uniform and materials.**
- Nutritional diet provided to sports persons during practice and participation
- Institution provides the sports kit, sports uniforms and spike shoes
- TA & DA and registration fees provided to those students who participate in University/ State/ National level events
- Separate Gym facility for girls and boys; from 6.00 am to 9.00 am for girls and 5.00 pm to 7.00 pm for boys
* **any other:**
- The college has the tradition of our students representing the University Teams. During last five years **forty two** students of our institution are selected as **University Blues** to represent University in Inter University tournaments
- The outstanding sports persons are felicitated
- As a talent hunt and encouragement to students to excel in extracurricular activities, our institution hosted K.L.E. Inter College Cultural Fest **"Srujana"** in the academic year 2012-13
- The college conducts annual athletic meet and intra-college inter class Basketball, Volleyball, Cricket, Football and Hockey tournaments
- Special coaching for sportsmen, athletics and team games
- Training and guidance by experts to students participating in cultural activities
- Costumes are provided for participation in cultural events like folk dances, Drama, Skits etc.

## 5.1.11 Does College have an institutionalized mechanism for placement of its students? What services are provided to help students identify job opportunities, prepare themselves for interview and develop entrepreneurship skills?

Yes, the Placement and Career Guidance Cell provides comprehensive quality guidance and resources in preparing students to meet the challenges of employment market**.**

**Mechanisms:**
- Display of information bulletins about campus interviews, competitive examinations and job opportunities
- Organizing campus recruitment drives
- Providing facilities for participation in and off the campus recruitment drives

### Services:

- Soft skill programmes like time management and personal grooming
- Training students to face interviews
- Arranging guest lectures and coaching from experts to develop leadership skills and personality development
- Library equipped with competitive examination books, newspapers, career magazines, etc.
- Conducting entrepreneurship programmes and certificate courses to develop enterprenuership capacity among the students
- Organizing workshops on advanced computer programming
- Coaching for SSB interview clearance to join Defense Service

**5.1.12 Give the number of students selected during campus interviews by different employers (List the employers and the number of companies who visited the campus annually for the last four years).**

List of the Companies / Employer visited the campus and
List of students selected by different employers

| Year | Name of the employer Visited the campus | Name of the employer other than our campus recruitment | No of Students Selected | Placed as Lecturers in various colleges | Total Placed |
|------|------|------|------|------|------|
| 2014-15 | Infosys | Wipro, TCS | 53 | 29 | 82 |
| 2013-14 | - | Infosys, Wipro, IBM, ADP Pune, ICICI, etc. | 55 | 21 | 76 |
| 2012-13 | DUISHE BANK | Wipro | 23 | 25 | 48 |
| 2011-12 | Wipro | Infosys, Wipro | 43 | -- | 43 |
| 2010-11 | Infosys. Wipro | IMB | 27 | -- | 27 |
| | | TOTAL | 201 | 75 | 276 |

**5.1.13 Does the College have a registered Alumni Association? If yes, what are its activities and contributions to the development of the College?**

Yes, Alumni Association is registered (**Society No. : DRL/SOR/BGM 116.**). It is active and contributes to the development of the institute.

- Every year alumni meet is organized for seeking suggestions of former students for the academic and constructive improvements for the holistic development of students
- Endowment cash prizes are instituted by our alumni for meritorious students
- Donation of books by alumni to the departmental libraries
- Alumni serve as members in IQAC and BOS and participate in curriculum updating

- The institution is proud of its alumni who are outstanding achievers in their chosen professions all over the world. Institution has mechanism to invite Alumni as resource persons to offer their expertise, guidance and opportunities available in various fields to students. Such alumni are honored and felicitated by the institution. The following alumni were befittingly honoured and felicitated on their contributions in various fields. Our students had an opportunity to interact with them
- Dr. Shivanand Patil, -Molecular Biologist, IOWA University, USA
- Dr. S. B. Dandin, Louis Pasteur awardee, Vice Chancellor, University of Horticultural Sciences, Bagalkot
- Shri. Vishnupant N. Misale, Senior scientist, ISRO, Bengaluru
- Shri Srinath Joshi, IPS Superintendent of Police Intelligence, Belagavi Zone
- Shri Mayureshar P. R.  Research Scholar, Indian Institute of Science, Bengaluru
- Shri M G Hiremath, Joint Commissioner, Commercial and Sales Tax
     The alumni have promised to share their expertise with the students and also assist them in their academic growth.

## 5.1.14 Does the College have a student grievance redressal cell? Give details of the nature of grievances reported and how they were redressed.

Yes, our college has grievance redressal cell
- Students can report grievances through the grievance boxes placed at different departments. Grievances also can be orally brought to the notice of authorities
- Most of the student grievances are redressed by the mentors and faculty members on the spot
- Every month grievance redressal cell takes the stock of student's grievances from mentors and redresses their grievances promptly
- Grievances about hostel, if any, are redressed by the hostel wardens

### Nature of grievances reported and redressed

| Grievences reported | Redressed |
| --- | --- |
| Extending working hours of library | During examinations library is open from 9.00am to 9.00pm |
| Issue of bus passes | College made arrangements with KSRTC to issue bus passes on the campus. |
| Additional internet facilities | In addition to the facilities available in the library and computer laboratories, internet facilities are provided to students in the departments. |

| Conduct of separate tests for those students who participate in extracurricular, NCC and NSS activities. | Conducted separate internal tests to such participants. Out of turn facility in Practical End Examinations |
|---|---|
| Book Bank Facility | Book bank facility provided to BCA & MCA students |

## 5.1.15 Does the College have a cell and mechanism to resolve issues of sexual harassment?

Yes, Discipline committee and Women Empowerment cell take care of issues of sexual harassment. However no such cases are reported.

**Mechanism:**

Disciplinary committee, Women Empowerment cell and anti-ragging committee constantly monitor the discipline on the campus.

In the Orientation programmes and guest lecture programmes on legal rights, students are made aware of the consequences due to ragging and sexual harassment.

**24x7 Helpline** is available for lady students in case of emergency

- Dr. (Smt) S. N. Banasode    :9448792522
- Dr. (Smt) V. R. Naik           :9900563018
- Dr. (Smt) J. S. Kawalekar    :9448025533

CCTV surveillance is at certain selected locations.

Round the clock security guards arrangement in the campus.

## 5.1.16. Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes, Anti-Ragging committee has been constituted as per the government norms. As such there are no instances of ragging.

## 5.1.17 How does the College elicit the co-operation from all stakeholders to ensure overall development of the students considering the curricular and co-curricular activities, research, community orientation, etc.?

For overall development of the students, co-operation of all the stakeholders is elicited in the following manner:

**Faculty**

- Faculty contributes to the overall development of students through their committed academic activities and their active participation in all the activities of the college
- Teachers improve their academic skills by publications and presentation of papers and attending conferences and seminars
- Interactions with parents in 'Parent- Teachers Meet'. Fruitful suggestions are taken for improvement

- Mentors report monthly attendance and test marks through SMS to their parents
- Mentor meeting twice in a semester to discuss about the students progress
- Faculty members and mentors counsel students
- Discuss the progress of the students during regular staff meetings
- Faculty takes active part in community orientation through extension activities by NSS, NCC and institution as a whole to develop the sense of social obligation and responsibilities
- Organizing conferences / seminars, etc., to provide sufficient exposure to students about the latest scientific development trends in research
- ICT based teaching and learning for better understanding
- Faculty members conduct cultural activities
- Faculty helps the Gymkhana Committee in conducting annual athletic meet and other sports events
- Faculty has instituted cash prizes for outstanding achievers
- Faculty contributes towards RLSI Nidhi
- Faculty contributed towards Students' Safety Insurance Scheme

**Parents**
- Parents shoulder their responsibilities towards their wards.
- Parents are informed about the performance of their wards and attendance reports through SMS which enable them to take care of their wards
- Parents actively participate in Parent - Teacher meetings
- Parents offer suggestions pertaining to curricular, co-curricular activities and certificate courses
- Parents give undertakings on the issues pertaining to discipline, ragging and mobile usage

**Students**
- Sincerity of the students
- Student council and student representatives of various committees coordinate curricular and co -curricular activities
- Students organize departmental functions
- Students are encouraged to take up research oriented projects
- Participation in social services, national festivals, Cultural events and sports
- Make use of online information and Delnet
- Enroll for certificate courses

**Management and Academicians**
- Members of Management and academicians serve on the Autonomous Governing Body, Academic Council, BoS, Finance Committee and IQAC

- Felicitate outstanding achievers during college valedictory function and also in KLE Founders Day Celebration
- Assist in organizing seminars and conferences

**Alumni**
- Alumni serve as members in academic bodies like IQAC and BOS
- Institute endowment Cash prizes for students
- Alumni offer their guidance to students to mould their career

## 5.1.18 What special schemes / mechanisms are in place to motivate students for participation in extra-curricular activities such as sports, cultural events, etc.?

- Talent search in the orientation programme conducted for freshers in the beginning of the academic year
- Academic flexibility by condoning the attendance during their participation
- Conduct of tests in other than scheduled time for those who remain absent due to their participation in sports and cultural events
- Out of turn facility at Semester End Practical Examinations
- Providing sports coaches and support services for cultural events
- Providing TA/DA, uniforms and equipments to students representing institute at University, State and National level competitions
- Conducting indoor and outdoor games and annual athletic meet
- Conducting league tournaments like Cricket, Volley ball, Football at intra college level
- Conduct of cultural events: drama, skits, music, classical dance, art, essay writing, etc.
- In the academic year 2012-13 institute hosted the KLE inter college Cultural Fest - **'Srujana'**
- Institute has the practice of honouring the winners in various competitions during Valedictory Function
- National festivals, Fresher's day and Farewell functions provide ample opportunities for students to exhibit their talents
- Motivating students to participate and excel in NCC and NSS activities

## 5.1.19 How does the College ensure participation of women in 'intra' and 'inter' institutional sports competitions and cultural activities? Provide details of sports and cultural activities in which such efforts were made?

- Our Physical Director being a lady, she encourages the lady students to take part in sports and extracurricular activities
- Separate timings for Gym facility and Physical fitness for lady students
- Conducting Yoga and meditation

- Student Activities Committee conducts cultural programmes during selection trials, on Fresher's day and on Fare-well functions
- Ladies association and Women Empowerment cell conduct various programmes, competitions and cultural events for lady students for the development of creative, aesthetic and artistic skills
- **Thirteen sports women** selected as **Universty Blues** to represent University in Inter University competitions
- Miss Radha Sanganaikar of B.Sc-III Sem got consolation prize in Classical Dance in   All India **South Zone Inter University cultural meet**

Achievements of women students in Sports

| Year | Participation at intra /inter Institutional | Achievements in Intercollegiate / University Level | University Blues |
|---|---|---|---|
| 2013-14 | 201 | **Winners-Hockey** | 04 |
| 2012-13 | 228 | ▪ **General Champion in KLE Inter College**<br>▪ **Runners up – Basket Ball**<br>▪ **Bronze – High Jump**<br>▪ **03- First Places**<br>▪ **02 -Second Places**<br>▪ **01-Third place**<br>▪ **02 - Fourth Places** | 05 |
| 2011-12 | 142 | ▪ **02 Silver medals**<br>▪ **01 Bronze medal** | O3 |
| 2010-11 | 132 | **Reached Finals in two events** | 01 |

Table showing participation and achievements of women in cultural event

| Year | Participation | Prizes Won | | | |
|---|---|---|---|---|---|
| | | Intercollegiate level | University level | State | National |
| 2013-14 | 172 | ▪1st Place- 02<br>▪2nd Place- 02 | ▪1st Place -03<br>▪2nd Place-02<br>▪3rd Place-01 | --- | --- |
| 2012-13 | 168 | ▪1St place- 03<br>▪2nd Place- 01 | ▪1st Place- 03<br>▪2nd Place-01 | --- | **Consolation in Bhartnatyam** |
| 2011-12 | 124 | ▪1st Place - 03<br>▪2nd Place-03 | -- | ▪1st Place -01<br>▪2nd Place-01<br>▪Consolation-01 (Sc. Exb.) | -- |
| 2010-11 | 132 | ▪1st Place- 05<br>▪2nd Place- 02<br>▪3rd Place- 01 | ▪1st Place-02<br>▪2nd Place-01<br>▪3rd Place-01 | ▪2nd Place-01(Sc. Exb.) | -- |

## 5.2 Student Progression

### 5.2.1 Provide details of programme-wise success rate of the College for the last four years. How does the college compare itself with the performance of other autonomous Colleges/ Universities (if available).

Autonomy of our Institute started from the academic year 2012-13. Prior to this, our college was affiliated to Karnatak University, Dharwad and there after on bifurcation, to Rani Channamma University, Belagavi. The percentages of results of last four years are the results of the Examinations of Karnatak University Dharwad and Rani Channamma University Belagavi.

**University Ranks:** Total Ranks from 2010 to 2014 = **14 Ranks**

|  | MAY 2010 | May-2011 | May- 2012 | May-2013 | May -2014 |
|---|---|---|---|---|---|
| **UG** | **03 Ranks** ($5^{th}$ , $9^{th}$ & $10^{th}$) | **01 Rank** ($6^{th}$ Rank) | **01 - Rank** ($4^{th}$ Rank) | **02 Ranks** ($4^{th}$ & $8^{th}$) | **02 Ranks** ($1^{st}$ and $9^{th}$) |
| **PG-Phy** | NA | NA | **01 Rank** ($1^{st}$ Rank) | **02 Ranks** $2^{nd}$ & $4^{th}$ | NA |
| **PG-Maths** | NA | NA | **02 Ranks** ($2^{nd}$ & $3^{rd}$ ) | -- | NA |
| **Total** | 03 | 01 | 04 | 02 | 02 |

### University Ranks

As against 50 Ranks since the inception, the College has secured 14 Ranks in the last five years

| Sl. No. | Year | Name of the Students | Rank |
|---|---|---|---|
| **UG** | | | |
| 1 | | Miss. Manorama V. Powar | V   K.U.D |
| 2 | 2010 | Miss. Nandita V Haladankar | IX   K.U.D |
| 3 | | Miss. Tejaswini B Dadanaikar | X   K.U.D |
| 4 | 2011 | Miss. Bharati Hukkeri | VI  K.U.D |
| 5 | 2012 | Miss. Naheen Akki | IV  K.U.D |
| 6 | 2013 | Shri Akash Goravar | IV   R.C.U |
| 7 | | Miss Gousia Deshnoor | VIII  R.C.U |
| 8 | 2014 | Miss. Sushma Desaimath | I     R.C.U |
| 9 | | Miss. Merita Carvalo | IX    R.C.U |
| **PG** | | | |
| 10 | | Miss. Sahana Sattigeri | I R.C.U  Physics |
| 11 | 2012 | Miss. Sana Uchgaonkar | II R.C.U  Maths |
| 12 | | Miss. Sana Mevegar | III R.C.U Maths |
| 13 | 2013 | Miss. Radhika Kokitkar | II R.C.U Physics |
| 14 | | Miss Poornima Kanti | III R.C.U Physics |

**Success Rate for last four years of B. Sc.-VI Semester and comparision with B.K. College Belagavi (neighbouring College).**

| Year | Appeared | Passed | Dist | I Cl. | II Cl. | Pass Cl | Fail | % | % of B. K College, Belagavi |
|------|----------|--------|------|-------|--------|---------|------|-----|------------------------------|
| 2010-11 | 134 | 110 | 83 | 20 | 07 | Nil | 24 | 82.01 | 82.2 |
| 2011-12 | 218 | 200 | 120 | 63 | 17 | Nil | 18 | 91.74 | 67.53 |
| 2012-13 | 229 | 203 | 139 | 54 | 01 | Nil | 26 | 88.64 | 87 |
| 2013-14 | 165 | 138 | 91 | 25 | - | 22 | 27 | 83.63 | 75.71 |

Average Percentage of last four years is **86.5%**

Average Percentage of Distinction is **73.5%**

Comparision of Results with B. K. College**.**



| | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 |
|--|-----------|-----------|-----------|-----------|
| RLSI | 82.01 | 91.74 | 88.64 | 83.63 |
| BK College | 82.2 | 67.53 | 87 | 75.71 |

**Success Rate for last four years of B.C.A.-VI semester**

| Year | Appeared | Passed | Dist | I Cl. | II Cl. | Pass | Fail | % | Gogte College Belagavi |
|------|----------|--------|------|-------|--------|------|------|-----|------------------------|
| 2010-11 | 79 | 71 | 55 | 16 | Nil | Nil | 08 | 90 | 92.86 |
| 2011-12 | 39 | 35 | 25 | 10 | Nil | Nil | 04 | 89.7 | 90.16 |
| 2012-13 | 76 | 71 | 28 | 27 | 02 | 14 | 05 | 93 | 90.91 |
| 2013-14 | 78 | 77 | 52 | 19 | 6 | Nil | 1 | 99 | 93.00 |

Average Result of last four years is **93%**

Percentage of Distinction is **63%**



Comparision of BCA result with Gogte College, Belagavi

| | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
|--|---------|---------|---------|---------|
| RLSI BCA | 90 | 89.7 | 93 | 99 |
| Gogte College | 92.86 | 90.16 | 90.91 | 93 |

**Result analysis for last three years of PG.**

| Year | PG | Appeared | Passed | Dist | I Cl. | II Cl. | Pass | Fail | % |
|------|----|----------|--------|------|-------|--------|------|------|---|
| 2011-12 | Maths | 18 | 18 | 15 | 03 | - | - | - | 100 |
|         | Phy | 20 | 11 | 02 | 08 | - | 01 | 09 | 55 |
| 2012-13 | Maths | 30 | 26 | 09 | 14 | 03 | - | 04 | 86.6 |
|         | Phy | 25 | 21 | - | 19 | 02 | - | 04 | 84 |
| 2013-14 | Maths | 36 | 29 | 08 | 21 | - | - | 07 | 80.56 |
|         | Phy | 28 | 22 | 08 | 14 | - | - | 06 | 78.57 |
|         | MCA* | 2 | 2 | 2 | - | - | - | - | 100 |

* Result of IV Semester

Average Result of last three years of PG course in Mathematics is **83.56%**

Average Result of last three years of PG course in Physics is **72.52%**

**5.2.2. Provide the percentage of students progressing to higher education or employment (for last four batches). Highlight the observed trend.**

**Percentage of students progressing to higher education**

| Student progression | 2010-11 | | 2011-12 | | 2012-13 | | 2013-14 | |
|---------------------|---------|---|---------|---|---------|---|---------|---|
| | Number | % | Number | % | Number | % | Number | % |
| UG to B.Ed. | BSc-42 | 41.2 | BSc-47 | 23.5 | BSc-65 | 32 | BSc-68 | 49.27 |
| UG to PG | 86 | 47.5 | 86 | 36.5 | 143 | 52.3 | 82 | 38.13 |
| PG to M. Phil. | -- | -- | -- | -- | NA | -- | NA | -- |
| PG to Ph.D. | -- | -- | -- | -- | NA | -- | NA | -- |
| Employed | | | | | | | | |
| Campus selection | 27 | -- | 43 | -- | 23 | -- | 55 | -- |
| Other than campus recruitment | -- | -- | -- | -- | 25 | -- | 21 | -- |

Four years average percentage of our graduates pursuing higher education is **43.6%**

Our students are serving as Research Assistants and doing research for the award of Ph.D. in the institutes of higher learning like IISc. Bengaluru, RMRC Belagavi and in Universities.

**5.2.3 What is the Programme–wise completion rate / dropout rate within the time span as stipulated by the College / University?**

Dropout rate is nil.

**Subject- wise completion rate in the first attempt in percentage.**

| UG | | | | | |
|---|---|---|---|---|---|
| **Subject** | **May 2010** | **May 2011** | **May 2012** | **May 2013** | **May 2014** |
| **Chemistry** | 94.8 | 91.74 | 99.46 | 93.05 | 91.66 |
| **Physics** | 100 | 85.00 | 99.36 | 97.38 | 97.50 |
| **Mathematics** | 92.45 | 84.00 | 91.77 | 92.15 | 90.08 |
| **Statistics** | --- | --- | 100 | 100 | 100 |
| **Botany** | 100 | 87.5 | 100 | 96.07 | 100 |
| **Zoology** | 100 | 100 | 100 | 98.40 | 100 |
| **Biotechnology** | 100 | 100 | 100 | 96.50 | 100 |
| **Electronics** | 100 | 100 | 100 | 95.45 | 100 |
| **BCA** | 90 | 90 | 90 | 93.00 | 84.81 |
| PG | | | | | |
| **Mathematics** | -- | -- | 100 | 86.6 | 80.56 |
| **Physics** | -- | -- | 55 | 84% | 78.57 |
| **MCA** | -- | -- | -- | -- | 100 |

Students who have failed in the first attempt have completed the course in the stipulated time span.

**5.2.4 What is the number and percentage of students who appeared / qualified in examinations like UGC-CSIR-NET, UGC-NET,SLET, GATE /CAT / GRE/ TOFEL /GMAT/Central /State services, Defense, Civil services, etc.**

**GATE –**One student has cleared GATE

**Defense service** – Three students have cleared SSB interview.

**NET / SLET** coaching started from the academic year 2013-14.

**Number of students cleared SLET/ NET = 06**

**5.2.5. Provide details regarding the number of Ph.D. / D.Sc. / D.Litt. theses submitted, accepted, resubmitted and rejected in the last four years.**

Total **17** students are pursuing research for the award of Ph.D and 04 students have submitted theses for the award.

| Name of the guide | Subject | No. of students enrolled | Status | |
|---|---|---|---|---|
| | | | **Ongoing** | **Submitted** |
| **Dr. (Smt) S N Banasode** | **Mathematics** | **08** | **08** | **---** |
| **Dr.M. S. Choudhary** | **Mathematics** | **07** | **04** | **03** |
| **Dr. C. S. Manjarekar** | **Mathematics** | **03** | **02** | **01** |
| **Dr R G Kulkarni** | **Physics** | **03** | **03** | **-** |

## 5.3   Student Participation and Activities

### 5.3.1 List of range of Sports and games, cultural and extracurricular activities available to students. Provide details of participation and program calendar.

Institution conducts a wide range of sports, games, cultural and extracurricular activities regularly.

**SPORTS**

- Outdoor  tournaments for students:
  - Cricket
  - Basket ball
  - Foot ball
  - Volley ball
  -  Net ball
  - Hockey
- Indoor tournaments  for individual championships:
  - Badminton (Singles and Doubles)
  - Table tennis (Singles and Doubles)
  - Chess
- Annual Athletic meet :
  - Track events- Short run, long run, relay race and hurdles
  - Jumping events- Long jump and High jump
  - Throwing events – Shotput, Javelin and Discus

**CULTURAL ACTIVITIES**

Institute conducts cultural events throughout the academic year.

- Literary events
  - Essay competition
  - Debate
  - Quiz
- Music
  - Classical
  - Semi classical
  - Group and solo songs
- Theatre
  - Skit
  - Mime
  - One act play
- Fine Arts
  - Spot painting
  - Collage
  - Poster  making
  - Clay modeling
  - Cartooning
  - Rangoli

- Other activities:
  - Ladies association conducts various events for ladies viz., Dry grain competition, Bouquet making, Best out of waste, rangoli, mehandi, etc.
  - Science exhibition
  - Exhibition of models and charts
  - Founders' day celebration
  - Raja Lakhamagouda Jayanthi celebration
  - National festivals
  - National Youth day celebration
  - Celebration of Jayanthi of role models like Gandhiji, Shastriji Ambedkar, Swami Vivekananda, Sardar Vallabhabai Patel etc.
  - Ozone day celebration- essay and power point presentation competitions
  - Wild life week- poster presentation
  - Social awareness programmes
  - Cultural activities on NSS day

## Calendar of Sports Activities 2013-14

| Period | Programmes |
|---|---|
| July | Talent hunt in Orientation programme for freshers Inauguration of Gymkhana and Student Activities. |
| August & September | Selection for games. Coaching and practicing |
| October | Selection of Athletes |
| December & January | Annual Athletic meet, Inter college sports / University level |
| January & February | Conduct of competitions like badminton, table tennis and chess, |
| March | Prize distribution |

Student participation in Sports during the academic year 2013-14 in selection trials/ Inter College / University level competitions.

| Sl. No. | Event | No. of students participation | | Participation in inter college | | Inter University | |
|---|---|---|---|---|---|---|---|
| | | Men | Women | Men | Women | Men | Women |
| 1 | Basket ball | 25 | 20 | 12 | 12 | 07 | 03 |
| 2 | Hockey | 30 | 20 | 16 | 12 | 02 | 05 |
| 3 | Netball | 28 | 20 | 12 | 12 | 01 | 02 |
| 4 | Badminton | 20 | 08 | 05 | 05 | - | 02 |
| 5 | Table tennis | 25 | 15 | 05 | 05 | - | - |
| 6 | Football | 30 | -- | 16 | -- | 02 | - |
| 7 | Volleyball | 35 | 22 | 12 | 12 | - | - |
| 8 | Cricket | 54 | -- | 02 | - | - | - |
| 9 | Chess | 18 | 16 | 05 | 05 | 02 | - |
| 10 | Weight Lifting | 03 | -- | 01 | -- | 01 | -- |
| 11 | Athletics- Running | 62 | 36 | 12 | 06 | - | - |
| 12 | Athletics -Jumping | 32 | 22 | 04 | 02 | - | - |
| 13 | Athletics-Throwing | 32 | 22 | 08 | 03 | - | - |
| | TOTAL | 394 | 201 | 110 | 74 | 15 | 12 |

Calendar of Cultural Activities of the academic year 2013-14

| Period | Programmes |
|---|---|
| July | Talent hunt in Orientation programme for freshers Inauguration of Gymkhana and Student Activities. |
| August & September | Selection for cultural and literary events |
| October/ December | Youth festival – Rani Channamma University, Belagavi |
| January/ February | Ladies association activities |
| March | Cultural activities during Farewell function for final year students |

Student participation in cultural events in intra and inter college events and prizes won at inter college competitions.

| Event | 2010-11 | | 2011-12 | | 2012-13 | | 2013-14 | |
|---|---|---|---|---|---|---|---|---|
| | P | PW | P | PW | P | PW | P | PW |
| Singing solo and group Devotional/ Patriotic/ Folk | 30 | 05 | 28 | 05 | 21 | -- | 34 | 09 |
| Dance solo and group Classical/ Folk / Western | 12 | -- | 15 | -- | 16 | 03 | 08 | 02 |
| Instrumental | 10 | -- | 06 | -- | 04 | 1 | 05 | 03 |
| Drama | 16 | -- | 06 | -- | 24 | 02 | 10 | -- |
| Skit | 06 | -- | 07 | -- | 14 | 01 | 24 | -- |
| One act play | -- | -- | 05 | -- | 05 | -- | 20 | 01 |
| Rangoli | 28 | 01 | 35 | -- | 12 | -- | 25 | -- |
| Spot painting | 27 | 03 | 06 | 2 | 18 | -- | 22 | 01 |
| Clay modeling | -- | -- | | -- | 04 | 01 | 06 | -- |
| Essay writing | 16 | -- | 15 | 01 | 32 | | 15 | 01 |
| Debate | 12 | 1 | 08 | 02 | 16 | 4 | 08 | 02 |
| Quiz | 28 | 09 | 22 | 02 | 08 | 03 | 10 | 04 |
| Extempore speech | 18 | 01 | 08 | 01 | 06 | 01 | 12 | 01 |
| Elocution | 18 | 02 | 12 | 01 | 13 | 04 | 07 | 04 |
| Mimicry | 05 | 01 | 06 | -- | 05 | -- | -- | -- |
| Mime | 06 | -- | -- | -- | 06 | 02 | 15 | -- |
| Collage | 06 | -- | -- | -- | -- | -- | 08 | -- |
| Cartooning | 03 | -- | 06 | -- | 05 | -- | 05 | -- |
| Poster making | 06 | -- | 10 | -- | 06 | 01 | 08 | -- |
| Fine arts | -- | -- | -- | -- | 02 | 01 | -- | -- |
| Photography | -- | -- | 05 | -- | 06 | 01 | 04 | -- |
| Science Exhibition | 12 | 01 | 14 | 01 | 10 | -- | 15 | - |

Note: P-Participants, PW-Prize Winners

### 5.3.2 Provide details of the previous four years regarding the achievements of students in co-curricular, extra-curricular activities and cultural activities at different levels: University /State/ Zonal/ National/ International, etc.

**Co curricular:**

- Miss Varsha Patil and Vijaylakhsmi Naik submitted the research project funded by **VGST, Bengaluru,** on "Preliminary Phytochemical Investigations on Roots of Nerium oleander. Linn." in the academic year 2011-12

- Miss Juhi Singh obtained Kishor Vaigyanik Protsahan Yojana **(KVPY)** scholarship getting ₹5000/-. per month and she attended the workshop conducted by **Indian Institute of Science Bengaluru** from 8th to 10th November 2014

**Publications by students**

- **Miss Varsha Patil and Vijaylakhsmi Naik** of B.Sc. VI Semester published research paper on "Preliminary Phytochemical Investigations on roots of *Nerium* oleander. Linn" in **International Journal of Pharmacognosy and Phytochemical Research 2012;4(3); 134-138**

- **Mr. Manjunath Nandenavar** of B.Sc- VI Semester published his self composed poems in the form of book **"Ninneyanthilla Nannuru**" released on 24th March -2014

- Publication of articles in newspapers: **Mr. Shambuling Hiremath** published nine **articles** in Kannada newspapers

**Presentation of papers in National / State level Conferences / Seminars**

**2014-15**

- **Miss Durga Mahale** of B.Sc-VI semester presented paper in Inter college students' seminar at C. P. Arts & D. D. S. Commerce College Mahalingpur and got **First Prize** with cash prize of ₹**3000/-**

- **Miss Durga Mahale** of B.Sc -VI semester presented paper and shared the **First Prize** with cash prize of ₹**1500/-** in National Seminar held at R. L. Science Institute, Belagavi

- **Mr. Kartik K.B**. of B.sc VI semester presented paper and shared the **First Prize** with cash prize of ₹**1000/-** in National Seminar held at R. L. Science Institute, Belagavi

- **Miss Aishwarya Hattihole** of B.Sc- III semester presented paper in Inter college students, seminar at C P arts & D D Commerce College Mahalingpur and got **Second Prize** with cash prize of ₹**2000/-**

- **Miss Priya R Kalabavi** of B.Sc-VI semester presented a paper on 'Biodegradable Plastics" in Nationl Seminar held at G I B College, Nipani and got **second prize** with cash prize of ₹**2000/-**

- **Five students**: Miss Swati Pujar, Mr. Mahantesh Kamate, Mr. Kartik Kulkarni, Miss. Laxmi Shettigar and Mr. Vivek. B. Chandake

presented papers in the National Seminars held at G I B College, Nipani

- **Twelve students:** Mr. Mahantesh Kamate, Miss Sazia Bidi, Miss Aishwarya S H, Mr Rahul Talwar, Miss Juhi Singh, Miss Prajakta Muchandi, Miss Prema K. Miss Shivani Kuandal, Miss Shweta Bannur, Miss Pratibhakumari, Miss Shantipriya, Miss Tanya Tyagi and Miss Priyanka Kharade presented papers / posters in National Seminar held at R. L. Science Institute, Belagavi

**2013-14**
- **Miss Juhi Singh** Bsc-II semester presented paper on Personality Development at National Conference held at G.H. College Haveri
- **Miss Priya R Kalabavi** of Bsc-II semester presented paper on Communication Skills at National Conference at held at G.H. College, Haveri
- **Miss Aishwarya S H** B.Sc- II semester presented paper and got $1^{st}$ place in state level seminar on 'Indian Social Problems- Challenges and Solutions' at Lingaraj College, Belagavi
- **Miss Juhi Singh** of Bsc-II semester presented paper and got $3^{rd}$ Place in State level seminar on 'Indian Social Problems- Challenges and Solutions' at Lingaraj College, Belagavi

**2012-13**
- **Miss Shreya Havanoor** presented paper on 'The world of Nanoscience" in National Seminar held at B.K. College, Chikodi and won $1^{st}$ Prizes of ₹**3000/-**
- **Miss Priyanka Dalwai** presented paper on 'Renewable energy sources' in National Seminar held at at B.K. College ,Chikodi and won $3^{rd}$ Prize of ₹**1000/-**

**2010-11**
- **Mr. M A Mujeeb** got $1^{st}$ **prize** in paper presentation in Science Day celebration in Basaveshwar Science College, Bagalkot
- **Miss Priyanka Kakati and Miss Nivedita Goni** presented papers in state level seminar on 'Ensuring equal Rights and Opportunities to Women' at G I B College, Nipani
- **Mr.Rohan Astekar and Miss Renu Balannavar** of IV semester presented papers on 'Promotion and Protection of Human Rights' at P C Jabin College, Hubli
- **Miss Sampada Shanbag** presented paper on 'Physical Chemistry' and got $1^{st}$ **Prize** in Chem Forum at Kittle College, Dharwad
- **Miss Shubha Gunaga** presented paper on 'Organic Chemistry' in Chem Forum at Kittle College, Dharwad. She got $2^{nd}$ **Prize** in Inter College Kannada Science Lecture Competiton conducted by Gandhi Grameen Gurukula Hosaritti, Haveri

- **Mr Sripad Joshi and Mr. M. A. Mujeeb** presented papers on Environmental Issues in 'Seminar on Environmental Hazards in 21$^{st}$ Century' at G. H. College, Haveri
- **Priyanka Kakti and Miss Nivedita Goni** presented a paper in a seminar on 'Ensuring Equal Rights and Opportunities to Women' conducted by G I Bagewadi College, Nipani

**Poster presentation and Power Point Presentation Competitions – Intra -Institutional:**
- On the eve of **"Wild Life Week"** celebration in the month of October, poster presentation competitions were conducted for the students
- On the eve of **Ozone day** celebration essay and power point presentation competitions were conducted
- Poster presentation competition on science themes and biotechnological aspects were conducted every year.

## Extra Curricular Activities

### 2014-15 –State Level:
- Miss Durga Mahale of B.Sc-VI Sem got second prize with a cash prize of ₹8000/- in Elocution Competition organized by Satish Sugar Awards held on 16$^{th}$ Nov. 2014

### 2013-14 -National Level:
- Vaibhav Sainaikar participated in **National Level Tabala Competition** at All India Inter University Youth Festival held at Kurukshetra, Hariyan from 18$^{th}$ to 25$^{th}$ February 2014

**State Level:**
- Vaibav Sainaikar participated in Zonal Inter University Youth Festival 'Yuva Sambram' held at Bengaluru University, Bengaluru on 19$^{th}$ to 23$^{rd}$ December 2013

**University Inter Zonal**
- Mr. Vaibhav Sainaikar B.Sc V semester got **1$^{st}$ prize** in Tabala in Inter Zonal RCU Youth Festival held at Jamkhandi

**University PG Youth festival held at G.I.B. College, Nipani held on 22$^{nd}$ to 23$^{rd}$ Oct. 2013**
- Mr. Vinut Vadagavi of M.Sc-I semester got **1$^{st}$ prize** in Spot Painting
- Miss Girija Madenhalli of M.Sc-III Semester got **1$^{st}$ prize** in Elocution in Kannada and **2$^{nd}$ prize** in Debate
- Miss Sushma Patil of M.Sc-III Sem. got **2$^{nd}$ prize** in Elocution in English

**University Zonal Level Youth Festival held at G S S College, Belagavi on 5$^{th}$ Oct. 2013**
- Mr. Vaibhav Sainaikar of B.Sc V Semester got **1$^{st}$ prize** in Tabala
- Miss Chaitra Sanganavar and group got **1$^{st}$ place** in folk dance
- Mr. Manjunath Nandennavar & group got **1$^{st}$ place** in One Act Play
- Miss Poonam Patil & group got **3$^{rd}$ place** in Group Song

**Inter College Level:**
- Miss Laxmi Agasimani & group got **1st place** in-group dance competition at Seva Samiti Social work College, Belagavi
- Miss Poonam & group got **1st place** in patriotic song competition held at Shaik College of Education, Belagavi
- Miss Prajakta Gokale got **2nd place** in patriotic song Competition at Kannada Sahitya Parishath, Belagavi
- Miss Bhagyashri Pattar got **2nd place** in Patriotic Song competition Kannada Sahitya Parishath, Belagavi

**2012-13- National Level**
- Miss Radha Sanganaikar got **consolation prize in Bharatnatyam** in South Zone inter university Youth Festival held at Gulburga University, Gulburga on 17th Jan 2013

**State Level**
- Mr. Shambuling Hiremath got **3rd prize** in Debate at GKVK campus Bengaluru on the eve Sahakar Saptah on 21st Jan 2013

**State Zonal Level**
- Mr. Ajit K and Mr. Shantling Hanji got **consolation prize** in inter college science exhibition at Karnatak Science College, Dharwad on 5th Jan 2013

**University Inter Zonal Youth Festival held at RCU campus Belagavi held on 5th Nov. 2012.**
- Miss Radha Sanganaikar got **1st prize** Bharatnatyam
- Mr. Vinay Patil got **2nd prize** in Poster Making
- Mr. Rohit Punekar, M.Sc- I year got **1st prize** in Clay Modelling RCU Youth Festival at P G Center, Bijapur on 13th Oct. 2012.
- Mr. Rajendra got **1st prize** in Quiz RCU Youth Festival at P G Center, Bijapur on 13th Oct. 2012
- Mr. Mahesh got **2nd prize** in Mimicry in RCU Youth Festival at P G Center, Bijapur on 13th Oct. 2012
- Mr. Shambuling Hiremath got **1st prize** in Debate in Sahakara Saptaha

**Univerity-Zonal Level held at B.K. College, Belagavi**
- Miss Radha Sanganaikar got **1st prize** Bharatnatyam
- Mr. Shambuling Hiremath got **1st prize** in Debate and 3rd prize in One Act Play
- Mr Vaibav Sainaikar got **1st prize** in Tabala
- Mr Raju B.T. got **1st prize** in Mimicry
- Mr Vinay Patil got **1st prize** in Poster Making
- Miss Vani K. got **1st prize** in Debate

**Inter college Level:**
- Miss Suyesha Patil won **2nd prize** in Pick & Speak at Sahyadri Pratistan, Belagavi

- Mr. Shantinath Latte and Mr. Chetan M. won **2<sup>nd</sup> prize** in Quiz during Science day Celebration at Science Centre, Belagavi
- Mr. Krishan Dhulai and Mr. Praveen Sultanpure won **2<sup>nd</sup> prize** in Quiz in Physics Forum held at J.T. College Gadag
- Miss Priyanka Dalwai won **2<sup>nd</sup> prize** of ₹750/- in Chem- Forum at G.H. College, Haveri
- Miss Amruta S. Goudar won **1<sup>st</sup> prize** in Elocution held at B.V.B. Engg. & Tech. College, Hubballi

**Inter College level- at Zilla Kala Pratibotsav, Belagavi**
- Mr. Rajshekar and team won **1<sup>st</sup> prize** in Drama Competition
- Miss Amruta S. Goudar won **1<sup>st</sup> prize** in Elocution
- Mr. Vinay Patil won **1<sup>st</sup> prize** in Fine Arts

**KLE Inter college Youth festival 'Srujana' held at RLSI Belagavi.**
- Mr. Vinut Vadagavi won **1<sup>st</sup> prize** in Photography
- Mr. Shambuling Hiremath and Team won **1<sup>st</sup> prize** in Drama
- Mr Navin Malagi won **1<sup>st</sup> prize** in Mime
- Mr Srikant Ganachari and Team won **2<sup>nd</sup> prize** in Skit
- Mr. Vinay Tonni and Mr. Veerangouda Patil won **2<sup>nd</sup> prize** in Quiz.

**<u>2011-12</u>- State Level:**
- Miss Vinaya Jahagirdhar B.Sc.II won **1<sup>st</sup> prize** in Quiz conducted by Doordarshan, Bengaluru and telecasted on 20<sup>th</sup> July 2011
- Miss Vibha Kusugal and Miss Deepshri Kamat got **consolation prize** in State level Science Exhibition held at K.C.P. Science College, Bijapur
- Miss Sampada Shanbag of B.Sc-III got **2<sup>nd</sup> prize** in Bio-Quiz conducted by Vision Group of Science and Technology, Bengaluru

**Inter college Level:**
- Mr. Shambhuling Hiremath got **1<sup>st</sup> prize** in Debate at Basaveshwar Arts College, Bagalkot
- Mr. Shambhuling Hiremath got **1<sup>st</sup> prize** in Debate with cash of ₹1500/- at SDVS Sangh, College, Sankeshwar and shared with Mr. Chetan K
- Miss Vinaya Jahagirdhar B.Sc.II won **1<sup>st</sup> prize** in Singing at Shri Mahacharya Vidyapeeth, Hubli
- Miss Vinaya Jahagirdhar B.Sc.II won **1<sup>st</sup> prize** in Singing at Lions Ladies Club Tilakawadi
- Miss Suyesha Patil got **2<sup>nd</sup> prize** in Elocution conducted by Rotary Club, Belagavi
- Miss Shruti Kadagaonkar B.Sc-III got **1<sup>st</sup> prize** in Sugam Sangeet conducted by Kannada and Cultural Department, Belagavi
- Miss Shruti Narayanpur B.Sc-I got **2<sup>nd</sup> prize** in Extemphore speech competition conducted by Kannada Sahitya Bhuvan

- Miss Shruti Gavimath B.Sc.-I got **2<sup>nd</sup> prize** in Singing competition conducted by Kannada and Culture Department, Belagavi
- Mr. Vinay Patil B.Sc-II got **2<sup>nd</sup> prize** in Drawing and Painting competition conducted by Kannada Culture Department, Belagavi
- Mr. Vinut Vadagavi B.Sc-II got **3<sup>rd</sup> prize** in Drawing and Painting competition conducted by Kannada and Culture Department, Belagavi
- Mr. Manjunath Manvi B.Sc-II got **3<sup>rd</sup> prize** in Essay Competition conducted by Department of Economics and Statistical Information, Belagavi
- Mr. Shuklambar Pattar B.Sc-III got **Runners Up trophy** in '**Voice of Belagavi**' Competition held in Belagavi

**2010-11 -National Level**

- Mr. Prasad Sarwate got **Rs 13,000/-** cash prize in Quiz, "Sports Quiz", conducted by Synergy, anchored by **Quiz Master Siddarth Basu**
- Mr. Sripad Joshi, Mr. Prasad Sarwate and Mr. Sushil Kataria secured 6<sup>th</sup> place in Quiz conducted by **IIT, Mumbai**

**State Level**

- Miss Vibha Kusgal and Deepshri Kamat of IV semester got **2<sup>nd</sup> prize** in Science Exhibition held at J S S College ,Gokak

**University Level-Inter Zonal Level**

- Miss Neha Gurjar got **1<sup>st</sup> prize** in Spot painting in Inter Zonal Youth Festival of Karnatak University, Dharwad
- Mr. V. A. Patil of B.Sc-II Semester got **2<sup>nd</sup> prize** in Spot- Painting in Inter Zonal Youth Festival of RCU, Belagavi
- Mr Prasad Sarwate and Mr, Sripad Joshi got **2<sup>nd</sup> and 3<sup>rd</sup> prize** respectively in Quiz in Inter Zonal Youth Festival of Karnatak University, Dharwad

**University-Zonal Youth Festival of Karnatak University,Dharwad held at G.S.S. College, Belagavi:**

- Miss Neha Gurjar got **1<sup>st</sup> prize** in Spot painting
- Mr. Prasad Sarwate got **1<sup>st</sup> prize** in Quiz
- Mr Sripad Joshi got **2<sup>nd</sup> prize** in Quiz
- Miss Sampada Shanbag got **2<sup>nd</sup> prize** in Debate
- Miss Shuba Gunaga got **3<sup>rd</sup> prize** in Elocution

**University Zonal Youth Festival held at R.P.D. College, Belagavi.**

- Mr S C Hiremath of II Sem got **2<sup>nd</sup> prize** in debate
- Mr V A Patil of II sem got **2<sup>nd</sup> prize** in Spot Painting

**Inter College Level**:

- Miss Shuba Gunaga got **1<sup>st</sup> prize** in Quiz on Science Day celebration at Basevashwar Science College, Bagalkot and got **1<sup>st</sup> Prize** in Elocution held at Swami Vivekananda Institute of Commerce, Belagavi

- Miss Sampada Shanbag got **1<sup>st</sup> prize** in poster presntation on Science Day Celebration at Basaveshwar Science College, Bagalkot
- Mr Shuklambar Pattar got **2<sup>nd</sup> place** in singing held at Swami Vivekananda Institute of Commerce, Belagavi
- Miss Shruti Kadagoakar of B.Sc. IV Semester Secured **1<sup>st</sup> place** in Patriotic solo singing completion held at Sheik College of Education, Belagavi, **1<sup>st</sup> place** in singing conducted by Kannada and Sankruti Elake Belagavi, **1<sup>st</sup> place** Singing competition held at Nehru Yuva Kendra Belagavi, **2<sup>nd</sup> place** in singing competition at Kannada Sahitya Bhavan Belagavi, got **2<sup>nd</sup> prize** in Bhavgeete competition at S R Kanthi College, Mudhol and **3<sup>rd</sup> place** in singing held at Swami Vivekananda Institute of Commerce, Belagavi
- Miss Shradha Kulkarni B.Sc-V Semester got **3<sup>rd</sup> prize** in Janapad geethe competition at S R Kanthi College, Mudhol
- Mr. Sagar Karki and Mr Prasad Sarwate got **1<sup>st</sup> prize** in Quiz held at Annapurna Institute Management Research Sankeshwar
- Mr. Sripad Joshi got **1<sup>st</sup> prize** in Extempore Speech competition held at B.B.A. College, Sankeshwar
- Mr. Sripad Joshi, Mr. Prasad Sarvota got **1<sup>st</sup> prize** in Quiz competition held at Gandhi Grameen Gurukula Hosaritti, Haveri and also in the competition conducted by Deshpande Foundation and Belagavi Institute of Management, Belagavi
- Mr M A Mujeeb and Mr Sripad Joshi got **2<sup>nd</sup> and 3<sup>rd</sup> prize** in Debate conducted by Chem- Forum at Kittle college, Dharwad

## SPORTS

**Forty Two University Blues** belonging to our college represented Rani Channamma University, Belagavi in All India / South Zone Inter University competitions

| Year | University Blues |
|------|------------------|
| 2014-15 | 13 |
| 2013-14 | 09 |
| 2012-13 | 12 |
| 2011-12 | 06 |
| 2010-11 | 02 |
| TOTAL | 42 |

### SPORTS- 2014-15

**Thirteen** students of our Institute selected as **University Blues** and represnted Ranichannamma University, Belagavi south Zone and All India Inter University Tournaments

- Miss Sneha Kaktikar in Shuttle Badminton at Bharthiar University, Coimbatore, Tamilnadu
- Miss Geeta Ramshetty in Shuttle Badminton at Bharthiar University, Coimbatore, Tamilnadu

- Miss Neha Khatore in Chess at VIT University, Vellore Tamilnadu
- Miss Divya D Inamdar in Handball at Periyar University, Salem, Tamilnadu
- Mr. Rohit kumar in Football at Calicut University, Kerala
- Mr. Shaif-ul-Alum in Hockey at Anna University, Chennai
- Mr. Dilnawaz Badami in Netball at Annamalai University, Tamilnadu
- Mr. Moez Mulla in Netball at Annamalai University, Tamilnadu
- Mr. Dilnawaz Badami in Basket ball at Satyabhama University, Chennai
- Mr. Kartik Kulkarni in Chess at VIT University, Vellore Tamilnadu
- Mr. Adib Yaksambi in Cycling at G N D University, Amritsar, Punjab
- Mr. Akshay Tarale in Athletics in all India Inter University Athletics meet held at Rajiv Gandhi Health University at Moodbidari
- Mr Kunal Aptekar in Basket ball at Satyabhama University, Chennai

**SPORTS- 2013-14**

**National Level:**

- Mr. Adib Yaksambi won **Bronze medal** in All India Sabarmati **Cyclothon** competition held at Ahmedabad
- **Nine** students of our Institute were selected as University **Blues** and represented RCU, Belagavi at National and South Zone Inter University Tournaments
    - Miss Amila Mascarenhas in Net Ball in All India Inter University at P.T.R University, Raihur, Chhatisgarh
    - Mr. Kunal Aptekar in Net Ball in All India Inter University at Pt. R. S University, Raihur, Chhatisgarh
    - Mr. Vinayak A Nayak in Hockey at Sri Krishnadevaraya University, Anantpur, Andhra Pradesh
    - Mr Karthik Kulkarni in Chess in South Zone Inter University at S.R.M. University, Kattankulthur
    - Miss Amila Mascarenhas in Basket Ball in South Zone Inter University at Dr. N.T.R University, Vijaywada (A.P.)
    - Mr. Dil Nawaz Badami in Basket Ball at J.N.T University, Kakinadu, Andra Pradesh
    - Mr. Umiya Sayyed in Basket Ball at J.N.T University, Kakinadu Andra Pradesh
    - Miss Tanzil Gokakkar in Hockey at Mangalore University, Mangalore, Karnataka
    - Miss Bhakti Kamat, in Hockey at Mangalore University, Mangalore, Karnataka

**University level – Inter College:**

- Men Basket Ball Team secured Runners-up trophy in RCU Inter collegiate Basket Ball Tournament

- Women Hockey team secured Winners trophy in RCU Inter collegiate Hockey Tournament

**District Level**
- Women Hockey team secured Runners-up trophy in District Level Tournament

**SPORTS - 2012-13**

**Twelve students** selected as **University Blues** and represented RCU, Belagavi at National level- All India Inter University Tournaments

- Miss Amila Mascarenhas in Basketball at Dr. N T R Health Univerity Vijaywada, Andrapradesh
- Miss Amila Mascarenhas in Netball at Kurukshetra Univeristy Haryana
- Miss Bhakti Kamat, in Hockey at M.G. Kottyam University ,Kerala
- Miss Divya Inamdar in Hockey at M.G. Kottyam University, Kerala
- Miss Tanzil Gokakkar in Hockey at M.G. Kottyam University, Kerala
- Mr. DilNawaz Badami in Basket Ball at Dr. N T R Health University Vijaywada, Andhrapradesh
- Mr. DilNawaz Badami in Net Ball at Kurukshetra Univeristy Haryana
- Mr. Kamal Singh in Foot Ball at Annamalai University, Tamil Nadu
- Mr. Pranav Kulkarni in Foot Ball at Annamalai University, Tamil Nadu
- Mr. Kirankumar Patil in Basket Ball at Dr. N T R Health University Vijaywada, Andhrapradesh
- Mr. Shahanaz Bepari in Hockey at Bharatidasn Vishwavidyalaya, Trichnapalli, Tamil Nadu
- Mr. Pavan Mane in Weight Lifting at Udyapur University, Rajasthan

**University (RCU, Belagavi) Level – Intercollegiate Tournament**
- Miss Amila Mascrenas won **Bronze medal** in High Jump
- Miss Akkamma Secured IV place in 400 mtrs. Hurdle
- Miss Harpreet Bhatia secures IV place in 5000 mtrs. Walking Event

**Achievements of our students in KLE Inter college Sports Meet.**
- Miss Amila Mascrenhas was adjudged as **Champion** in Women section
- Mr. Praveen Kumar Walikar was adjudged as **Champion** in Men section
- Miss Amila Mascrenas secured **1st Place** in 100mtr Run and **2nd place** in High Jump
- Miss Bhagyashree secured **1st place** in Long Jump
- Miss Akkamma secured **1st place** in 400 Mtrs. Hurdles
- Miss Neha secured **3rd place** in 800 Mtrs running
- Our College Women Relay Team secured **2nd place** in Relay Race

- Our Basket Ball Women Team secured Runners-up trophy in Basket Ball
- Mr. Praveen  Walikar secured **2nd place** in Long Jump and **2nd place** in 400 Mtrs. Running
- Mr. Santosh M Hukkeri secured **3rd place** in Triple Jump
- Men Relay Team secured **2nd place** in Relay Race
- Men Basket Ball team secured **Runners-up Trophy** in Basket Ball

**SPORTS -2011-12**

**Six students** selected as University Blues represented Rani Channamma University, Belagavi at National Level - All India Inter University  Tournaments

- Miss Amila Mascarenhas in Basket Ball at Konnur University, Tamil nadu
- Miss Priya Patil in Shuttle Badminton at VIT Vellore, Tamilnadu
- Miss Lakshmi Khilare in Shuttle Badminton at VIT Vellore, Tamilnadu
- Mr. Kirankumar G Patil in Basket Ball at Satybhama University, Chennai, Tamilnadu
- Mr. Jeetendra R. Gurjar in Chess at VIT Vellore, Tamilnadu
- Mr. Bepari S.R. in Hockey at Anna University, Tirumelvelli, Tamil nadu

**University Level:**
- Miss Akshata Jakkannavar got **Silver medal** in 400 mtrs. Hurdles
- Miss Akshata Nayak got **Silver medal** in Hammer Throw
- Mr. Sachin Ibrahimpur got **Bronze medal** in 400 mtrs. Hurdles

**SPORTS- 2010-2011**

Two students were selected as University Blues. Represented Karnatak Univesity, Dharwad at National level- All India Inter University Tournaments

- Miss Akshata Jakkannavar in Basket Ball at Maharshi Dayanand Saraswati University, Ajmir, Rajasthan
- Mr. Kirankumar G Patil in Basket Ball at Annamalai University, Annamalai, Tamilnadu

**University Level:**
- Mr. Vinayak Toragal got 4th place in 110 mtrs. Hurdles
- Miss Asma Ganachari reached in finals in 100 mtrs. and 200 mtrs. Run
- Women Relay team played in  the Finals

**NCC** -   Achievements of NCC cadets during the assessment period **2010-11 to 2013-14**

- **Eight**  Cadets attended **Republic Day Parade in NewDelhi**.
- **Two** cadets attended **Republic Day parade in Bengaluru.**
- **Nine** Cadets attended **Vayusainik Camp**

- **Nine** Cadets attended **National integration camp**
- **Three** Cadets attended **Thalsainik Camp**
- **One** Cadet won **three gold and one silver medal and'All India best Aero- Modellar trophy'at R.D.Parade in NewDelhi**
- **One** Cadet won **Best Air wing cadet award**
- **One** Cadet won **All India Best Cadet Award**
- **Our** Cadets **Won gold** and **Bronze medals** in Drill competition
- **One** Cadet **won Bronze** medal in Static Aero-modelling

| Event | No of Cadets Attended |
|---|---|
| Republic Day Parade in New Delhi | 08 |
| Rpublic Day parade in Bengaluru | 02 |
| Vayusainik Camp | 09 |
| National integration camp | 09 |
| Thalsainik Camp | 03 |

**NCC-2014-15**
**Republic Day Parade**

- **Cdt. Omkar Metri attended Republic Day Parade in New Delhi**

**NCC -2013-14**
**Republic Day Parade**

- **Three** cadets: Cdt. Pratibha Bandigani, Cdt. Manikya Patil and Cdt. Ashlesha Bhalare, attended **Republic Day Parade in New Delhi**
  Cdt. Ashlesha Bhalare –**Won Best Air wing Cadet Award** of Karnataka and Goa Directorate
- Cdt. Akshata Kuri, Cdt Snehal Metri and Cdt. Pratiksha Ghasari attended RD selection Camps up to **Inter Group Level** at Mysuru from 11-11-2013 to 20-11-2013

**National Integration Camp**

- Cdt. Chetan Jadav attended National Integration Camp and **Won All India Best Cadet Award**
- Three Cdts. Mahantesh Sahasraguddi, Prathibhakumari and Manjula Talwar attended National Integration Camp at Kodagu, Karnataka
- Cdt. Rajalakshmi Bhoite participated in **NCC National Games 2013 held at New Delhi for German Rifle Shooting Championship**

**Thal Sainik Camp**

- Two cadets -Cdt. Prathibhakumari and Cdt.Mahantesh Sahasraguddi attended Group Level **Thal Sainik Camp**

### NCC - 2012-13
**Republic Day Parade**
- Cdt. Taniya Rodrigues- Attended **Republic Day Parade in New Delhi** and **Won Bronze Medal** in static Aero-Modelling

**Vayusainik Camp**
- Three cadets -Cdt. Sameeksha Hiremath, Cdt. Chetan Jadav and Cdt. Snehal Kamble attended Vayusainik Camp at Bengaluru
- Cdt. Sameeksha Hiremath won **Bronze medal** in Drill Competition in Vayusainik Camp

**National Integration Camp**
- Cdt. Manjunath Nandennavar and Cdt. Santosh Murgod attended National Integration Camp at Tenali, Andhra Pradesh
- Thirteen Cadets attended Annual Training Camp at Commando Wing at Belagavi
- Eighteen Cadets attended Annual Training Camp at APMC Police Ground, Belagavi

### NCC -2011-12
**Republic Day Parade**
- Cdt. Jainabi Mulla – Attended **Republic Day Parade in New Delhi.** Cadet **Won Three Gold** Medals in Aero- Modelling and Control Line Flying. Also **won All India Best Aero-Modellar Trophy**
- Two cadets -Cdt. Yogeshar Kannapagol and Cdt. Mukund Ningannavar – attended **State Republic Day Camp at Bengaluru**

**Vayusainik Camp**
- Four cadets- Cdt. Aishwarya Bhatt, Cdt. Elaine Abnes, Cdt Vishal Singh and Cdt. Valentine Chavan attended All India Vayusainik Camp at Bengaluru
  Cdt. Aishwarya Bhatt **Won Gold Medal** in Drill Competition in Vayusainik Camp at Bengaluru

**Thal Sainik Camp**
- Cdt, Mukund Ningannavar and Cdt. Yogeshar Kannapagol attended Thal sainik camp up to Inter Group Competition Level at Baglakot

**National Integration Camp**
- Cdt Vikram Singari, Cdt. Bharat Goni and Cdt. Ashok Patil attended National Integration Camp held at Ahmedabad, Gujarat

**All India Trekking Expedition**
  Cdt.Mukund Ningannavar and Cdt. Satishkumar Ganachari attended All India Expedition at Belagavi

### NCC -2010-11
**Republic Day Parade**
- **Two** cadets : Cdt. Ajit Kerakannavar and Cdt. Raveena Chougule attended **Republic Day Parade in New Delhi**
- Cdt. Rehana Sheikh and Cdt. Rajshri Hattihole attended Pre RD camp at Hubli

**Vayusainik Camp**

- Cdt. Abhishek Madiwalkar attended All India Vayusainik Camp in Bengaluru
- Cdt. Akshay Kulkarni attended All India Vayusainik Camp in Bengaluru
- Cdt. Jainabi Mulla attended All India Vayusainik Camp in Bengaluru
- Cdt. Shivani Nadagouda attended All India Vayusainik Camp in Bengaluru
- Cdt. Ashrita R Talwar attended All India Vayusainik Camp in Bengaluru

**Thal Sainik Camp**

- Cdt. Rehana Sheikh and Cdt. Rajshri Hattihole attended Thal sainik Camp at Belagavi

**NSS:**

NSS Volunteers take active part in weekly services, Blood donation camps, extension activities, rallies of social awareness programmes and in **Special Camp** at adopted village.

**NSS- 2013-14**

- **State Level**: Mr Praveenkumar V. Walikar attended the **State Republic Day Parade** at Bengaluru
- **University Level:** Two Volunteers- Mr. M. R. Kamate and Mr. Lingaraj Patil participated NSS camp at KRCES Degree College, Bailhongal

**NSS - 2012-13**

- **State Level:** Mr. Sagar S Mokashi participated **State Pre- RD Camp** from 28-08-2012 to 01-09-2012
- **University Level :** 10 NSS Volunteers attended University level Camp from 02-02-2013 to 08-02-2013
- Miss Sagar Karki and Miss Attalatti attended the District level Family Planning Training Programme on 12-01-2013

**NSS -2011-12**

- **State Level:** Mr. S.S. Ibrahimpur participated in the State level Personality Development and Leadership Training at Tumkur from 22-09-2011 to 28-09-2011

**NSS - 2010-11**

- **State level:** Mr. A. I. Hunshyal and Miss V.S. Naik participated in **Pre-RD training Camp on 03-09-2010**
- **University Level:** Mr. M. B. Nesargi and Miss V.S. Naik Attended Univesity level NSS Camp held at J.S.S. College, Dharwad

**5.3.3 How often does the College collect feedback from students for improving the support services? How is the feedback used?**

Feedback is collected twice in a year from students regarding infrastructure facilities, academics etc.

Feedback is analyzed and corrective measures are implemented by providing necessary facilities.

**5.3.4 Does the College have mechanism to seek and use data and feedback from its graduates and employers, to improve the growth and development of the college?**

Feedback committee collects feedback from the outgoing students, alumni and employers to overcome the deficiencies.

Suggestions given in the feedback are discussed in the staff meeting. Such of the suggestions that are beyond the reach of the staff, are discussed in the Governing Body meeting. The measures suggested by the Governing Body members will be implemented.

**5.3.5 How does the College involve and encourage students to publish materials like catalogues, wall magazines, College magazines and other material? List the major publications / materials brought out by the students during the previous academic session.**

Students are encouraged and involved in the publications as follows:

- Student representatives are nominated to the editorial board of college miscellany
- Students are motivated to contribute articles, poems, biographies or their original creative-works
- Students display thought provoking posters in the campus on the special day like International Women day, Human Rights day, World Ozone day, World Heart day, Wild life week, etc.
- Paper clippings of important events are displayed on notice board
- Students are encouraged for Power point presentation on selected science topics to be published in the college miscellany
- Staff members encourage and extend monetary help to students to publish their poems and stories in the form of books. **Mr. Manjunath Nandennavar** of B.Sc- VI Semester. Published his Self Composed Poems in the form of Book **"Ninneyanthilla Nannuru"** released on 24th March -2014
- Publication of literary articles in newspapers: **Mr. Shambhuling Hiremath** has published **nine** articles in Kannada news papers

### 5.3.6 Does College have a Student Council or any similar body? Give details on its constitution, major activities and funding.

Yes, Institute has student council comprising Principal as President, senior faculty members as Vice-Presidents, faculty members as chairmen and student representatives as Secretaries and Joint secretaries for all Associations and Committees.

Activities:

- In consultation with Principal, Vice-President of Gymkhana and Vice-President of Student Activities, students organize Inaugural and Valedictory functions
- Student representatives help the faculty in organizing sports events and cultural activities
- Disseminate information regarding dates of competitions, Student welfare Schemes, and Celebration of the functions like freshers' day, farewell day, Independence day, Republic day, Teachers day, Women's day, Youth day, Inaugural function, Valedictory function, etc.
- They organize association functions such as guest lectures and fests.
- They organize competitions on various themes like global issues
- Students take active part in organizing seminars / Conferences/ workshops
- They organize study tours, industrial visits and visit to research centers
- Student's representatives in the library and gymkhana committees, suggest for the purchase of books, newspapers, magazines, journals and sports materials respectively
- Organise and participate in extension activities and rallies of social awareness like blood donation, AIDS awareness, ban of plastics, non- violence day, etc.

Funding:

- Institute provides funds for all these student-activities

### 5.3.7 Give details of various academic and administrative bodies that have student representatives on them. Provide details of their activities.

Student's representatives serve in almost all academic and administrative bodies of the institute. Student representatives are in

- IQAC
  - Disseminating informations from IQAC to all the students about events like Conferences/ Seminars/ workshops.
  - Imparting the suggestions for the feedback taken on Curriculum, Support services and Examination system

- Gymkhana committee:
  - Assist the Physical Director in conducting various games at college, zonal & inter zonal levels and organizing annual athletic meet.
  - Organize prize distribution function
- Association committees:
  - Organize guest lectures
  - Organize various events like quiz, seminars, study tour, visit to industries/research centers etc.
- Women empowerment cell
  - Organize various functions on health and hygiene, save girl child etc.
  - To create awareness about the legal rights of women
- SC/ ST Cell
  - Disseminate information about the scholarships
  - Suggestion for the conduct of remedial classes
- Class representatives:
  - Organize various functions of the institute
  - Organise rallies to create social awareness
  - Assist in arranging and organizing national festivals like Independence Day, Republic day, etc.
    Arranging guest lectures, seminars, study tours, wild life week,

poster/power point presentations and visit to industries/research centers.

## CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 Institutional vision and leadership

### 6.1.1 State the vision and mission of the College.
The **vision** and **mission** of the institute are:
**Vision** – To impart education for global excellence.
**Mission** –
- Character building through quality science education
- To bring about progressive quality reforms in pursuit of excellence.
- To address the academic needs of the student community through a wide variety of courses
- To make students intellectually competent to face the competitive world of employment
- To contribute to the popularization of science education and education in values
- To contribute to the self development of the students and through it to the community and National development

### 6.1.2 Does the mission statement define the College's distinctive characteristics in terms of addressing the needs of society, the students it seeks to serve, College's traditions and value orientations, vision for the future, etc?

Yes, the first three Mission statements define the college's distinctive characteristics in terms of addressing the needs of society by starting need based courses like Biotechnology, Electronics, Computer Science, PG courses in Mathematics, Physics and MCA and also the Certificate courses.

Mission four and five define the aspirations of the college in serving the students by conducting career oriented and skill development programmes to face the competitive world and to serve the Nation.

Mission five and six are focused on adopting traditions and value orientations by conducting value based and spiritual programmes by celebrating Independence Day, Republic day, Teacher's day, Birth Anniversary of our donor Raja Lakhamagouda, K.L.E. society's Founders day, Gandhi Jayanti, International Women's day, Science day and also by a visit to Ramkrishna Ashram for spiritual learning.

**Vision for the future**

- To increase the community oriented extension activities
- To establish more MoUs and linkages with Universities, industries and educational institutions
- To promote research activities
- To strengthen the employment potential and to facilitate the acquisition of employable skills
- To introduce new need based certificate courses
- To bring new reforms in the examination system

### 6.1.3 How is the leadership involved in

∗ **ensuring the organization's management system, development, implementation and continuous improvement**

- The organization's management system includes Board of Management, Finance committee, Functional IQAC, Local Governing Body, Autonomous Governing Body, Academic Council, Chief Controller, Controller of Examinations, BoS.
- Principal shoulders overall responsibility for smooth and effective functioning of the college
- Heads of the department serve as a link between the Principal and the staff
- Various committees provide ample scope for participatory management

**Continuous improvement**

- Quality enrichment measures are initiated by the IQAC
- Annual academic and administrative development plans are discussed and implemented
- Financial allotment is made for the purchase of equipments, books, etc.
- Faculty enrichment programmes are organized for the development of human resources
- Faculty members are deputed for the seminars /conferences/ workshops and orientation/refresher courses
- Periodic review of curricula and introducing new certificate courses

∗ **interaction with stakeholders**

The Institute makes specific efforts to build and maintain a healthy relationship with all stakeholders.

- **The student community**
  - The college conducts orientation programme at the beginning of the academic year. The objectives of the programme are to familiarize the students with the college and its various systems and to make them feel as a part of the institution. An effort is also made to find out various talents of the students
  - Student's feedback, on curriculum, teaching and support services is obtained at every semester
  - Students may meet the Principal, HoDs and faculty whenever required
  - Separate meetings are conducted for the students of SC/ST/OBC/Minority categories
  - Students interact with the mentors and Placement officer
  - Various committees constituted by the Institution include the student representatives
- **Parents**
  - Parents interact with the Principal, HoDs, faculty members, mentors and administrative staff of the Institution whenever required
  - Parents can meet and interact with the Management also
- **Teaching and non-teaching**
  - Management and the Principal interact with the teaching and non-teaching staff by conducting meetings regularly

∗ **reinforcing culture of excellence**

The governance's efforts to develop and sustain a culture of excellence are in practice as follows:

- Planning and timely execution of quality through IQAC
- Practice of participative management at all levels

- The research cell motivates faculty and the students to participate and present papers in State / National /International seminars /conferences / workshops and also publish research papers in journals
- To promote team culture, students and members of non-teaching staff are included in various committees along with faculty. This type of culture creates a sense of belongingness
- Redesigning of curriculum
- Special achievers like University Rank holders, winners of the University sports and cultural events are honored by giving cash awards and prizes
- Emphasis on the development of soft skills
- Started need based and innovative programmes such as PG courses in Mathematics, Physics, Computer Applications and Certificate courses
- Strengthening the culture of excellence through SWOC analysis
- e-governance is in practice
- Adoption of ICT based teaching- learning and evaluation
- **Identifying needs and championing organizational development (OD)**
  The efforts are made to identify needs and development:
- HoDs of various departments take into account the prevailing workload and accordingly the requirements in teaching, non-teaching staff and also the infrastructural needs are informed to the head of the Institution
- Periodic meetings with the HoDs, staff and students help in identifying the needs of the teaching - learning and evaluation system
- To update the recent developments in academic and administrative fields, faculty enrichment programmes are organized
- Number of books are increased due to redesigning of the curriculum
- Organizational development of our college is due to the progress in curricular, co-curricular and extra-curricular activities of the students and the achievements by the faculty

**6.1.4 Were any of senior leadership positions of the College vacant for more than a year? If so, indicate the reason**
No.

**6.1.5 Does the College ensure that all positions in its various statutory bodies are filled and conduct of the meeting at the stipulated intervals?**

Yes, college conducts meetings at stipulated intervals of various statutory bodies.

- IQAC
- Local Governing Body
- Autonomous Governing Body
- Academic Council
- Board of Studies
- Finance Committee

**6.1.6 Does the College promote a culture of participative management? If yes, indicate the levels of participative management.**

Yes, the college promotes a culture of participative management at all levels

- At the decision making level, the college adopts the participative management by nominating representatives from industry and academia in the IQAC, Governing Body, Finance Committee, Academic Council and Board of Studies
- The participation of the stakeholders like students and teachers is ensured through different means by nominating them to the various statutory bodies
- The students and teachers are the representatives of various committees such as Library, Sport, Cultural, Women Empowerment cell, SC/ST cell etc. Decisions are taken in consultation with HoDs and staff members
- Members of the alumni and parents are involved in overall development of the college
- We collaborate with industries for projects
- IT and Corporate sector visit our college for recruitments

**6.1.7 Give details of the academic and administrative leadership provided by the University to the College?**

University has provided the leadership to our college in academic and administrative matters

- University approved the Autonomous status granted by the UGC
- University monitors the functioning of autonomy by nominating the members to Governing Body, Academic Council and Board of Studies
- University nominates the Principal/senior faculty as the members of the Local Inquiry Committee (LIC)

- College Development Council (CDC) of the University acts as a link between the UGC/other funding agencies and the CDC extends support to all the developmental endeavors of the college
- University has recognized our college for the central valuation work of University
- University conducts K-SET examinations in our college
- Research Guideship recognition to our faculty
- University provided an opportunity to our faculty to work as an administrative officer in the University
- University appoints senior supervisors, Squad members and Chairmen for various examinations

## 6.1.8 How does the college groom the leadership at various levels?

Head of the Institution plays an important role in governance and management of the Institution as an official executive head.

- Faculty members are motivated to attend orientation and refresher courses which helps them to acquire the latest information and knowledge to develop their leadership qualities
- IQAC organizes Staff Development Programmes to promote the leadership qualities of the teaching and non-teaching.
- Co-curricular and extra-curricular activities organized by various committees and associations foster the leadership to both the faculty and the students
- Participation in NSS, NCC, YRC, RRC and departmental activities helps the students to acquire leadership qualities
- Adequate power is given to the HoDs to shoulder their departmental responsibilities
- The Principal assigns various tasks to both teaching and non-teaching faculty to share responsibilities for the smooth and effective functioning of the college activities
- Personality Development and skill orientation programmmes are conducted for the students to inculcate leadership qualities

## 6.1.9 Has the College evolved any strategy for knowledge management? If yes, give details.

Yes, our strategy for knowledge management:

- Enriching the knowledge of the staff and the students, various departments conduct in-house seminars/PowerPoint presentations/ Science Exhibition
- Redesigning the syllabus after every three years
- Organizing seminars/workshops/conferences every year
- Deputation of staff and students to participate and present papers in seminars/ workshops/ conferences
- Inviting eminent guest speakers

- Promotion of MRPs/ FIPs
- Development programme for support staff
- Using ICT based teaching and learning
- Encouraging publications
- Addition of e-learning resources

## 6.1.10 How are the following values reflected in various functions of the College?

The following values are reflected in the Vision and Mission, of our college:

### ∗ Contributing to national development

- As an integral part of our curriculum students study Indian Constitution, Human Rights and Environmental Studies ,Technical Communication and Ethics and Proffessional Communication and Ethics to imbibe human values like patriotism, discipline and care for community amongst the students
- Our college hoists **National flag every day**
- Extension activities through NSS/NCC give the students an exposure to promote values like National integration, team-spirit and respect for each other
- Celebration of National festivals
- Redesigning the syllabus as per the industrial requirements
- Courses are continuously planned and existing courses are updated to meet societal needs and current trends in research
- Defence officials, alumni are invited as the guest speakers to infuse the spirit of Nationalism

### ∗ Fostering global competencies among students

- The curriculum is updated keeping pace with the global needs
- Soft skills training, personality development, orientation programmes enhance the competency of the students
- Certificate courses and Project works promote the creativity and analytical skills of the students
- Group discussion/ quiz/ debate to foster collaborative learning by students
- Seminars, paper presentation and science exhibitions are encouraged

### ∗ Inculcating a value system among students

Imparting moral/ ethical education helps students inculcate the timeless values of life such as love, empathy, truth and integrity by the following:

- Celebration of K.L.E. Society's Founder's day
- NCC/NSS activities to inculcate discipline and community orientation
- Teaching in orphanage by our students

- Visit to Ramakrishna Ashram for spiritual experience
- Guest lectures by eminent scholars and spiritual leaders
- Yoga, meditation classes for staff and students
- Celebration of Mahatma Gandhi and Lal Bahadur Shastriji Jayanti by reading verses from the holy books of various religions to promote tolerance and equality

∗ **Promoting the use of technology**
- Computer training for teaching, non-teaching staff and students
- Certificate courses like Web-designing, Data management
- Use of softwares
- ICT based teaching using
  - e -journal
  - e-books
  - CDs
  - Power point presentations
  - Science practicals
- Updating the office software with MIS and library with OPAC, Del-net, etc
- Providing facilities like internet, Wi-Fi, LCD and smart boards in the classrooms
- Dissemination of information through websites
- Conduct of PowerPoint presentation competition on global issues
- Augmentation of advance equipments

∗ **Quest for excellence**
        IQAC continuously involves in planning and implementing development initiatives towards excellence
- Implementation of Autonomous status
- Flexibility for Horizontal and vertical mobility of programmes
- Outstanding achievements of students and staff are duly recognized and appreciated.
- Ranks and University Blues every year indicate sustained excellence
- Faculty and students are motivated to take up research work and to publish their papers
- To adopt innovative learner centric methods
- Stakeholders are also contributing towards various achievements
- SWOC analysis leads the Institution towards excellence
- Constant efforts are made to promote excellence at all levels
- Participation of students in State/National level competitions in sports and cultural activities

**6.1.11 Give details of the UGC autonomous review committee's recommendations and its compliance.**

- UGC autonomous system is functioning from 2012-2013. Review committee visits after 5 years of Autonomous functioning

**6.2 Strategy Development and Deployment**

**6.2.1 Does the College have a Perspective Plan for development? If so, give the aspects considered in development of policy and strategy.**

Yes, IQAC prepares academic calendar of the college

* **Teaching and Learning**

- Advance designing and development of the curriculum keeping in view the career of the students and demands of the society
- To prepare teaching plan and teaching schedule in the beginning of the academic year
- Certificate courses are designed to make the students globally competent
- To promote the value based quality education to enhance global competency
- Supplementing classroom learning with guest lectures, student projects, industrial visits and study tours

* **Research and development**:

- Research committee monitors research activities by motivating the faculty and students. The activities like, taking up the research projects, publication, participation and presentation of papers in seminars/ conferences/ workshops organized at State/ National/ International level are encouraged
- Encouragement to the faculty to establish MoUs, procure research guideship, organize quiz competition, science exhibition and promote interdisciplinary collaborative research programmes
- College provides seed money to carry out research activities and felicitates the faculty and students for their research activities

* **Community engagement**

- All the departments are involved in community oriented extension activities
- Adopting a village for community development
- Conducting social and extension activities through NCC/NSS
- Conducting awareness programs like Gender sensitization, AIDS awareness programmes, Swachh Bharat and Ekta Abhiyan
- To undertake socio-economic surveys like senior citizen survey, survey of Dombari community
- Teaching in orphanage by our students
- To organize the health check up and blood donation camps

- To provide consultancy service to the society like Lift irrigation scheme, Soil testing, Water analysis, Food adulteration, Mushroom cultivation, Authentification of plants, Blood group detection, B.P. and Sugar level testing, Software testing and training in CBSC syllabus for High school teachers

∗ **Human resource planning and development**
- Motivating the staff members to undergo orientation, refresher and development programmes
- Conducting Faculty Recharging Programmes
- To enhance Computer literacy by conducting the training programme
- Analyses of self appraisal reports
- Providing the welfare programmes to staff and students

∗ **Industry Interaction**
- Visit to industries
- Linkages/MoUs with industries for projects
- Designing the curriculum as per the needs of the industry
- To nominate industrialists to the statutory bodies
- Inviting industrialists for guest lectures

∗ **Internationalization**
    To promote the faculty/student to participate and present papers in International seminars/conferences/workshops
- Interaction with international experts
- Publication of research articles in international journals
- To celebrate international days like
    - World Earth Day
    - World Ozone Day
    - World Environment Day
    - International Women's Day
    - International year of Statistics, Physics, Chemistry
    - World Heart Day

## 6.2.2 Enunciate the internal organizational structure of the College for decision making processes and their effectiveness.

Organizational Structure

The institution has a participative management towards decision making and implementation

- Autonomous Governing Body is the decision making authority for academic activities
- The recommendations of the various statutory bodies are
- implemented through the Principal. In turn the Principal decentralizes the implementation through the HoDs, faculty, administrative staff, Controller of Examinations and other stakeholders

# Organizational Structure

| | AUTONOMOUS GOVERNING BODY | | | |
|---|---|---|---|---|
| | LOCAL GOVERNING BODY | | | |
| | ACADEMIC COUNCIL | | | |
| | IQAC | | | |
| | BOS | | | |
| | PRINCIPAL | | | |

| ADMINISTRATIVE | CURRICULAR | | EXTRA CURRICULAR | | OTHERS |
|---|---|---|---|---|---|
| **MANAGER** | **DEPARTMENT** | **COMMITTEES** | **SPORTS** | **ASSOCIATION** | UGC Committee |
| Office Staff | Physics & Electronics | Admission | Vice President | Vice President | Finance Committee |
| Technical Staff | Chemistry | Finance | Physical Director | Chairman Student Secretary | Grievance Redressal Cell |
| Support Staff | Mathematics | Timetable | Chairman | Physical Society | Women Empowerment Cell |
| | Statistics | Examination | Student Secretary | Chemical Society | SC/ST Cell |
| | Botany | Feedback | **INDOOR GAMES** / **OUTDOOR GAMES** | Mathematical Society | Placement & Counseling Cell |
| | Zoology | Library | Badminton / Track & Field Events | Botanical Society | Anti-Ragging Committee |
| | Biotechnology | College Miscellany | Table Tennis / Cricket | Zoological Society | NSS Advisory Committee |
| | Computer Science | | Chess / Hockey | Biotechnological Society | Eco Club |
| | BCA | | Carrom / Foot Ball | Kannada Sangh | Youth Red Cross Wing |
| | MCA | | Volley Ball | English Association | Press and Publicity Committee |
| | Kannada | | Khokho | Hindi Association | |
| | English | | Kabbadi | Ladies Association | |
| | Hindi | | Net Ball | | |

### 6.2.3 Specify how many planned proposals were initiated/implemented, during the last four years. Give details.

The perspective plans of the college are:

| Year | Planned proposal | Initiated/Implemented |
|------|------------------|----------------------|
| **2010-11** | Autonomous | Started from the academic year 2012-2013 |
| | Upgradation of computer laboratory | Four Computers and one laptop are added |
| | To conduct National seminars | Two National Seminars in Physics were conducted on 26th and 27th Nov.2010 and on 13th and 14th March 2012<br>National seminar in Chemistry was conduted on 8th and 9th Sept 2011 |
| | To start PG course in Mathematics, Physics | Started in the year 2010-2011 |
| | Office automation | Implemented from 2012-13 |
| | Library automation | Implemented from 2012-13 |
| | Examination reforms | Implemented from 2012-13 |
| **2011-12** | Designing the curriculum of UG and PG I/II Semester | Designed and implemented from the academic year 2012-13 |
| | To start MCA | MCA course started from 2012-13 |
| | Rejuvenation of infrastructure in old colleges | Renovated in the year 2012-13 |
| | Construction of swimming pool | Completed in the year 2015 |
| **2012-13** | Upgradation of computer lab | Five Computers and four laptops are added |
| | Sports equipments and books | Sports equipments of ₹1,10,543/- and books of ₹91,538/-, are added |
| | NET/SLET coaching for PG students | Initiated from the academic year 2013-14 |
| | Certificate courses | Initiated from the academic year 2013-14 |
| | Designing the curriculum of UG and PG III/IV Semester | Designed and implemented from the academic year 2013-14 |
| | Addition of floor to ladies hostel building | Completed in the year 2013-14 |
| | Standard size composite Football/ Cricket playfield | Completed in the year 2012-13 |

| | | |
|---|---|---|
| **2013-14** | Upgradation of computer lab | Four Computers and two UPS are added |
| | National conference in Mathematics and Botany | National conference in Mathematics was conducted on 13th and 14th 2015 Two day National Seminar on "Climate Change and its impact on Biodiversity" was conducted on 30th and 31st Jan.2015 |
| | Students safety Insurance policy | Initiated from 2014-15 |
| | Construction of classrooms in the second floor of library building | Under progress |
| | Designing of the curriculum of UG V/VI Semester | Designed and implemented from the academic year from 2014-15 |

## 6.2.4 Does the College have a formally stated quality policy? How is it designed, driven, deployed and reviewed?

Yes, the quality policy has been formulated based on the Vision and Mission of the college. The Management, Principal and IQAC ensure the implementation of the policy to provide quality education and this policy is reviewed according to the needs.

**Quality policy**

- Imparting quality science education for global excellence
- To bring progressive quality reforms, communication skills and employability
- To give education to address the academic and social needs
- To contribute to popularization of science and value education
- Providing the leadership quality, discipline and ethical values
- Cater to the needs of under privileged and to promote the women education
- To bring in innovations and best practices
- To promote the quality education, financial assistance/fee concession/PSLL facility is provided to the poor and meritorious students
- To provide the facilities like **"RLSI Nidhi"** and **"Earn while you learn"**
- All the faculty is encouraged to take up research activities like MRPs from different funding agencies
- Conducting academic, administrative and financial audit every year

**6.2.5 How does the College ensure that grievances/complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder-relationship?**

Yes, the college has a Grievance Redressal Cell. The functions of the cell are:

- To receive the grievances from the employees in the matter of his/her personal interest
- To scrutinize the grievances and send these for clarification to the concerned person depending on its nature
- To issue instructions to the concerned person to solve them at his/her own level
- To refer unsolved grievances to the Principal who is ex-officio chairman of the cell
- To bring to the notice of Local Governing Body, the grievances that are unsolved even at the Principal's level
- Grievances pertaining to service conditions, salary, placements etc, are referred to higher officials

The college has not received the grievances of serious nature since its inception. The grievances received are redressed by the Principal by giving oral instructions.

**6.2.6 Does the College have a mechanism for analyzing student feedback on institutional performance? If yes, what was the institutional response?**

Yes,

- Feedback from students on institutional performance related to curriculum, infrastructural facilities and students support services is obtained by the feedback committee of our college
- Authorities of the Institution carefully analyze the feedback and if necessary, suitable improvement measures are taken to enhance its performance to the satisfaction of students and stakeholders

**6.2.7 In what way the affiliating university helped the college to identify the developmental needs of the College?**

The affiliating university extends a helping hand in the following ways:

- University Representatives serving on statutory bodies such as Governing Body, Academic Council and BoS offer suggestions pertaining to revision of curricula ,introduction of new programmes and contribute their ideas towards the overall development of the colleg
- Suggestions regarding the improvement of the institution are offered by Local Inquiry Committee (LIC)

- The University acts as a coordinating link between UGC /NAAC/ HRD/Funding agencies
- University provides an opportunity for our students to participate in curricular, co-curricular and extracurricular activities
- University gives approval for introduction of new combinations and increase in the intake capacity for different courses

**6.2.8 Does the affiliating university have a functional College Development Council (CDC) or Board of College and University Development (BCUD)? If yes, in what way College is benefitted.**

Yes, the College Development Council of the University plays a vital role in strengthening the academic growth of our college in various ways:
- UGC proposals and Grants utilization certificates are sent through College Development Council (CDC)
- CDC recommends to UGC for the introduction of new courses and programmes in the college
- Recommending the teachers to UGC for Faculty Development Programmes
- CDC comprises the committee of building and Planning Board

**6.2.9 How does the College get feedback from non-teaching, teaching, parents and alumni on its functioning and how it is utilized?**

**Teaching and non-teaching**
- Teaching and non-teaching staff may express their views and opinions in departmental meetings and also in the meetings with the Principal

**Parent and Alumni**
- Feedback is collected from parents during parent-teacher meetings
- Feedback from the alumni is obtained during alumni meet
- Parent and alumni representatives of IQAC give their opinions during IQAC meeting and also during their visit to the college
  The constructive suggestions are incorporated

**6.2.10 Does the College encourage autonomy to its academic departments and how does it ensure accountability?**

Yes, the college encourages autonomy to all its departments
- Academic freedom to the departments to design their curriculum
- Introduction of new courses
- Adoption of new strategies in teaching-learning process
- Conducting seminars/ conferences/ workshops, association meetings and guest lectures
- Purchase of equipments, library books, etc
- Inter departmental research and inter disciplinary activities

- Establishing linkages/MoUs

    The Principal and Management monitor regularly to ensure accountability of the departments in terms of transparency and quality.

## 6.2.11 Does the College conduct performance auditing of its various departments?

Yes,

- Performance auditing of various departments of the college is meticulously conducted at different levels by Heads of the departments, Principal, Local Governing Body and IQAC
- Academic audit of various departments is carried out by HoDs and the Principal. Internal Assessment and results of Semester End Examinations are taken into account while determining the performance of the students
- Curriculum design, teaching plan/teaching schedule, teaching methods, teaching–learning infrastructural resources etc. are audited and monitored
- Self-appraisal of each faculty and SWOC analysis of every department are thoroughly discussed. If any lapses or shortcomings are noticed then corrective measures are taken up
- Evaluative reports of all the departments are submitted to IQAC for information and necessary action

## 6.3 Faculty Empowerment Strategies.

## 6.3.1. What efforts are made by the College to enhance the professional development of teaching and non-teaching staff?

- Teaching staff are encouraged to organize and attend faculty development programmes like conferences/ seminars/ workshops, guest lectures, orientation and refresher courses
- Faculty members are motivated to take up research activities such as MRP, M.Phil., Ph.D., paper presentation and publications
- To motivate the faculty to work as resource persons
- Arranging HRD and computer literacy programmes for teaching and non-teaching staff
- Library staff and faculty are trained for OPAC, e-journals, e-books and Delnet packages
- Financial assistance and other facilities are extended to faculty who attend and present papers in State/ National/International level seminars/workshops/conferences/science exhibition and also who act as resource persons

### 6.3.2 What is the outcome of the review of the Performance Appraisal Reports? List the major decisions.

The appraisal reports are used to offer constructive suggestions towards the professional development of the staff

- One Major Research Project and **Fifteen** Minor Research Projects are completed whereas Seven MRPs are ongoing
- **Fifty** papers are presented, **Fifty Seven** research papers and **Four** books are published
- **Five** faculty members are recognized by the University as Research Guides
- Faculty is motivated to take part in social and extension activities
- To undergo faculty development programmes

**Major decisions**

- Faculty members are encouraged to take up Major/ Minor Research Projects
- Faculty members are advised to register for M.Phil./Ph.D. and publish research papers and books
- Faculty participated in 323 National and International Seminars/Conferences/Workshops
- Organised **Eleven** National Seminars/Conferences/IT Fests and **Twenty two** Workshops

### 6.3.3 What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

**Welfare schemes:**

- "Vaidyshree" Health insurance scheme for all the employees.
- 25% fee concession for professional courses to the wards of the employees
- Provision of T.A/D.A for attending seminars/conferences/workshops.
- Loan facilities from staff cooperative society
- Accommodation facility for the employees on the campus
- Uniform is provided to support staff
  In the last four years, 80% of staff have availed the above benefits

### 6.3.4 What are the measures taken by the College for attracting and retaining eminent faculty?

**Faculty retention measures employed by the college are:**

- Being a part of a giant organization
- Healthy institutional culture and ambience
- Attractive salary
- Extending facilities for research work
- Scope for career development
- Recognition to outstanding achievers

- Ample opportunities for professional growth and development through faculty improvement programmes
- Welfare schemes and benefits
- Periodic pay revision

### 6.3.5 Has the College conducted a gender audit during the last four years? If yes, mention a few salient findings.

Yes, the college conducts a gender audit every year. The Women Empowerment Cell informally interacts with women of the college to make them feel safe and secure

- Percentage of women employees is about 40%

**Gender % ratio of Teachers**

| Year | Male: Female |
|------|--------------|
| 2010-11 | 73:27 |
| 2011-12 | 57:43 |
| 2012-13 | 58:42 |
| 2013-14 | 54:46 |
| 2014-15 | 51:49 |

### 6.3.6 Does the College conduct any gender sensitization programs for its staff?

Yes,
- Guest lectures on yoga and meditation
- Functional Women Empowerment Cell
- Observation of International Women's day
- Awareness programmes on Human rights, Legal Literacy and Health & Hygiene

Such programmes highlight the challenges faced by women and such programmes stress on the need for promotion of gender equality by making men and women mutually sensitive to each other's problems and needs.

### 6.3.7 What is the impact of the University's UGC-Academic Staff College Programmes in enhancing competencies of the College faculty?

- The University's UGC – Academic staff college conducts Orientation / Refresher courses regularly
- The orientation course helps the teachers to improve their teaching skills and planning their methodology
- The refresher course enhances and updates the subject knowledge by which the students are benefitted
- Short term training programmes for the faculty have enhanced the technical skills
- Administrative training increases the administrative proficiency of the Principal

### 6.4  Financial Management and Resource Mobilization

### 6.4.1  What is the institutional mechanism to monitor effective and efficient use of financial resources?

To monitor financial resources efficiently, the mechanism developed by the institution is as follows:

- The annual budget is prepared by the Finance Committee and it is approved by the Local Governing Body of the college and the Management.
- Proposals are forwarded to the Principal by HoDs for their requirements.
- To place the order, minimum three quotations are required
- The quotation with lowest price and good quality must be approved
- Accordingly the orders are placed
- Payments are made by cheque after receiving the goods
- If the price exceeds ₹10,000/- an approval is taken from the Management
- All bills are verified by the accounts section
- Internal and external audit are done periodically

### 6.4.2  Does the College have a mechanism for internal and external audit? Give details.

Yes

- **Internal Audit:** Conducted quarterly by the K.L.E.Society's internal Auditors
- **External audit**
    - **Statutory Annual Audit:** Conducted by a chartered accountant appointed by our Society's head office
    - **Government Audit:** Conducted by the Auditors of Joint Directorate of Collegiate Education, Dharwad
    - **AG Audit:** The Auditors deputed by accountant general also conduct Audit

### 6.4.3  Provide audited income and expenditure statements of academic and administrative activities of the previous four years.

**Income and Expenditure**

| Year | Income in ₹ | Expenditure in ₹ |
|---|---|---|
| **2013-14** | 5,55,70,636 | 5,43,46,904 |
| **2012-13** | 6,05,68,059 | 6,02,35,855 |
| **2011-12** | 4,68,31,677 | 4,78,53,297 |
| **2010-11** | 3,79,40,238 | 3,74,71,526 |

### 6.4.4 Have the accounts been audited regularly? What are the major audit objections and how are they complied with?

Yes, the accounts have been audited regularly.

No major audit objections were found.

### 6.4.5 Narrate the efforts taken by the College for resource mobilization.

- Salary grants of aided employees are received from the State Government
- Fees are collected from students of B.Sc and self financed stream like M.Sc. , BCA and MCA
- Funds are mobilized by collecting fees from the Certificate courses
- UGC grants for Autonomous system, Major/Minor Research Projects, general developments etc.
- Management contributes towards the salary of management appointees and for major constructive work
- **"RLSI Nidhi"** from staff
- Rent from staff quarters and hostel fees
- Cash prizes from alumni and faculty

### 6.4.6 Is there any provision for the College to maintain the 'corpus fund'? If yes, give details.

No,

## 6.5 Internal Quality Assurance System

### 6.5.1 Does the College conduct an academic audit of its departments? If yes, give details.

Yes, IQAC conducts academic audit.

- The process of conducting an academic audit of the departments of our college begins with the available teaching work-load in each department and accordingly the faculty is appointed as required in the departments
- Teaching-learning resources and sufficient infrastructure are made available
- Syllabi are designed by BoS and further it is discussed in AC and GB meetings. Syllabi framed are relevant to the need of the hour
- The Principal and HoDs monitor periodically the quality of teaching-learning and also the completion of syllabi on time
- The mentors and Class teachers continuously monitor the academic and career progression of the students
- Work-diaries and self-appraisal reports of the teachers are analyzed by the Principal
- Result analysis of Internal tests and Semester End Examination are carried out periodically. Later on the academic performance of the

college is discussed in the IQAC and Governing Body. The suggestions, if any are incorporated to improve the results

- SWOC analysis of every department is conducted
- Finally, the Internal Quality Assurance Cell takes into account all the academic aspects of the college and makes suggestions, if any for the healthy academic growth of the college

## 6.5.2 Based on the recommendations of academic audit what specific measures have been taken by the College to improve teaching, learning and evaluation?

Academic audit helped us to realize our strengths and weaknesses in teaching-learning and evaluation. In order to overcome the weakness and strengthen the prevailing system, the introduction of Autonomous system acted as a convenient tool for reformation of the overall process. As a result the curriculum was redesigned and it led to the introduction of new subject combinations. The syllabi became more relevant to the need of the society. In addition to it, the commencement of need based certificate courses gave added advantage to the students. The academic audit led to the introduction of PG courses in Physics, Mathematics and Computer Applications. The increase in the number of guest lectures, seminars, conferences, workshops, research activities, student projects and Certificate courses are indeed the gifts of autonomy to our college. Infrastructural additions like; books in the department library, ICT tools and computers, e-resources, e-packages and print materials in the central library really enriched the teaching-learning process. The fruit of autonomy can be seen in the evaluation system that is more scientific and transparent.

## 6.5.3 Is there a central body within the College to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Yes,

IQAC acts as a central body within the college to continuously review the teaching-learning process.

IQAC composition:

Chairman – The Principal

Coordinator – A Senior faculty member

IQAC is constituted of as many as 13 teaching faculty; two administrative/ technical staff, one student representative, one management representative, one parent-representative, one alumnus and one external expert.

**Methodologies of its operations**

IQAC plays an important role in continuously reviewing the teaching-learning process as follows:

- It prepares an academic calendar based on which the academic activities are carried out
- Teaching faculty is directed to prepare their teaching plans in accordance with the academic calendar; and they are advised to adhere strictly to the same
- The feedback taken from all the stakeholders as far as the teaching-learning process is concerned is analyzed critically and if any shortcomings, then corrective measures are taken including redesigning of the syllabi
- As per the objectives reflected in the vision and mission of the college, plans are prepared for their implementation. Therefore IQAC organizes meetings regularly to review the teaching-learning process

**Outcome**
- Learning aptitude of the students has been improved through student-centric learning methods by conducting seminars, assignments and group discussions which results in the increase of pass percentage of the students
- Practical knowledge through field visits, academic tours and extension activities
- University Ranks every year show the academic benchmark of the institution
- Reforms in the examination system has made the system more transparent

## 6.5.4 How has IQAC contributed to institutionalizing quality assurance strategies and processes?

**IQAC contributions:**
- As a quality assurance strategy advance planning is done through academic calendar
- Periodic review and monitoring of  the progress of the academic activities
- Defining the quality benchmark for academic activities
- To adhere strictly to the teaching plan/ teaching schedule
- Conduct of Internal Tests/examination according to the calendar of events
- Preparation of the Proforma for evaluation of internal quality for each department
- Submission of Annual Quality Assurance Report on time to NAAC
- Outcome of departmental activities is analyzed as per the action plan
- Preparation of Self Study Report for Third Cycle of Accreditation
- Motivating the departments towards adopting new/best practices
- Analysis of  Peer team Exit Report and SWOC analysis
- Identifying and guiding  the students for research projects

- Motivating the staff to undertake the research projects
- Selecting the **'Best Boy'** and **'Best Girl'** every year
- Preparing the plans and proposals for need based courses like PG and Certificate courses
- Analysis of feedback from stakeholders
- Gate and double valuation system in Semester End Examination

### 6.5.5 Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.

Yes,

**Contributions:**
- New subject combinations and new Certificate courses are introduced as suggested by the external members
- Suggestions for imparting quality education

### 6.5.6 Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?

Yes, the college has conducted a study on the incremental academic growth of different categories of the students

### Incremental Academic Growth

**B.Sc.**                                                      **2010-11**

| Sl. No. | Category | No. of Students | B.Sc.-I Entry % | B.Sc.-III Exit % | Incremental Academic Growth |
|---------|----------|-----------------|-----------------|------------------|------------------------------|
| 1 | SC | 27 | 48.88 | 68.88 | 20 |
| 2 | ST | 05 | 42.4 | 53.6 | 11 |
| 3 | OBC | 63 | 53.73 | 71.73 | 18 |

**2011-12**

| Sl. No. | Category | No. of Students | B.Sc.-I Entry % | B.Sc.-III Exit % | Incremental Academic Growth |
|---------|----------|-----------------|-----------------|------------------|------------------------------|
| 1 | SC | 19 | 44 | 56.94 | 11.94 |
| 2 | ST | 8 | 50 | 57.66 | 7 |
| 3 | OBC | 49 | 43.83 | 70.61 | 27 |

**BCA**                                                        **2010-11**

| Sl. No. | Category | No. of Students | BCA.-I Entry % | BCA-III Exit % | Incremental Growth |
|---------|----------|-----------------|----------------|----------------|---------------------|
| 1 | SC | 03 | 45.86 | 61.295 | 15.44 |
| 2 | ST | 02 | 45.4 | 60 | 14.6 |
| 3 | OBC | 39 | 48.6 | 67.3 | 18.7 |

**2011-12**

| Sl. No. | Category | No. of Students | BCA.-I Entry % | BCA.-III Exit % | Incremental Growth |
|---|---|---|---|---|---|
| 1 | SC | 05 | 45 | 66.2 | 21.2 |
| 2 | ST | - | - | - | - |
| 3 | OBC | 29 | 51.40 | 68.75 | 17.35 |

**6.5.7 What policies are in place for the periodic review of administrative and academic departments, subject areas, research centers, etc.?**

Following are the policies for the periodic review in Administration and academic activities:

- Evaluation report of the Department is analysed every year
- Monthly reconciliation of ledgers and cash books
- Stock verification of the equipments at the end of every academic year
- Analysis of result after each semester by all the departments
- SWOC analysis of every department
- Feedback analysis from all the stakeholders on various components of the departments
- Examination reforms
- Biometric system is in practice

**Subject areas and Research center:**

- Departmental activities are periodically reviewed by HoDs
- Research cell reviews the research activities of the institution
  Provision of seed money to the students to carry out the research activities.

## CRITERION VII: INNOVATION AND BEST PRACTICES

### 7.1 Environment Consciousness

### 7.1.1 Does the College conduct a Green Audit of its Campus?

Yes, the College conducts a Green Audit of its campus. The audit is done in three phases viz.,

- **Pre-Audit:** The scope of the audit is defined. Various initiatives during the academic year are confirmed
- **Audit:** Internal Green Audit Team (IQAC) supervises the process of implementation throughout the year
- **Post-Audit:** The College reviews environment related initiatives which are implemented. It formulates the action plan for the next academic year in order to have better environmental sensitization

The Green Audit will cover aspects such as

- Air quality

- Energy efficiency,
- Water conservation,
- Waste Management,
- Daily operations and maintenance of computers
- Over all development of Environment consciousness.
- Nomenclature of Plants
- Covering 1/5 area with flora

- Environment consciousness is a management tool to maintain the pristine purity and beauty of the college campus to provide a congenial climate for the academic and non-academic pursuits
- The Institution is situated in the heart of the city with a lush-green flora
- The campus has well manicured lawns
- The campus has botanical garden/ herbal garden. Flora are named with scientific and vernacular names
- Green audit of the campus is carried out by the Institution periodically and while expanding infrastructural facilities Ecological balance is maintained by conserving trees
- Environment day is celebrated every year on 5th June. Nurturing of plants is one of the non-academic pursuits that develop eco-concern among the staff and students
- Garden maintenance committee along with Eco-Club and NSS volunteers, take care for planting, watering, weeding and maintaining the plants
- The open-air gallery in the garden serves as a green background for college functions and a lounge for students at lunch break.
- **3-R rule** is followed for Eco friendly awareness (**R**educe, **R**ecycle and **R**e-use)
- Displaying boards like "**Go green** and **Grow green**" which also helps in creating environmental concerns
- Water conservation methods are adopted in the whole campus where spring action taps are fitted to minimize wastage of water

### 7.1.2 What are the initiatives taken by the College to make the campus eco - friendly?

#### ∗ Energy Conservation

Institution has formed a committee to look after energy conservation in the campus

- Minimal consumption of energy helps in energy conservation
- Using CFL/LED bulbs reduces electricity consumption
- "**Green Earth Day**" is celebrated on 28th March every year
- Solar water heaters have reduced the use of electricity for water heating in hostels

- Copper chokes in tube lights are replaced to electronic chokes which consume less energy
- Energy saving fans are used in class rooms and hostels
- Capacitor banks are used in power houses to improve the power factor
- Timers are used in air conditioners in Computer labs to save energy.
- Sensors for switching on /off for generators
- Replacement of resistance regulator for fans with electronic regulator, CRT monitors with LCD monitors, DOT matrix printers with Laser printers saves electricity
- Experiments like Thevinin's, Norton's, and De-Morgan's theorem, Half-adder and Full-adder experiments, Verification of Boolean expressions are done on energy generated by solar panel
- Providing proper ventilation system in class rooms/labs reduces power consumption
- Use **M**ini **C**ircuit **B**oard (MCB) as a local circuit breaker

∗ **Use of renewable energy**
- Solar water heaters are installed in hostels for supplying hot water to students

| Sl. No. | Hostel | No of solar heaters | Capacity in liters | Total liters |
|---|---|---|---|---|
| 1 | Boys' | 1 | 3000 | 3000 |
| 2 | Ladies' | 3 | 3000 | 9000 |
| 3 | Brabourne | 1 | 500 | 500 |
| | | 05 | | 12,500 |

**Water harvesting**
- Roof top water harvesting is done and collected water is used in chemical Laboratories.

∗ **Check dam construction**

There is no check dam in the campus. The average rainfall in Belagavi is 1520 mm. The water table of the campus is good. College has two open wells. They serve as perennial sources of water to meet our requirements.

∗ **Efforts for carbon neutrality**
- Energy Audit and Carbon Foot Print Analysis are made annually under the supervision of Pollution Control Board Belagavi, and all effective measures are taken regularly to maintain the carbon dioxide level below 350 ppm
  (iGREEN 350 campaign).
- Every building in the campus is surrounded by trees and side manicured carpet lawns

- Ornamental and Horticulture plants decorate the campus and the campus looks beautiful and which also helps to control noise pollution (below 55 dB)
- Solar power is used for operating a few experiments
- Vehicles are not permitted inside the campus to keep the campus pollution free and it is felt that carbon neutrality is very much achieved in the campus

**Energy Conservation in the Hostels (Usage of Solar Water Heaters)**

- It is worked out that release of 11.75 ton $CO_2$ per year is prevented by the use of solar water heaters as per the calculations presented below:
- No. of Hostels: 05

| Sl. No. | Name of the Hostels | Capacity of Solar Water Heaters (in Ltr.) |
|---------|---------------------|-------------------------------------------|
| 1. | Boys Hostel | 3000 |
| 2. | New Ladies Hostel | 3000 |
| 3. | New Block Ladies Hostel | 3000 |
| 4. | Ladies Hostel (Old) | 3000 |
| 5. | Brabourne Hostel (Ladies) | 500 |
| | **Total** | **12,500** |

- By using these solar water heaters water temperature is raised from $25^0$C to $60^0$C.
- The value of specific heat Cp of water is 4.186kJ/kg $^0$C (Constant)
  1. The total amount of water heated per day =(3,000 x 4)+(500 x 1)
     $$= 12,500 \text{ liters/day}$$
  2. The amount of heat required $= M \times Cp \times (T_2-T_1)$
     $$=12,500 \times 4.186 \times (60-25)$$
     $$= 18,31,535 \text{ kJ}$$
  3. The energy obtained from solar collector = 18,31,535 / 0.8
     (Efficiency is 80%)
     $$= 22,89,218 \text{ kJ}$$
     $$=22,89,218 \text{ kWsec}^{-1}$$
     $$= 635.89 \text{ kWh}^{-1}$$
  4. Per day unit of Electrical Energy saved is = 635.89 kWh$^{-1}$
  5. 1kW/h energy production releases 0.000086 tons of $CO_2$
  6. Considering working days of the college (215) of water heater usage
     $$= 635.89 \times 215 \times 0.000086$$
     $$= 11.75 \text{ ton.}$$

11.75 ton of $CO_2$ emission per year is prevented by using solar water heaters.

- **Plantation**
- The green ambience of the college is mainly due to the green flora
- One-Fifth of the college campus is covered with Flora which helps to maintain the ecosystem
- There are 207 varieties of plant species in the campus.
- Planting of saplings by the chief guests of various functions speaks of the eco-consciousness (**Vanamahotsav**)

The following list shows the Plant wealth of the campus.

| Sl. No. | Type | No. of Plants |
|---|---|---|
| 1 | Angiosperms | 194 |
| 2 | Gymnosperms | 06 |
| 3 | Pteridophytes | 07 |
| 4 | Bryophytes | 03 |
| 5 | Hydrophytes | 05 |
| 6 | Epiphytes | 02 |
| 7 | Aromatic plants | 10 |
| 8 | Medicinal Plants | 122 |
| 9 | Insectivorous | 04 |
| 10 | Climbers | 15 |
| | **Total** | **368** |

Rare plant wealth of the campus (Regional )

| Sl. No. | Common name (Type) | Scientific name | Number of trees |
|---|---|---|---|
| 1. | Krishna's Butter cup | *Ficus krishnae* DC | 1 |
| 2. | Saptaparni (Indian Devil Tree) | *Alstonia scholaris* (L.) R.Br. | 1 |
| 3. | Cannon ball Tree | *Couroupita guianensis* Aubl. | 3 |
| 4. | Pine tree | *Pinus roxburghii* Sorg. | 1 |
| 5. | Pitcher plant | *Nepenthes distillatoria*. | 1 |

- **Hazardous Waste Management**
- Separate soak pits are provided in Chemistry laboratory, Biotechnology laboratory, Hostel and Canteens  for discharging waste water
- Radioactive sources are placed in lead castle
- Information regarding the type and number of radioactive  sources is given to parent University and Bhabha  Atomic Research Centre (BARC).Disposals if any are made as per their guidance
- "**Plastic Free Zone Campaign"** is conducted every year, this has brought down the usage of disposable plastic goods to the minimum extent
- Degradable waste and Non-degradable waste are collected and separately handed over to waste management section of City Corporation Belagavi for further process of recycling if any

- Control of parthenium and other weeds is a regular activity of Eco-Club and NSS, to tackle health hazards in the college campus
- Water based chemical reactions are carried out to minimize hazardous solvent chemical usage
- Computer animations of some chemical reactions are shown in the Chemistry laboratory which saves chemicals and related waste

∗ **e-waste Management**

- Electronic goods are put to optimal use. The minor repairs are done by the technical staff and the system engineers. The major repairs are done by the professional technicians and are re-used. Finally they are disposed off under buy back schemes of suppliers
- Dead UPS Batteries are exchanged for new with the suppliers
- Obsolete Computers, printers and other equipments are used for Information Communication Technology used for hardware demonstrations by BCA department of the college
- Computers, Printers and other ICT equipments which cannot be used are sold to licenced e-waste handlers
- The compact discs wastes are used by students for decoration and participation in competitions on the theme "**Art from Waste and Best out of waste**"

## 7.2 Innovations

### 7.2.1 Provide details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

- Innovations made in academic and related activities speak of the progress of the college by leaps and bounds

  The details of the innovations introduced during the last four years are enumerated below:
- Autonomy is implemented from the academic year 2012-13
- College has designed the curricula as per the autonomous rules and regulations. Stress is given to industrial needs and stakeholders' expectations
- Introduction of new interdisciplinary topics in core and elective subjects
- Communicative skill and Career Oriented programs have been introduced
- Advanced certificate course in Communication English has been initiated
- Projects are made mandatory in Electronics, Chemistry, Zoology, BCA departments for UG students and also for PG programmes
- Indian Constitution for I semester, Environmental Science and Human Rights for II semester, PD&CS for III semester and

Computer Applications for IV semester are introduced as mandatory papers

- **Twenty-two Certificate** Courses have been introduced to bridge the gap between Industrial needs and Academics. They enhance the knowledge, skills and employability skills of the students
- ICT based teaching- learning and use of smart boards
- Redesigning  curricula
- Paperless assignments through web techniques
- Intensive Spoken English training program
- Equal Opportunities Centre
- Delnet
- Introduction of  PG courses in Mathematics, Physics and Computer Applications
- CBCS system in PG program
- **NET / SLET** coaching for PG students
- **"GATE"** system to check promotion of a student to higher classes.
- New subject combinations viz., Mathematics Economics & Statistics and  Mathematics Electronics & Computer Science in UG courses
- Reforms in the examinations system with double evaluation of answer scripts
- **"My Hall My Bench"** seating arrangements System during semester examinations
- Topper as a teacher
- Engaging classes for UG students by PG students to sharpen teaching skills of PG students
- Web designing, Cloud computing for BCA students
- Major and Minor Research Projects, funded by UGC are carried out by our faculty members
- Opportunity provided to the students to interact with national and international level scientists in the centers like IISc. Bengaluru
- Conduct of National seminar on quality sustenance and faculty development program
- Interdisciplinary Minor Research Projects with financial assistance by UGC
- Poster presentations  by  students
- Student projects funded by VGST
- Paper and book publications by staff and students of the colleg
- Industrial Projects by our MCA section, Chemistry, Botany and Biotechnology departments
- Consultancy on water analysis, Soil testing, Lift Irrigation projects, Plant identification, Food adulteration and Histological slide preparation
- Training in Translation and drafting by language departments

- "**Each one Teach Two**" programme
- Wi-Fi facility in the campus
- Adoption of Bar-coding system in Library and Examination section
- Installation of Surveillance camera in the open access area of the library, Examination section and selected locations of the campus
- Library stock verification by the Computer Assisted-Portable Data Collection Terminal
- Provision of LCD and laptops in all departments
- Easy LiB Software installation in the library
- Incorporation of upper end software in the Examination section of the institution
- **Everyday flag hoisting** is in practice to instill the spirit of patriotism among students and staff
- Temperature digital display Kit
- Analysis of sound pollution at prime locations of the campus
- Concrete Basket Ball court
- Indoor sports training facility
- Lawn covered play field
- **Student safety scheme** by college under The New Assurance Company India Ltd
- Exemption of fees to meritorious students by charging only Rupees ten
- Financial assistance to students for the book publication.
- Use of ICT based technology-seminars/projects/ paper presentation/ quiz
- Book bank facility for BCA and MCA students
- Information about attendance/ IA marks /results to parents through SMS
- Updated website
- Mentoring to academically weaker sections of students and counseling to parents
- Talent hunt through Orientation programme
- Use of reference materials, e-books, google books, e-journals
- Voters ID for students and awareness to make corrections/new entries in the voters list of 2014(SVEEP-**S**ystematic **V**oter **E**ducation and **E**lectoral **P**rogram)
- Computerization of student profile
- **"RLSI Nidhi"**
- Spiritual and moral education
- College with a potentiality in securing University Ranks and Blues
- Introduction of certificate courses
- Introduction of add on courses to fine tune students skills
- Seed money for students' projects

- Restructuring of administrative and academic bodies/committees in accordance with autonomous guidelines
- Introduction of Biometric attendance for staff
- Sending attendance reports of students to the parents through SMS and hosting them on our website
- Internet facility in all the departments
- MIS inter connectivity
- Decentralized Participative management
- Internal and external Audit leads to financial transparency
- Self appraisal report as a tool for improvement of faculty

## 7.3 Best Practices:

### 7.3.1 Give details of any two best practices which have contributed to better academic and administrative functioning of the college.

*Best Practice – I*

1. **Title of the Practice**:

*"RLSI Nidhi"*

2. **Objectives of the practice:**
- The college intends the overall personality development of the students in addition to academic excellence
- Our college has created "**RLSI Nidhi"** in the year 2010. Faculty members are generously contributing money to this unique fund to help academically excellent and needy students of our college
- None should drop out of an educational course because of financial difficulties
- To provide a social dimension to the educational system of the college and inculcate societal responsibility and commitment among the faculty members of the college
- To ensure gender equality and make students access to higher education

3. **The Context:**
- Majority of the students of our college i.e. 70% are from rural background. Some academically excellent students are facing economic hardships to complete their education because of the weak financial position of their families. To suitably address this challenge, teaching staff of our college resolved to create a revolving fund called **"RLSI Nidhi"** to extend financial assistance to needy students. This is a financial endowment built with funds generously and spontaneously donated by the staff members of our college

### 4. The Practice:

- The Head of our Institution takes the faculty members into confidence by describing the financial conditions of meritorious students who are on the brink of discontinuing their education

- Activities undertaken by the students with the co-operation of the villagers for their development are also an yardstick for the selection of the students for financial assistance from this fund

- An interview of student applicants, who deserve RLSI Nidhi support, is conducted. After due verification of their academic performance and by a meticulous survey, the actual needy students are identified and the students' names are shortlisted for **"RLSI Nidhi"** help

- After completion of due formalities, the fund is dispersed to the selected students

### 5. Evidence of success

College has found no constrains in collecting the funds as could be seen from the magnitude of the fund which is increasing every year. The number of student beneficiaries is also increasing proportionately. The evidence of success behind the "**RLSI Nidhi**" is the image developed by our college among parents, alumni & students. The success of this can be judged from the feedback taken from the parents during the Parent –Teacher and Alumni meet.

Our healthy practice "**RLSI-Nidhi**" indeed boosted up not only the physical well-being of the beneficiaries but intellectual morale also. It is really heartening to state that twenty four students have excelled academically!  Such healthy practices go a long way in shaping the career of the students

### 6. Problems encountered and resources required

So far our college has not faced any problem towards the contribution to RLSI Nidhi or in its functioning.

### Best Practice – II

### 1. Title of the Practice:  "Help the Helpless"

### 2. Objectives of the practice:

Education broadens our vision.  The finer aspects of education change the attitude and outlook of a person. An educated person becomes broadminded hence; the civilized society has fostered the sense of equality.  Proper planning of educational policies and innovations shall foster the ideas of integrity. With the sincerity of feeling and purpose, we proceed with our best practices in a humble but fruitful way to help grow the helpless a lot.

This kind of practice helps the deprived children and physically and visually challenged whose health and development have been seriously impaired. The upliftment of orphans and kindling the light in the lives of blind persons goes a long way in making the human society more humane and civilized.

### 3. The Context:
- The Children who have lost their parents, who have destitute parents and a vulnerable group, live in abject poverty, become victim of the society. Sometimes they are exploited by unscruplous people, who force them to work. Such children have no chance of schooling. Orphanages are the shelters for them
- India is a country with the highest number of blinds in the world. The blindness is a curse to the mankind. Our college intends to help the blind people so that this deformity is overcome and they also can contribute to the society by leading normal life
- The abnormalities can be reduced by kind and nobel guestures of citizens. Hence, we are making efforts to strengthen human society by atleast minimizing if not eradicating completely

### 4. The Practice:
Inspiration for the development of orphans is the need of the hour. Students of our college have taken up this noble task to uplift such children by providing proper education at the early stage of schooling.

In Chikumbimath orphanage Belagavi, where in more than sixty orphans are sheltered. "**Spoorti**" volunteer team of our college visits the orphanage oftenly and engage classes. The teachers of our college contribute towards the health, food, clothing etc.

Voluntary contribution made by our staff and students towards **White Cane Day** celebration is sent annually to the **Indian Association of Blind (IAB)** Madurai Dist Tamilnadu.

Over all, our college wishes to provide better skills of living. This kind of social service helps the orphans to join the main stream of society.

### 5. Evidence of success:
Our students have developed a cordial environment with the young orphans so that they can grow up in the atmosphere of love and affection.

Voluntary contribution towards self-reliance of visually challenged children is a sign of love and peace, in true spirit of prosperity of mankind. The generous contribution especially by our students and staff is playing a vital role in this context. The magnitude of fund contribution is increasing every year. Looking at the activity of our college Indian Association of Blind (IAB) Madurai Dist. Tamilnaadu

honored our college as **Champions of generous help**. This is an evidence of success in a citation and certificate issued by IAB.

### 6. Problems encountered and resources required

During their visits, our college students have faced a number of difficulties and overcame successfully.

Orphans usually have extreme feeling of guilt and fear .Such children need a sensitive and understanding environment .Orphans gradually trust and develop relationships and in due course of time they express their inner feelings.They need to be loved and need social guidance**.**This kind of practice imparts moral values ,the sense of belongingness, teaching skills, etc. to our students.Try to give one to one attention to boost child's self-esteem and confidence.The mission of the team is to **SERVE** as best as possible and the beneficiary shall **SERVE** to best of his/ her ability.

# Evaluative Report of the Departments

## Department of Physics

**1.    Name of the Department & its year of establishment**

Department of Physics      - 1935
Department of Electronics  - 1988
Post Graduation            - 2010

**2.    Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D, etc.)**

- UG -B.Sc. (PCM, PME, PMS, MECs)
- PG
- Two Certificate Courses    :      Electrical Engineering
                                     Geophysics

**3.    Interdisciplinary courses and departments involved**

| Courses | Departments Involved |
|---------|---------------------|
| M.Sc. | Statistics |
|  | English |
| B.Sc. | Mathematics |
|  | Chemistry |
|  | Computer Science |
|  | Geography<br>Electrical & Electronics } from other colleges |

**4.    Annual/ semester/choice based credit system.**

- Semester  :  UG & PG
- Annual     : Certificate Courses
- CBCS        : PG

**5.    Participation of the department in the courses offered by other departments.**

- Department of Botany (Photo Electric Effect)
- Department of Mathematics(Statistics & Dynamics)
- Department of Chemistry(Molecular spectra and Atomic spectra)

**6.** **Number of teaching posts sanctioned and filled (Professors/ Associate Professors/ Asst. Professors)**

| 2014-2015 | | Sanctioned | Filled |
|---|---|---|---|
| UG | Professors | 13 | - |
| | Associate Professors | | 06 |
| | Asst. Professors | | 07 |
| PG | Professors | 04 | 01 |
| | Associate Professors | | 03 |

**7.** **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Faculty of the Department of Physics & Electronics for the year 2014-15

UG

| Sl. No. | Name of the faculty | Qualification | Designation | Specialization | Number of year of experience |
|---|---|---|---|---|---|
| 1 | Shri. S.V.Dalavai | M.Sc. | Asso. Prof | Spectroscopy | 39 |
| 2 | Shri. B.B.Bawache | M.Sc. | Asso. Prof | Solid State Physics | 33 |
| 3 | Dr. M.S.Patil | M.Sc., Ph. D. | Asso. Prof | Electronics | 35 |
| 4 | Shri. R.R.Wadagavi | M.Sc. | Asso. Prof | Solid State Physics | 28 |
| 5 | Shri. S.L.Galagali | M.Sc. | Asso. Prof | Solid State Physics | 25 |
| 6 | Shri. A.S.Pujar | M.Sc. | Asso. Prof | Nuclear Physics | 22 |
| 7 | Miss .S.G.Katti | M.Sc., B.Ed. | Asst Prof | Spectroscopy | 04 |
| 8 | Miss.S.V.Deshpande | M.Sc., B.Ed. | Asst Prof | Solid State Physics | 03 |
| 9 | Smt. S.Y.Potdar | M.Sc. | Asst Prof | Spectroscopy | 02 |
| 10 | Shri. U. D. Chikodi | M.Sc., B.Ed. | Asst Prof | Spectroscopy | 05 |
| 11 | Miss A K. Chivate | M.Sc., B.Ed. | Asst Prof | Solid State Physics | 01 |
| 12 | Shri. V K. Ganiger | M.Sc., B.Ed. | Asst Prof | Electronics | 12 |
| 13 | Smt. M M.Puranik | M.Sc., B.Ed. | Asst Prof | Electronics | 11 |

PG

| Sl. No. | Name of the faculty | Qualification | Designation | Specialization | Number of year of experience | No. of Ph.D. Students guided for the last 4 years |
|---|---|---|---|---|---|---|
| 1. | Dr. R.G. Kulkarni | M.Sc., Ph.D. | Emeritus Prof. | Nuclear Physics | 42 | 03 |
| 2. | Shri. A.D. Mulla | M.Sc. | Asso. Prof | Radio Physics in Electronics | 40 | - |

## 8. Percentage of classes taken by temporary faculty – programme – wise information

### UG Programme

#### Physics

| Year | Total staff | Permanent staff | Temporary staff | % of classes taken by Temporary Faculty |
|------|------|------|------|------|
| 2014-15 | 11 | 06 | 05 | 45.45 |
| 2013-14 | 09 | 06 | 03 | 33.33 |
| 2012-13 | 10 | 07 | 03 | 30.00 |
| 2011-12 | 09 | 07 | 02 | 22.22 |
| 2010-11 | 08 | 07 | 01 | 12.50 |

#### Electronics

| Year | Total staff | Permanent staff | Temporary staff | % of classes taken by Temporary Faculty |
|------|------|------|------|------|
| 2014-15 | 2 | 2 | - | - |
| 2013-14 | 2 | 2 | - | - |
| 2012-13 | 2 | 2 | - | - |
| 2011-12 | 2 | 2 | - | - |
| 2010-11 | 2 | 2 | - | - |

#### PG Programme in Physics

| Year | Total staff | Permanent staff | Temporary staff | % of classes taken by Temporary Faculty |
|------|------|------|------|------|
| 2014-15 | 04 | 02 | 02 | 50 |
| 2013-14 | 04 | 02 | 02 | 50 |
| 2012-13 | 04 | 02 | 02 | 50 |
| 2011-12 | 04 | 02 | 02 | 50 |
| 2010-11 | 03 | 02 | 01 | 33 |

## 9. Programme-wise Student Teacher Ratio

| Courses | Subject | Year | Students | Teachers | Ratio |
|------|------|------|------|------|------|
| UG | Physics | 2014-15 | 499 | 11 | 45:1 |
| | | 2013-14 | 472 | 10 | 47:1 |
| | | 2012-13 | 476 | 10 | 47:1 |
| | | 2011-12 | 488 | 09 | 54:1 |
| | | 2010-11 | 480 | 08 | 60:1 |
| | Electronics | 2014-15 | 69 | 02 | 34:1 |
| | | 2013-14 | 54 | 02 | 27:1 |
| | | 2012-13 | 48 | 02 | 24:1 |
| | | 2011-12 | 49 | 02 | 24:1 |
| | | 2010-11 | 53 | 02 | 26:1 |
| PG | Physics | 2014-15 | 56 | 04 | 14:1 |
| | | 2013-14 | 57 | 04 | 14:1 |
| | | 2012-13 | 54 | 04 | 14:1 |
| | | 2011-12 | 46 | 04 | 12:1 |
| | | 2010-11 | 20 | 03 | 7:1 |

10. **Number of academic support staff (technical) and administrative staff: sanctioned and filled**       **NIL**

11. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

**Minor Research Projects Funded by U.G.C**

| Sl. No. | Staff | Date | Title of Project | Amount Sanctioned | Amount Received | Status |
|---------|-------|------|------------------|-------------------|-----------------|--------|
| 1 | Shri. A S.Pujar | 28th Sept 2012 | Investigation of Spectroscopic properties in some molecules through Computational & Experimental Methods | ₹1,25,000 | ₹1,05,000 | Completed |
| 2 | Shri. S. L. Galagali | 28th March 2014 | Structural Electric & Magnetic properties of Cadmium substituted Magnesium Ferrite | ₹1,85,000 | ₹1,40,000 | Ongoing |
| 3 | Shri. B.B.Bavache | 23rd Sept 2013 | Spectroscopic studies of some organic Polyatoms by Computational methods | ₹85,000 | ₹52,500 | Ongoing |
| 4 | Dr.  M.S.Patil | 13th July 2012 | Simulation of Active & Passive Filters | ₹1,55,000 | ₹1,45,000 | Ongoing |
| | | | | **₹5,50,000** | **₹4,42,500** | |

12. **Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**       **--**

13. **Research facility / centre with**
    - state recognition      :     -
    - national recognition      :     -
    - international recognition      :     -
    - institutional research centre      :     01

14. **Publications:**
    - ∗ number of papers published in peer reviewed journals (national /international)      :     02
    - ∗ Monographs      :     -
    - ∗ Chapter(s) in Books      :     -
    - ∗ Editing Books      :     -
    - ∗ Books with ISBN numbers with details of publishers:  01
      Environmental cleanup using photocatalytic materials and surfaces by Dr. R. G. Kulkarni.
      ISBN Number: 9783-3-659-13151-6
      Publishers: LAMBERT Academic Publishers

∗ number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) :   -

∗ Citation Index – range / average        :     -
∗ SNIP                             :     -
∗ SJR                              :     -
∗ Impact factor – range / average      :     -
∗ h-index                          :     -

**15.  Details of patents and income generated    :     -**

**16.  Areas of consultancy and income generated**
- Area of Consultancy  :   Minor Lift Irrigation.
- Income generated    :   Honorary

**17.  Faculty recharging strategies**
- Arranging / Attending Faculty Development Programme
- Attending/ presenting papers in  seminars/ conferences
- Arranging Study tours
- Participation in Extension Activities
- Organizing seminars /Conferences/Workshops
- Publishing research papers in National/Intenationla Journals
- Browsing educational websites
- Participation in Group discussion
- Guiding the students in  research orientated  projects
- Taking up  inter-disciplinary research projects

**18.  Student projects**
- Percentage of students who have done in-house projects including inter-departmental
  >  PG – 100% (As per Curriculum)
  >  UG – 4 Projects per year
- Percentage of students doing projects in collaboration with industries / institutes
  PG –100% (Department of Physics, Saurashtra University, Rajkot, Gujarat and  Department of Physics, Marathawada University, Aurangabad, Maharashtra )

**19.   Awards / recognitions received at the national and international level by**
- Faculty       --
- Doctoral / post doctoral fellows: Dr. (Smt.) S S. Kalagi
- Students       --

- Mr. Vaibhav Sainaikar participated in National Level Tabala Competition at All India Inter University Youth Festival at Kurukshetra, Haryana from 18-02-2014 to 25 – 02 -2014.
- Mr. Prasad Sarwate got ₹13,000/- cash prize in Quiz programme, "Sports Quiz", conducted by Synergy, anchored by Quiz Master Siddarth Basu
- Mr. Sripad Joshi, Mr. Prasad Sarwate and Mr. Sushil Kataria secured 6<sup>th</sup> Place in Quiz conducted by IIT, Mumbai
- Miss. Manikya Patil & Miss. Pratibha Bandigani attended RD Camp at New Delhi

**University Ranks:**

**UG**

| SL. No. | Name Of The Student | University Rank | Year | University |
|---------|---------------------|-----------------|------|------------|
| 1. | Miss.Sushma Desaimath | I | 2014 | RCU |
| 2. | Miss.Marita J Carvalo | IX | 2014 | RCU |
| 3. | Shri.Akash Goravar | IV | 2013 | RCU |
| 4. | Miss.Gousia Deshnoor | VIII | 2013 | RCU |
| 5. | Miss.Naheen Akki | IV | 2012 | KUD |
| 6. | Miss.Bharati Hukkeri | VI | 2011 | KUD |
| 7. | Miss. Tejaswini B Dadanaikar | X | 2010 | KUD |

**\*KUD: Karnatak University, Dharwad.**
**\*RCU: Rani Channamma University, Belagavi.**

**PG**

| Sl. No. | Name Of The Student | University Rank | Year | University |
|---------|---------------------|-----------------|------|------------|
| 1. | Miss. Radhika Kokitkar | II | 2013 | RCU |
| 2. | Miss Poornima Kanti | III | 2013 | RCU |
| 3. | Miss. Sahana Sattigeri | I | 2012 | RCU |

**University Blues**

| Sl. No. | Name Of the students | Year | Events |
|---------|----------------------|------|--------|
| 1. | Mr Vinayak A Nayak | 2013-14 | Hockey |
| 2. | Mr Kartik Kulkarni | 2013-14 | Chess |
| 3. | Miss.Amila Mascarenhas | 2013-14 | Basketball, Netball |
| 4. | Miss.Bhakti Kamat | 2013-14 | Hockey |
| 5. | Mr Kunal Aptekar | 2013-14 | Netball |
| 6. | Miss.Tanzil Gokakar | 2013-14 | Hockey |
| 7. | Mr Dilnawaz Badami | 2013-14 | Basketball |
| 8. | Mr Adib V Yaksambi | 2013-14 | Cycling |
| 9. | Miss.Amila Mascarenhas | 2012-13 | Basket Ball |
| 10. | Mr Pranav Kulkarni | 2012-13 | Foot Ball |

| 11. | Mr Dilnawaz Badami | 2012-13 | Basket Ball |
|---|---|---|---|
| 12. | Miss.Divya Inamdar | 2012-13 | Hockey |
| 13. | Miss.Tanzil Gokakar | 2012-13 | Hockey |
| 14. | Miss.Bhakti Kamat | 2012-13 | Hockey |
| 15. | Mr Kirankumar Patil | 2012-13 | Basket Ball |
| 16. | Mr Dilnawaz Badami | 2012-13 | Net Ball |
| 17. | Miss.Amila Mascarenhas | 2012-13 | Basket Ball |
| 18. | Mr Pranav Kulkarni | 2012-13 | Foot Ball |
| 19. | Miss.Amila Mascarenhas | 2012-13 | Net Ball |
| 20. | Miss.Amila Mascarenhas | 2011-12 | Basket Ball |
| 21. | Miss.Priya Patil | 2011-12 | Shuttle Badminton |
| 22. | Miss.Lakshmi Khilare | 2011-12 | Shuttle Badminton |
| 23. | Miss.Amila Mascarenhas | 2011-12 | Basket Ball |
| 24. | Mr. Kiran Kumar G Patil | 2010-11 | Basket Ball |
| 25. | Miss. Akshata Jakkannavar | 2010-11 | Basket Ball |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.**

**Seminars**

| Title & Date | Agency | Guest Speaker | Topic |
|---|---|---|---|
| The new frontiers of Nanotechnology in material science 26th and 27th Nov 2010 | Self Funding | 1)**Prof. G.U.Kulkarni** Jawaharlal Nehru Centre for Advanced Scientific Research,Bengaluru | Nanodevice fabrication |
| | | 2) **Dr.Stefan Heun** Senior Scientist, 'NEST' Pisa,Italy | Semiconductor Nanowires |
| | | 3) **Prof. S.M.Eswarmoorthy** JNCASR, Bengaluru. | Nanomaterials in Biology |
| | | 4) **Prof.S.M.Shivaprasad** JNCASR, Bengaluru. | Towards superefficient solar cells & LEDs |
| | | 5) **Prof.Jayanta Haldar** JNCASR, Bengaluru. | Nano-Engineering of polymeric biomaterials to tackle infectious diseases |
| | | 6)**Prof.R.G.Kulkarni** Former Head,Department of Physics,Saurashtra University Rajkot ,Gujarat | Nano science & nanotechnology revolution |
| | | 7)**Prof.D.H.Rao** Principal,Jain College Of Engineering, Belagavi | Nanotechnology : The future science |

| Title | Agency | Guest Speaker | Topic |
|---|---|---|---|
| Nanomaterials & their applications<br><br>13th and 14th March 2012 | UGC | **1)Dr. Pramod Patil**<br>Co-ordinator, School of Nanoscience and Technology, Shivaji University, Kolhapur | Energy Harvesting Nanomaterials |
| | | **2) Dr.C.H.Bhosale**<br>Professor and Head of Physics Department ,Shivaji University,Kolhapur | Purification of water using Nanotechnology |
| | | **3) Dr.Meenal Kowshik**<br>Asst. Professor of Biological Science,BITS Pilani,Goa campus | Bionanomaterials : Synthesis and Potential Applications. |
| | | **4)Dr.N.S.Sankeshwar**<br>Professor and Former Chairman of Physics ,Karnataka University, Dharwad | Thermoelectric Energy and Nanostructure |

## Workshops

| Title & date | Agency | Guest Speaker |
|---|---|---|
| 1. Workshop for high School Teachers<br>4th April 2013 | Self funding | 1) Prof.S.K.Hukkeri<br>Department of Physics,G.S.S College, Belagavi<br><br>2) Dr.M.S.Patil<br>Department of Physics,<br>R.L.Science Institute (Autonomous), Belagavi<br><br>3) Prof(Smt).Shital.S.Patil<br>Principal, Institute of Faculty Development , Belagavi |
| 2. Workshop on Modelling Rocketry<br>6th March 2014 | Self funding | 1)Prof.S.G.Kulkarni<br> Head of E & E Department, GIT Belagavi<br><br>2) Trainer : Shri. Rajshekhar Patil,<br>Co-ordinator, Science Centre,<br> Belagavi |
| 3.Workshop on project lab concept in Science Institution<br>18th July 2014 | Self funding | Shri, Ganesh. Kabade<br>Area Manager ,North Karnataka, Advanced Electronics Systems(AES), Bengaluru |

## 21. Student profile course-wise:

### UG Programme
### Physics

| Name of the Course | Year | Applications received | Selected | | Pass percentage | |
|---|---|---|---|---|---|---|
| | | | Male | Female | Male | Female |
| B.Sc. | 2014-15* | 201 | 63 | 138 | 74 | 90 |
| | 2013-14 | 179 | 73 | 106 | 90 | 96 |
| | 2012-13 | 210 | 91 | 110 | 81 | 89 |
| | 2011-12 | 159 | 65 | 94 | 91 | 92 |
| | 2010-11 | 202 | 98 | 104 | 81 | 90 |

\* Results of I Semester only

### Electronics

| Name of the Course | Year | Applications received | Selected | | Pass percentage | |
|---|---|---|---|---|---|---|
| | | | Male | Female | Male | Female |
| B.Sc. | 2014-15* | 32 | 17 | 15 | 59 | 86 |
| | 2013-14 | 27 | 13 | 14 | 88 | 100 |
| | 2012-13 | 19 | 09 | 10 | 81 | 65 |
| | 2011-12 | 12 | 08 | 04 | 57 | 88 |
| | 2010-11 | 27 | 15 | 12 | 84 | 92 |

\* Results of I Semester only

### PG Programme

| Name of the Course | Year | Applications received | Selected | | Pass percentage | |
|---|---|---|---|---|---|---|
| | | | Male | Female | Male | Female |
| M.Sc. | 2014-15* | 27 | 18 | 09 | 50 | 89 |
| | 2013-14 | 30 | 12 | 18 | 85 | 99 |
| | 2012-13 | 30 | 11 | 19 | 63 | 82 |
| | 2011-12 | 26 | 15 | 11 | 27 | 50 |
| | 2010-11 | 20 | 09 | 11 | 68 | 61 |

\* Results of I Semester only

## 22. Diversity of Students
### Physics

| Name of the Course | Year | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|---|---|---|---|---|---|
| B.Sc. | 2014-15 | 16.4 | 97.1 | 2.9 | - |
| | 2013-14 | 32 | 100 | - | - |
| | 2012-13 | 32 | 100 | - | - |
| | 2011-12 | 38 | 99 | 1 | - |
| | 2010-11 | 34 | 100 | - | - |

**Electronics**

| Name of the Course | Year | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|---|---|---|---|---|---|
| B.Sc. | 2014-15 | 12.5 | 93.75 | 6.25 | - |
| | 2013-14 | 12 | 100 | - | - |
| | 2012-13 | 21 | 100 | - | - |
| | 2011-12 | 34 | 92 | 8 | - |
| | 2010-11 | 41 | 100 | - | - |

**Physics PG**

| Name of the Course | Year | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|---|---|---|---|---|---|
| M.Sc. | 2014-15 | 22.22 | 85.2 | 14.8 | |
| | 2013-14 | 20 | 96.55 | 3.45 | - |
| | 2012-13 | 03 | 100 | - | - |
| | 2011-12 | 12 | 100 | - | - |
| | 2010-11 | 05 | 100 | - | - |

23. **How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?**
- Mr. Shuklambar Pattar     -     Defence
- Miss. Asma Ganachari,     -     SLET
- Mr. Shashi Barker     -     SLET
- Miss. Tangevva Bajantri     -     GATE, NET

24. **Student progression**

| Student Progression | Percentage against enrolled | | | |
|---|---|---|---|---|
| | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| UG to PG | 29.35 | 39.41 | 25.46 | 25.80 |
| PG to M.Phil | - | - | - | - |
| PG to Ph.D | - | - | - | - |
| Ph.D to Post Doctoral | - | - | - | - |
| Employed<br>• Campus selection<br>• Other than campus recruitment | 0.92<br>- | 16.66<br>65 | 13<br>60 | 9.67<br>70 |
| Entrepreneurs | • Mr. Premanand Gurav, CEO, Katwa Cement<br>• Mr. Malagouda Patil, Industrialist, Dharwad | | | |

## 25. Diversity of staff

**Physics and Electronics**

| Percentage of faculty who are graduates | 2014-15 R.C.U | PG |
|---|---|---|
| Of the parent University (parent University came into existence from 2010) | 13.34 | - |
| From other University within the state | 86.66 | 100 |
| From other University from other states | - | - |

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.
- 01   - Dr.(Smt). S.S.Kalagi

## 27. Present details about infrastructural facilities
   a) **Library**
      **Departmental Library Books**          : 288
      **Central Library Books**                    : 5186
         **Journals**                                    : 08
         **Subject CDs**                              : 07
         **Magazines**                                 : 02
   b) **Internet facilities for staff and students   : 02**
   c) **Total Number of class rooms          : 08**
   d) **Class rooms with ICT facility          : 08**
   e) **Students' laboratories                    : 07**
   f) **Research Laboratories                     : 01**

## 28. Number of students of the department getting financial assistance from college.

| Financial assistance | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 |
|---|---|---|---|---|---|
| R.L.S I  Nidhi | 12 | 16 | 19 | 12 | 10 |
| Endowment cash prize | 10 | 10 | 11 | 17 | - |
| KSSW | 15 | 33 | 33 | - | - |
| Student Aid Fund | 15 | 33 | 33 | - | - |
| Staff of the Dept. | - | - | - | - | 02 |

## 29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Yes, in view of changing needs of the society and making students self employed, our alumni, parents and subject experts gave their valued suggestions for the development of new programme. Such suggestions were collected in the form of feedback and discussions. As a result:

- PG course in Physics is started
- Certificate courses are introduced
- New subject combination " Electronics, Mathematics and Computer Science" is introduced

**30.  Does the department obtain feedback from**

**a.  faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes, departmental meetings are conducted to discuss the syllabus, teaching methodology to be adopted, practicals and the examination pattern. The draft syllabus for the programme is sent to the experts for their suggestions. Then the modified syllabus is discussed in the BoS meeting and approval is taken from the Academic Council and Governing Body.

**b.  students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Yes, feedback is taken from the students on staff, curriculum and teaching - learning and evaluation. After analyzing the feedback the shortcomings, if any, the HoDs discuss with the staff and thereby include new chapters in the syllabus.

**c.  alumni and employers on the programmes and what is the response of the department to the same?**

Yes, suggestions are obtained on the curriculum from the alumni and employers, then the suggestion are discussed in the departmental meetings and recommended to the BoS.  The department positively responds to the suggestions.

**31.  List the distinguished alumni of the department (maximum 10)**

- Dr. Kameshwar  Wali (Scientist, Syracuse University, USA)
- Dr.(Smt) Milan Naphade, Scientist, New Jersy USA
- Dr. Chaitanya Hiremath (Scientist America)
- Dr. Collin D'Silva ,Former Vice Admiral ,Indian Navy
- Shri. V.N. Misale (Scientist, ISRO, Bengaluru)
- Dr. Sanjeev Inamadar (Former Chairman, Physics Department, KUD)
- Shri Shrinath Joshi, IPS (S.P. Haveri District)
- Shri M.G. Hiremath KAS( Joint Commissioner, Commercial Tax and Sales Tax)
- Dr. Basavraj V. Patil, IFS, Deputy Conservative Officer, Belagavi
- Grp. Capt. Sunil Sadashivpeth, Indian Air Force, Port Blaire.
- Dr. Nutan Madikeri, Senior Scientist, IIT, Bombay

## 32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.

For the year 2014-15

| Sl. No. | Date | Experts | Topic |
|---|---|---|---|
| 1 | 18-07-2014 | Shri, Ganesh. Kabade Area manager ,North Karnataka, Advanced Electronics Systems (ALS), Bengaluru | Workshop on project lab concept in science institution |
| 2. | 22-09-2014 | Dr. Vishnupant. Misale Scientist, ISRO, Bengaluru. | Mangalayana |

For the year 2013-14

| Sl. No. | Date | Experts | Topic |
|---|---|---|---|
| 1 | 28-08-2013 | Shri. Vijaykumar Sarvade, Coordinator, Science Centre, Belagavi | Stellar Evolution |
| 2 | 28-09-2013 | Dr. R R. Modholkar, Chairman, Department of Electronics, Shivaji University, Kolhapur | Fuzzy Logic |
| 3 | 17-01-2014 | Dr.Nitin Khot Environmentalist & Social Activist, Belagavi | Imperatives of Renewable Energy |
| 4 | 06-03-2014 | Prof. S G. Kulkarni HOD of E&E GIT College, Belagavi | Modelling Rocketry |

For the year 2012-13

| Sl. No. | Date | Experts | Topic |
|---|---|---|---|
| 1 | 5-10-2012 | Dr. Hansraj Guhilot HOD,E & C department, KLE's Dr. M.S Sheshigiri Institute of Engineering and Technology, Belagavi | History of communication |
| 2 | 08-01-2013 | Shri Anand Hukkeri, Co-Ordinator, ASHA Planetorium, Ganeshpur, Belagavi | Our Sky |
| 3 | 27-02-2013 | Dr. Nathuram Rohila, Scientist BARC, Mumbai | Carrier Opportunities in BARC |
| 4 | 28-02-2013 | Dr. C G. Patil., Dept of Genetics, Karnatak University Dharwad | Genetically Modified Crops and food Security |

For the year 2011-12

| Sl. No. | Date | Experts | Topic |
|---|---|---|---|
| | 13<sup>th</sup> and 14<sup>th</sup> March 2012 | **1)Dr. Pramod Patil** Co-ordinator, School of Nanoscience and Technology, Shivaji University, Kolhapur **2) Dr.C.H.Bhosale** Professor and Head of Physics Department ,Shivaji University,Kolhapur **3) Dr.Meenal Kowshik** Asst. Professor of Biological Science,BITS Pilani,Goa campus **4)Dr.N.S.Sankeshwar** Professor and Former Chairman of Physics ,Karnataka University, Dharwad | National Seminar on Nano materials & their applications |

For the year 2010-11

| Sl. No. | Date | Experts | Topic |
|---|---|---|---|
| 1 | 04-01-2010 | Dr. Kameshwar Wali (Scientist, Syracuse University, USA) | Elementary Particles |
| 2 | 21-10-2010 | Mr. NVVJ Swamy, Oklahoma State University, Still Water, USA | Modern Physics & Ancient Indian Culture |

**33. List the teaching methods adopted by the faculty for different programmes.**
- Chalk and Talk Method
- ICT based teaching
- OHP(Over Head Projector)
- Group Discussion
- Student as a Teacher
- Study Tour
- Seminars
- Project Work
- Subject C.Ds
- Use of Smart Boards
- Demonstration method

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

The department ensures with help of the following processes its objectives that are constantly met and learning outcomes monitored

- Through Mentor System
- Seminars
- Continuous Assessment System
- Attendance Committee
- Result Analysis
- Alumni Meeting
- Parents Meeting
- Peer Observations
- One to one interaction with students
- Teaching plan and teaching schedule
- Science day celebration
- Awareness programs

**35. Highlight the participation of students and faculty in extension activities.**

- Construction and launching of rocket models by B.Sc students of Belagavi district
- Department is equipped with four inched diameter telescope: To observe crater, dips, valleys on moon, an extension activity named 'Chandamama' is conducted for school children of Belagavi city
- Organised one day work shop for high school teachers to bridge the gap between state and CBSE syllabus
- National Science Day is Celeberated on 28th February by conducting Essay, Quiz & PPT competitions
- Swachh Bharat Abhiyan conducted on 2nd October 2014
- 'Namma Guru'. Watching the Planet Jupiter and its satellites. An extension activity conducted for people of Belagavi city

**36. Give details of "beyond syllabus scholarly activities" of the department.**

- **National Seminars**
  a) Nano Materials And their Applications
  b) The new Frontiers of Nanotechnology in Material Science
- **Workshops**
  a) One day Workshop for Highschool teachers
  b) One day Workshop for Belagavi district B.Sc. students on "Modelling Rockectry"
  c) One day Workshop for B.Sc III year students on Project lab concept in science institution
- Arranging Guest Lectures

- Two Certificate Courses are introduced
- Paper Presentation by staff members and students in National seminar / conferences
- Project Works by staff and students
- Visiting as a resource person
- One MRP is completed and Three MRP's are ongoing
- Visit to Research Centers

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

Department as a unit is not accredited individually. However the college as a whole is accredited and re-accredited by NAAC.

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength:**
- Provision for Higher Education in our Department
- Excellent results
- Laboratories are Equipped with Sophisticated Modern Equipments
- Certificate Courses & MRP
- Wide spread network of alumni

**Weakness:**
- No Major Research Projects
- Few paper publications

**Opportunities :**
- To establish the research laboratory in our department
- To start new certificate courses
- To start coaching for NET/ SLET
- To attend and present papers national/international seminars
- Motivation to carry out the Inter-disciplinary Research work /Training programs
- Research Publications

**Challenges :**
- To enrich the performance of slow learners
- To enhance the outcome of competitive Examination
- To increase the number of students taking up research at National/ International institutes
- Collaborating with Reputed Research Institutes/ Industries
- To attract more number of meritorious students
- To increase the number of project work and MRP

39. Future plans of the department.
- To arrange National Seminar on current topics
- Workshop for students

# Department of Chemistry

1. **Name of the Department & its year of establishment**

    Name of the Department    :    Chemistry
    Year of establishment      :    1935

2. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

    **B.Sc. course (PCM, CBZ, CBBt, CZBt)**
    **Two Certificate courses**

3. **Interdisciplinary courses and departments involved**

    | Courses | Departments involved |
    |---------|----------------------|
    | B.Sc. | Physics, Botany, Zoology and Biotechnology |

4. **Annual/ semester/choice based credit system**

    **UG courses - Semester system**
    **Certificate courses - Annual**

5. **Participation of the department in the courses offered by other departments**

    | Department | Topics |
    |------------|--------|
    | Physics | Atomic Structure |
    | Botany | Biomolecules |
    | Zoology | Amino acids and proteins |
    | Biotechnology | Carbohydrates, Vitamins and Hormones |

6. **Number of teaching posts sanctioned and filled (Professors/ Associate Professors/ Asst. Professors)**

    | | 2014-15 | |
    |---|---|---|
    | | **Sanctioned** | **Filled** |
    | **Professors** | | - |
    | **Associate Professors** | 12 | 8 |
    | **Asst. Professors** | | 4 |

## 7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

### YEAR 2014-15

| Name | Qualification | Designation | Specialization | No. of Years of Experience |
|------|---------------|-------------|----------------|----------------------------|
| Shri. V.G. Astagi | M.Sc. | Principal I/C Associate Professor | Inorganic | 38 Yrs. |
| Shri. A.R. Tardale | M.Sc. M.Phil. | Asso. Prof. | Organic | 32 Yrs. |
| Shri. U.R. Rajput | M.Sc. | Asso. Prof. | Physical | 25 Yrs. |
| Shri. N.B. Gokavi | M.Sc. | Asso. Prof. | Physical | 22 Yrs. |
| Shri. R.A. Yadahalli | M.Sc. | Asso. Prof. | Physical | 22 Yrs. |
| Dr. B. G. Bevinakatti | M.Sc. Ph.D. | Asso. Prof. | Biochemistry | 22 Yrs. |
| Shri. B.K. Patil | M.Sc. | Asso. Prof. | Physical | 22 Yrs. |
| Shri. S.D. Gorinaik | M.Sc. | Asso. Prof. | Inorganic | 22 Yrs. |
| Smt. Danamma Shetter | M.Sc. | Asst. Prof. | Biochemistry | 05 Yrs. |
| Shri. Annasab N.H. | M.Sc. B.Ed. | Asst. Prof. | Organic | 04 Yrs. |
| Shri. Anand. S. Nayak | M.Sc. | Asst. Prof. | Organic | 01 Yrs. |
| Smt. B.B. Rachotimath | M.Sc. | Asst. Prof. | Physical | 01 Yrs |

## 8. Percentage of classes taken by temporary faculty – program-wise information

### UG Programme

| Year | Total no. of staff | Temporary faculty | Percentage of classes taken |
|------|--------------------|--------------------|------------------------------|
| 2014-15 | 12 | 4 | 33.33 |
| 2013-14 | 12 | 4 | 33.33 |
| 2012-13 | 12 | 3 | 25.00 |
| 2011-12 | 12 | 3 | 25.00 |
| 2010-11 | 12 | 2 | 16.67 |

## 9. Programme-wise Student Teacher Ratio

### UG Programme

| Year | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
|------|---------|---------|---------|---------|---------|
| Total student strength | 653 | 585 | 584 | 543 | 538 |
| Total No of Teachers | 12 | 12 | 12 | 12 | 12 |
| Student: Teacher | 55:1 | 49:1 | 49:1 | 46:1 | 45:1 |

## 10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

### NIL

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

| Sl. No. | Name of the faculty | Title of the project | Grant (Amount) | Year of Sanction | Position |
|---|---|---|---|---|---|
| 1. | Shri. N. B. Gokavi | Ambient air quality of Belagavi city | 60,000/- | 30th Mar. 2009 | Completed (Mar 2011) |
| 2. | Shri. V. G. Astagi | The Study of Adverse Effects of Medicines and Substitute for such Medicines by Eco-Friendly Medicines | ₹1,10,000/- | 30th Mar. 2011 | Completed (Mar 2012) |
| 3. | Shri. R.A. Yadahalli | Resistance of polymer modified fly ash concrete subjected to chloride attack. | ₹80,000/- | 3rd Nov. 2011 | Completed (April 2014) |
| 4. | Shri. B.K. Patil | Removal of industrial wastewater colour by use of low cost adsorbents. | ₹1,10,000/- | 3rd Nov. 2011 | Completed (April 2014) |
| 5. | Shri. S.D. Gorinaik | Ground water quality assessment of Belagavi city. | ₹1,00,000/- | 3rd Nov. 2011 | Completed (April 2014) |
| 6. | Smt. C.S. Patil | Synthesis and characterization of Nitro and Thio substituted simple Heterocyclic derivatives of Triazine trichloride. | ₹1,60,000/- | 3rd Nov. 2011 | Completed (April 2014) |
| 7. | Shri. U. R. Rajput | Design, Synthesis and Antimyco bacterial evaluation of pyrazole analogs | ₹1,00,000/- | 23rd Sept. 2013 | Ongoing |
| **Total Amount Received from UGC** | | | **₹7,20,000/-** | | |

**Funding agency: UGC**

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

**Nil**

**13. Research facility / centre with**
- **state recognition** : -
- **national recognition** : -
- **international recognition** : -
- **institutional research center** : One

**14.    Publications:**
*   **number of papers published in peer reviewed journals (national / international)**                           :       Two
*   **Monographs**                                           :       -
*   **Chapter(s) in Books**                              :       One
*   **Editing Books**                                       :       -
*   **Books with ISBN numbers with details of publishers:  -**
*   **number listed in International Database (For *e.g*. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**                                                :       -
*   **Citation Index – range / average**  :       70
*   **SNIP**                                                   :       -
*   **SJR**                                                     :       -
*   **Impact factor – range / average**   :       1.612 & 1.68
*   **h-index**                                               :       -

**15.    Details of patents and income generated**

**Nil**

**16.    Areas of consultancy and income generated**
**Consultancy**              :               Soil Testing and Water analysis
**Income generated**     :               Honorary

**17.    Faculty recharging strategies**
*   Attending Faculty development programmes
*   Presenting research papers in conferences/seminars
*   Organizing/participating in seminars/ conferences / workshops
*   Participation in Group discussions
*   By visiting Research Centers and Institutes of Higher Education
*   Exploring knowledge through excursion/field trips and industrial visits
*   By attending orientation/refresher courses
*   Browsing educational websites
*   Taking up Minor Research Projects

**18.   Student projects**
*   **percentage of students who have done in-house projects including inter-departmental**

Twelve projects

*   **percentage of students doing projects in collaboration with industries / institutes**

for VI Sem Students 100%
(as per curriculum)

**19. Awards / recognitions received at the national and international level by**

- Faculty : -
- Doctoral/post doctoral fellows : -
- Students
  1. Miss Juhi Singh is awarded **Kishor Vigynan Scholarship** and she got an opportunity to interact with National and International level scientists at Indian Institute of Sciences, Bengaluru (IISc).
  2. Miss Priya R K, VI Sem secured **second prize** in paper presentation on Global Waste Management at UGC sponsored national conference on 19$^{th}$ & 20$^{th}$ Dec 2014 at G. I. Bagewadi Arts, Science, Commerce & PG College, Nippani.
  3. Miss Jainabi Mulla attended Republic Day camp held at Delhi 2012 and secured **first position** in Radio Controlled Glider Model and **first position** in Static Model- Pr-II competition.
  4. Miss Shreya Havanoor, VI Sem. secured **first prize** in paper presentation on Nano technology in medicine at UGC sponsored national seminar on 7$^{th}$ & 8$^{th}$ Feb 2013 at B. K. College, Chikkodi.
  5. Miss Priyanka Dalawai, IV Sem. secured third prize in paper presentation on Nano technology in medicine at UGC sponsored national seminar on 7$^{th}$ & 8$^{th}$ Feb 2013 at B. K. College, Chikkodi.
  6. Mr. Vaibhav Sainaikar participated in **National Level** Tabala Competition at All India Inter University Youth Festival at Kurukshetra, Hariyan from 18-02-2014 to 25-02-2014.
  7. Mr. Prasad Sarwate won in Quiz competition, "Sports Quiz", conducted by Synergy, anchored by Quiz **Master Siddarth Basu**.
  8. Mr. Sripad Joshi, Mr. Prasad Sarwate and Mr. Sushil Kataria secured 6$^{th}$ Place in Quiz conducted by IIT, Mumbai.
  9. Mr. Adib Yaksambi won **Bronze medal** in All India Sabarmati Cyclothon Competition held at Ahmedabad.
  10. Miss. Radha Sanganaikar got Consolation Prize in Bharatnatyam, South Zone Youth Festival held at Kalaburagi University, Kalaburagi.

## University Ranks:

| Sl. No. | Name | University Rank | Year | University |
|---|---|---|---|---|
| **1.** | Miss. Manorama V Powar | V | 2010 | K.U.D |
| **2.** | Miss. Nandita V Haladankar | IX | 2010 | K.U.D |
| **3.** | Miss. Tejaswini B Dadanaikar | X | 2010 | K.U.D |
| **4.** | Miss. Bharati Hukkeri | VI | 2011 | K.U.D |
| **5.** | Miss. Naheen Akki | IV | 2012 | K.U.D |
| **6.** | Shri Akash Goravar | IV | 2013 | R.C.U |
| **7.** | Miss Gousia Deshnoor | VIII | 2013 | R.C.U |
| **8.** | Miss. Sushma Desaimath | I | 2014 | R. C. U |
| **9.** | Miss. Merita Carvalo | IX | 2014 | R. C. U |

## University Blues:

| Sl. No | Name | Year | Event |
|---|---|---|---|
| 1 | Shri. Kiran Kumar G Patil | 2010-11 | Basket Ball |
| 2 | Miss. Akshata Jakkannavar | 2010-11 | Basket Ball |
| 3 | Miss. Amila Mascarenhas | 2011-12 | Basket Ball |
| 4 | Miss. Lakshmi Khailare | 2011-12 | Shuttle Badminton |
| 5 | Miss. Amila Mascarenhas | 2012-13 | Basket Ball |
| 6 | Shri. Pranav Kulkarni | 2012-13 | Foot Ball |
| 7 | Miss. Bhakti Kamat | 2012-13 | Hockey |
| 8 | Miss. Amila Mascarenhas | 2012-13 | Basket Ball |
| 9 | Shri. Pranav Kulkarni | 2012-13 | Foot Ball |
| 10 | Miss. Amila Mascarenhas | 2012-13 | Net Ball |
| 11 | Shri. Vinayak A Nayak | 2013-14 | Hockey |
| 12 | Shri. Kartik Kulkarni | 2013-14 | Chess |
| 13 | Miss. Amila Mascarenhas | 2013-14 | Basketball, Netball |
| 14 | Miss. Bhakti Kamat | 2013-14 | Hockey |
| 15 | Shri. Adib V Yaksambi | 2013-14 | Cycling |
| 16 | Shri. Saif Ul Alum | 2014-15 | Hockey |
| 17 | Shri. Adib Yaksambi | 2014-15 | Cycling |
| 18 | Shri. Karthik Kulkarni | 2014-15 | Chess |
| 19 | Miss. Geeta Ramshetty | 2014-15 | Shuttle Badminton |
| 20 | Miss. Sneha Kakatikar | 2014-15 | Shuttle Badminton |
| 21 | Miss. Neha Kothare | 2014-15 | Chess |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

**UGC Sponsored National Seminar was organized on Eco-Friendly chemicals on 8th & 9th September 2011.**

| Date | Outstanding Participants | Topic |
|---|---|---|
| 8th and 9th Sept 2011 | **1. Dr. A. B. Halageri** Director, Poorna Prajna Institute of Scientific Research, Bengaluru **2. Dr. G. S. Gokavi** Dept of Chemistry Shivaji University,Kolhapur | **Eco-Friendly Chemicals** **Eco-Friendly Solvents** |

| | | |
|---|---|---|
| **3. Dr. Shreeshailappa Badami** Shree Siddaganga college of Pharmacy,Tumkur | **Green Alternatives to environmental toxicants** | |
| **4. Dr. V. P. Veerapur** Shree Siddaganga college of Pharmacy,Tumkur | **Green chemistry tools** | |
| **5. Dr. K. S. Rane** Former Chairman, Dept of chemistry Goa University, Goa | **Energy effective environmentally friendly chemical processes** | |

## 21. Student profile course-wise:

| Name of the Course | Year | Applications received | Selected | | Pass percentage | |
|---|---|---|---|---|---|---|
| | | | Male | Female | Male | Female |
| B.Sc. I | 2014-15 | 239 | 81 | 158 | 73.85 | 82.35 |
| | 2013-14 | 247 | 96 | 151 | 88 | 89 |
| | 2012-13 | 256 | 95 | 161 | 90 | 92 |
| | 2011-12 | 171 | 66 | 105 | 80 | 80 |
| | 2010-11 | 224 | 91 | 133 | 90 | 90 |

## 22. Diversity of Students

| Name of the Course | Year | % of Students from the college | % of students from the state | % of Students from other States | % of Students from other countries |
|---|---|---|---|---|---|
| B.Sc. I | 2014-15 | 16.73 | 81.61 | 1.66 | - |

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

| | | |
|---|---|---|
| Mr. Shuklambar Pattar | - | SSB |
| Miss. Tangevva Bhajantri | - | GATE & NET |
| Miss. Asma Ganachari | - | SLET |
| Miss. Shilpa Birje | - | NET |
| Mr. Parveen Nadaf | - | SLET |

## 24. Student progression

| Student progression | Percentage against enrolled | | | | |
|---|---|---|---|---|---|
| | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| UG to PG | | 60.74 | 47.6 | 28.94 | 49.18 |
| PG to M.Phil. | - | - | - | - | - |
| PG to Ph.D. | - | 2.9 | - | - | - |
| Ph.D. to Post-Doctoral | - | - | - | - | - |
| Employed • Campus selection • Other than campus recruitment | | 7.4 2.9 | 5.29 2.1 | 4.7 1.57 | 2.45 4.0 |
| Entrepreneurs | 1. Anand Darur, Autonagar Belagavi 2. Mallikarjun Wani, Tissue culture, Nidasoshi 3. Yogita S. Joshi properiter of medical store Belgavi 4. Rudrappa Godageri, Tata Solar Agencies | | | | |

**25. Diversity of staff**

Parent University came into existence in the year 2010

| Percentage of faculty who are graduates | 2014-15 RCU |
|---|---|
| of the parent university (parent University came into existence from 27-07-2010) | -- |
| from other university within the State | 100 |
| from other university from other States | -- |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

**Nil**

**27. Present details about infrastructural facilities**

    **a. Library**

| | | | |
|---|---|---|---|
| **Departmental Library** | **Books** | : | **312** |
| | **Projects** | : | **-** |
| | **MRP/ Thesis** | : | 07 |
| | CDs | : | 10 |
| **Central Library** | **Books** | : | 5575 |
| **Journals** | | : | 08 |
| Magazines | | : | 04 |
| **Subject CDs** | | : | 10 |

    **b. Internet facilities for staff and students** : **2 PCs**
                                              **4 Laptops**
    **c. Total Number of class rooms** : **06**
    **d. Class rooms with ICT facility** : **06**
    **e. Students' laboratories** : **04**
    **f. Research Laboratories** : **01**

**28. Number of students of the department getting financial assistance from College.**

| Financial assistance | Number of students year wise | | | | |
|---|---|---|---|---|---|
| | **2014-15** | **2013-14** | **2012-13** | **2011-12** | **2010-11** |
| **R. L. S. I Nidhi** | 15 | 11 | 22 | 18 | 11 |
| **Endowment cash prize Scholarship from Chemistry faculty** | 01 | 01 | 01 | 01 | 01 |
| **Scholarship from Shri. M. D. Chennangi.** | 01 | 01 | 01 | 01 | 01 |
| **Cash prize (by faculty)** | 01 | 00 | 00 | 00 | 00 |
| **Student Aid Fund** | - | 33 | 33 | 33 | 15 |
| **K.S.S.W** | - | 33 | 33 | 33 | 15 |
| **Endowment Cash Prize** | - | 17 | 11 | 10 | 10 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes, in view of changing needs of the society and making students self employed, our alumni, parents and subject experts gave their valued suggestions for the development of new programme. Such suggestions were collected in the form of feedback and discussions. As a result, certificate courses introduced.

**30. Does the department obtain feedback from**

**a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes, departmental meetings are conducted to discuss the syllabus, teaching methodology to be adopted, practicals and the examination pattern. The draft syllabus for the programme is sent to the experts for their suggestions. Then the modified syllabus is discussed in the BoS meeting and approval is taken from the Academic Council and Governing Body

**b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Yes, feedback is taken from the students on staff, curriculum and teaching - learning and evaluation. After analyzing the feedback the shortcomings, if any, the HoDs discuss with the staff in the department and accordingly suggestions are given for the improvement.

**c. alumni and employers on the programmes and what is the response of the department to the same?**

Yes, suggestions are obtained on the curriculum from the alumni and employers, then the suggestion are discussed in the departmental meetings and recommended to the BoS. The department positively responds to the suggestions.

**31. List the distinguished alumni of the department (maximum 10)**

| Sl. No. | Name of the Alumni | Prominent position | Place |
|---|---|---|---|
| 1 | Dr. R. J. Galagali | Former Vice-Chancellor, Hindu Banaras University, Banaras | Belagavi |
| 2 | Shri. S. I. Vijapure | Gen. Manager CFTRI | Mysore |
| 3 | Shri. Grp. Capt. Rajesh Madikeri | Technical advisor to Officer Commanding Indian Air force | New Delhi |
| 4 | Dr. A. R. Shelar | Former Professor & Head, Dept. of Chemistry, Shivaji University, Kolhapur | Kolhapur |
| 5 | Dr. Mathew Samuel | Chief Cardiologist, Appolo Hospital, Chennai | Chennai |

| 6 | Dr. Vivek Bhave | Scientist, Bhabha Atomic Research Center Trombay, Mumbai | Mumbai |
|---|---|---|---|
| 7 | Smt. Gouri Golsangi | Scientific Assistant, Pollution Control Board, Bengaluru | Bengaluru |
| 8 | Shri. D. B. Inamadar | M. L. A.(Ex-Minister), Kittur | Neginahal |
| 9 | Shri. Shrikant Watawati | Judge, Additional Secretary, Law Department, Vidhan soudha, Bengaluru | Bengaluru |
| 10 | Shri. B. N. Patil | Chief conservator of Forest (Retired) | Belagavi |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

### For the year 2014-15

| Associations | Events | | |
|---|---|---|---|
| | **Date** | **Guest** | **Topic** |
| **Chemical Association** | 13-01-2015 | Dr A.Venkatraman Prof.of Chemistry Kalaburagi University Kalaburagi | **New Trends in Chemistry** |
| | 21-01-2015 | Dr Farhana Tahseen Taj Haveri Assistant Prof.J.N.Medical college,Belagavi | Dry Skin |
| | 02-08-2014 | **Dr. Swapna Manjarekar Desai,** Consultant Dermatologist and Cosmetologist of Belagavi | **General Awareness on Acne** |
| | 13-9-2014 | **Dr. Rajesh Powar** Plastic Surgeon, J. N. Medical. College, Belagavi | **The Fascinating world towards Plastic Surgery** |

### For the year 2013-14

| Associations | Events | | |
|---|---|---|---|
| | **Date** | **Guest** | **Topic** |
| **Chemical Association** | 26th Aug. 2013 | **Dr. R. S. Vadavi,** Dept. Of Chemistry Rani Channamma University, Belagavi | **Chemical Bonding** |
| | 5th Oct. 2013 | **Dr. Guru Basavaraj,** Dept. Of Chemistry Rani Channamma University, Belagavi | **Ammonia products** |
| | 21st Jan. 2014 | **Dr.(Smt) B. V. Badami,** Dept. Of Chemistry Karnatak University Dharwad | **UV Spectroscopy** |
| | 30th Jan. 2014 | **Dr. B. E. KumarSwamy,** Dept. of Chemistry, Kuvempu University, Shimoga | **Cyclic Voltametry and its applications in research** |

### For the year 2012-2013

| Associations | Events | | |
| --- | --- | --- | --- |
| | Date | Guest | Topic |
| **Chemical Association** | 11th Aug. 2012 | **Dr. Aravind A. Nathu** IISER, Pune | **Chemistry Everywhere** |
| | 26th Feb 2013 | **Mr. Mohmed Naheed** Engineer Classle, Chennai. | **Technology enhanced learning.** |
| | 20th March 2013 | **Dr. P. A. Patil** HoD, Dept. of Pharmacology USM, KLE IMP,Belagavi. | **Disease-Drug Doctor** |

### For the year 2011-2012

| Associations | Events | | |
| --- | --- | --- | --- |
| | Date | Guest | Topic |
| **Chemical Association** | 29th Oct 2011 | **Dr. I. M. Khazi** Dept of Chemistry, Karnatak University Dharwad | **International year of chemistry** |

### For the year 2010-2011

| Associations | Events | | |
| --- | --- | --- | --- |
| | Date | Guest | Topic |
| **Chemical Association** | 27th Sept 2010 | **Dr. N. M. Patil** Prof of Psychiatry, K. L. E. Society's J. N. Medical College, Belagavi | **Behavioral Skills and stress management** |
| | 20th April 2011 | **Dr. S. B. Patil** HoD Biochemistry, K. L. E. Society's J. N. Medical. College, Belagavi | **Nutrition in health and diseases** |

**33. List the teaching methods adopted by the faculty for different programmes.**

- ICT Based
- Charts and models
- OHP
- Study tours
- Subject CDs
- Industrial visits
- Group discussions
- Seminars
- Projects
- Demonstrations
- Learning through Experiments
- Chalk and talk

34. **How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

The department ensures with the help of the following processes its objectives that are constantly met and learning outcomes monitored:

- Result analysis
- Tests
- Continuous interaction
- Seminars
- Attendance
- Mentor system
- Publication of research papers in national/international journals
- Attending/presenting research papers in seminars and conferences
- Alumni meet

35. **Highlight the participation of students and faculty in extension activities.**

- Soil testing for formers in collaboration with Government Biocentre, Belagavi
- Water analysis for community in collaboration with Government Biocentre, Belagavi
- Swachh Bharat Abhiyan conducted on 2nd October 2014
- Moral issues awareness programme on 26-02-2014
- Road safety week was organised on 25-1-2014
- National youth day was celebrated on 12-01-2013

36. **Give details of "beyond syllabus scholarly activities" of the department.**

- Certificate courses
- As a reviewer for Inaternational Journals
- In-house seminars given by the students
- Conduct of Guest lectures
- Involvement in Research oriented Project for students
- As a Resource person
- Organizing teacher sharing programme
- Organizing/Attending/ Presenting papers in seminars/conferences/ workshops
- Minor Research Projects
- Publishing papers in national and international journals
- Industrial visits
- Participation of students in awareness programmes and rallies
- As a Judge for various competitions
- As a subject Expert

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

Department as a unit is not accredited individually. However the college as a whole is accredited and Re-Accredited by NAAC.

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

**Strengths:**
- Good results leading to ranks every year
- Introduction of innovative and need based topics in the curriculum
- Dedicated teaching and non teaching staff
- Well equipped laboratories
- Autonomous status, MRPs and Certificate course
- Wide spread network of Alumni
- Collaborations/linkages with other organizations

**Weaknesses:**
- Less number of publications
- Lack of Major Research Projects

**Opportunities:**
- Staff to undertake more research activities
- Exposure of faculty to exchange programs with other institution
- To start new Certificate Courses
- Academic and personal growth
- Summer projects to the student

**Challenges:**
- To increase collaboration with industries and other research institutions
- Extending consultancy services

**39. Future plans of the department.**
- Organization of National seminar
- To enhance Student projects

# Department of Mathematics

1. **Name of the Department & its year of establishment**
   Name of the Department        :        Mathematics
   Year of establishment        UG    -        1935
                                 PG    -        2010

2. **Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**
   - UG course (PCM, PMS, PME, MECs & MEcoS)
   - PG course
   - Certificate courses

3. **Interdisciplinary courses and departments involved**

   | Courses | Departments Involved |
   |---------|----------------------|
   | UG | 1. Physics<br>2. Computer Science<br>3. Electronics |
   | PG | 1. Computer Science<br>2. Statistics<br>3. English |

4. **Annual/ semester/choice based credit system**
   - Semester system    :    UG and PG courses
   - Annual system      :    Certificate Courses
   - CBCS               :    PG

5. **Participation of the department in the courses offered by other departments**
   - Department of Physics (Statics and Dynamics)
   - Department of BCA (Discrete Mathematics)
   - Department of Computer Science (Numerical Analysis & Differential Equation)

6. **Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)**
   **UG**

   |                       | Sanctioned | Filled |
   |-----------------------|------------|--------|
   | Professors            |            | -      |
   | Associate Professors  | 04         | 02     |
   | Asst. Professors      |            | 02     |

**PG**

|  | Sanctioned | Filled |
|---|---|---|
| Professors |  | 02 |
| Associate Professors | 03 | - |
| Asst. Professors |  | 01 |

## 7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

### YEAR 2014-15

**UG**

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|---|---|---|---|---|---|
| Smt. S.B. Angadi | M.Sc..M.Ed., M.Phil. | Associate Professor | Geometry and Graph Theory | 34 | - |
| Dr(Smt)S.N. Banasode | M.Sc. Ph.D. | Associate Professor | Graph Theory and Topology | 25 | 08 |
| Miss. S.I. Uchgaonkar | M.Sc. B.Ed. | Assistant Professor | Pure &Applied Mathematics | 01 | - |
| Miss. A.T. Desai | M.Sc. | Assistant Professor | Pure &Applied Mathematics | 01 | - |

**PG**

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D. Students guided for the last 4 years |
|---|---|---|---|---|---|
| Dr. M.S. Chaudhary | M.Sc. Ph.D. | Professor | Analysis | 40 | 07 |
| Dr.C.S. Manjarekar | M.Sc. Ph.D. | Professor | Algebra | 40 | 03 |
| Smt. S.S. Hiremath | M.Sc. B.Ed. | Assistant Professor | Pure &Applied Mathematics | 03 | - |

## 8. Percentage of classes taken by temporary faculty–programme–wise information

| Year | Percentage of classes taken | |
|---|---|---|
|  | UG | PG |
| 2014-15 | 50 | 33 |
| 2013-14 | 50 | 33 |
| 2012-13 | 50 | 33 |
| 2011-12 | 50 | 33 |
| 2010-11 | 25 | 33 |

## 9. Programme-wise Student Teacher Ratio

| Year | UG Student-Teacher Ratio | PG Student-Teacher Ratio |
|---|---|---|
| 2014-15 | 130:1 | 21:1 |
| 2013-14 | 118:1 | 26:1 |
| 2012-13 | 119:1 | 23:1 |
| 2011-12 | 122:1 | 16:1 |
| 2010-11 | 120:1 | 6:1 |

## 10. Number of academic support staff (technical) and administrative staff: sanctioned and filled
Nil

## 11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

### Minor Research Projects Funded by U.G.C

| Sl. No. | Staff | Sanctioned Year | Title of Project | Amount Sanctioned | Status |
|---|---|---|---|---|---|
| 1 | Shri. B.I. Noginhal | 2009-10 | Advanced study in General & Fuzzy Topology | ₹1,15,000.00 | Completed |
| 2 | Smt. S.B. Angadi | 2009-10 | Operation & Bioperation in Topology Spaces | ₹1,05,000.00 | Completed |
| 3 | Dr(Smt.) S.N. Banasode | 2009-10 | Recent Studies in General & Fuzzy Topology | ₹1,15,000.00 | Completed |
| | | | | **₹3,35,000.00** | |

## 12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received
Nil

## 13. Research facility / centre with
- state recognition          -    -
- national recognition       -    01
- international recognition   -    -
- institutional research centre   -    01

All the Research Activities are monitored by Research Cell of the Institution

**14.  Publications:**
* number of papers published in peer reviewed journals (national / international)          -          20
* Monographs                    -          -
* Chapter(s) in Books             -          -
* Editing Books                  -          1
* Books with ISBN numbers with details of publishers
* Real Analysis
* ISBN Number:                   -          -
* Publishers: North Maharashtra University, Jalagaon
* number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : -
* Citation Index – range / average          :          1 – 50
* SNIP                           :          Nil
* SJR                            :          Nil
* Impact factor – range / average           :          0-5
* h-index                         :          03

**15.  Details of patents and income generated**
      Nil

**16.  Areas of consultancy and income generated**
      Nil

**17.  Faculty recharging strategies**
* Organizing/attending seminars/ conferences/ workshops
* Attending Faculty Development Programmes and Faculty Improvement Programmes
* Enrichment of Knowledge by attending orientation and refresher courses
* ICT enabled teaching
* Presenting Research Papers in workshops/seminars/ conferences
* Publishing Research Papers in National/ International Peer Reviewed Journals
* NET / SLET coaching
* Guidance to Ph.D. students
* Participation of faculty as BoS members in designing the syllabi of autonomous colleges and Parent University

**18. Student projects**

- **percentage of students who have done in-house projects including inter-departmental**

Students' Projects: Beyond the Curriculum (UG): 55 projects
Students' Projects: Beyond the Curriculum (PG): 15 projects
Students' Projects: Within the Curriculum (PG): 06 projects

- **percentage of students doing projects in collaboration with industries / institutes**
  Nil

**19. Awards / recognitions received at the national and international level by**

- **Faculty –** Peer reviewer, Expert for National level Interview Board, Member of Organizing Committee of National Conference, Associate Editor of Bulletin of the Marathwada Mathematical Society, Acting as a Resource Persons/Chairpersons at International/ National Conference
- **Doctoral / post doctoral fellows –** Nil
- **Students :**
- Mr. Vaibhav Sainaikar participated in National Level Tabala Competition at All India Inter University Youth Festival at Kurukshatra, Hariyan from 18-02-2014 to 25 – 02 -2014.
- Mr. Prasad Sarwate won Quiz Competition programme, "Sports Quiz", conducted by Synergy, anchored by **Quiz Master Siddarth Basu**
- Mr. Sushil Kataria, Mr. Prasad Sarwate and Mr. Sripad Joshi secured 6th Place in Quiz conducted by IIT, Bombay.
- Miss. Manikya Patil & Miss. Pratibha Bandigani attended RD Camp at New Delhi

**University Ranks**

UG

| SL. No. | Name | University Rank | Year | University |
|---|---|---|---|---|
| 1 | Miss. Sushma Desaimath | 1st | 2014 | RCU |
| 2 | Miss. Marita Carvalo | 9th | 2014 | RCU |
| 3 | Mr.Akash Goravar | 4th | 2013 | RCU |
| 4 | Miss.Gousia Deshnoor | 8th | 2013 | RCU |
| 5 | Miss.Nahen Akki | 4th | 2012 | KUD |
| 6 | Miss.Bharati Hukkeri | 6th | 2011 | KUD |
| 7 | Miss. Tejaswini B Dadanaikar | 10th | 2010 | KUD |

**PG**

| Sl. No. | Name | University Rank | Year | University |
|---|---|---|---|---|
| 1. | Miss. Sana Uchgaonkar | 2<sup>nd</sup> | 2012 | R.C.U |
| 2. | Miss. Sana Mevegar | 3<sup>rd</sup> | 2012 | R.C.U |

## University Blues

| Sl. No. | | Name Of the students | Year | Events |
|---|---|---|---|---|
| 1 | Shri. | Vinayak A Nayak | 2013-14 | Hockey |
| 2 | Shri. | Kartik Kulkarni | 2013-14 | Chess |
| 3 | Miss. | Amila Mascarenhas | 2013-14 | Basketball, Netball |
| 4 | Miss. | Bhakti Kamat | 2013-14 | Hockey |
| 5 | Shri. | Kunal Aptekar | 2013-14 | Netball |
| 6 | Miss. | Tanzil | 2013-14 | Hockey |
| 7 | Shri. | Dilnawaz Badami | 2013-14 | Basketball |
| 8 | Miss. | Amila Mascarenhas | 2012-13 | Basket Ball |
| 9 | Shri. | Pranav Kulkarni | 2012-13 | Foot Ball |
| 10 | Shri. | Dilnawaz Badami | 2012-13 | Basket Ball |
| 11 | Miss. | Divya Inamdar | 2012-13 | Hockey |
| 12 | Miss. | Tanzil Gokakkar | 2012-13 | Hockey |
| 13 | Miss. | Bhakti Kamat | 2012-13 | Hockey |
| 14 | Shri. | Kirankumar Patil | 2012-13 | Basket Ball |
| 15 | Shri. | Dilnawaz Badami | 2012-13 | Net Ball |
| 16 | Miss. | Amila Mascarenhas | 2012-13 | Basket Ball |
| 17 | Shri. | Pranav Kulkarni | 2012-13 | Foot Ball |
| 18 | Miss. | Amila Mascarenhas | 2012-13 | Net Ball |
| 19 | Miss. | Amila Mascarenhas | 2011-12 | Basket Ball |
| 20 | Miss. | Priya Patil | 2011-12 | Shuttle Badminton |
| 21 | Miss. | Lakshmi Khilare | 2011-12 | Shuttle Badminton |
| 22 | Miss. | Amila Mascarenhas | 2011-12 | Basket Ball |
| 23 | Shri. | Kiran Kumar G Patil | 2010-11 | Basket Ball |
| 24 | Miss. | Akshata Jakkannavar | 2010-11 | Basket Ball |

## 20. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.

| Title and Date | Agency | Guest speaker | Topic |
|---|---|---|---|
| Workshop on Curriculum 01-07-2011 | Self funding | Dr. T. Venkatesh Rani Channamma University Belagavi | B.Sc. Syllabus |
| Workshop on NET/SLET Coaching 1st to 10th October 2013 | Self funding | 1. Dr. S.S.Bhoosnurmath Rtd Professor, Department of Mathematics, Karnatak University, Dharward | Complex Analysis and Calculus of Variation |
| | | 2. Dr C.S.Bagewadi Department of Mathematics, Kuvempu University, Shankargatta | Topology |
| | | 3. Prof S.R.Chaudhari Department of Mathematics, North Maharastra University, Jalgaon | Algebra |
| | | 4. Shri. Vasant M. Gaikwad Department of Mathematics, Shri. Chatrapathi Shivaji College, Omerga | Real Analysis |
| | | 5. Dr. L.N.Katkar Department of Mathematics, Shivaji University, Kolhapur | Real Analysis |
| | | 6. Dr. B.N.Waphare Department of Mathematics, Pune University, Pune | Discrete Mathematics |
| | | 7. Dr. M.T.Gophane Department of Mathematics, Shivaji University, Kolhapur | Algebra |
| | | 8. Dr. K.D.Kucche Department of Mathematics, Shivaji University, Kolhapur | Differential Equation |
| | | 9. Shri. Santosh V. Babar Department of Mathematics, Dr. Ghali College, Gadhinglaj | Complex Analysis |

| | | | |
|---|---|---|---|
| | | 10. Dr. M.S.Chaudhary<br>Department of Mathematics,<br>R.L.Science Institute, Belagavi | Integral Calculus |
| | | 11. Dr. C.S.Manjarekar<br>Department of Mathematics,<br>R.L.Science Institute, Belagavi | Algebra |
| | | 12. Dr.(Smt) S.N.Banasode<br>Department of Mathematics,<br>R.L.Science Institute, Belagavi | Topology |
| National Conference on Recent Analysis and Applications in Discrete Mathematics | UGC | 1. Dr. Vittal Rao R,<br>Former Chairman, Department of Mathematics<br>IISc and Consultant, DESE, IISc, Bengaluru | Rating, Ranking and Mathematics |
| | | 2. Smt. Usha Shastri<br>Senior Scientist – G, ISRO, Bengaluru | Application of Mathematics in Launching of the Sattelite |
| | | 3. Dr. S.S.Bhoosnurmath<br>Honorary Professor and PI-DST Project, Department of Mathematics, Karnataka University, Dharward | Recent Advances in Complex Analysis |
| | | 4. Prof. S. K. Nimbhorkar<br>Department of Mathematics, Dr.Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra | Graphs on Algebraic Structure |
| | | 5. Dr. B.N.Waphare<br>University of Pune, Pune | Arrows Impossibility Theorem |
| | | 6. Dr. D.T.Shirke<br>Professor ,Department of Statistics, Shivaji University, Kolhapur | Applications of Mathematics in Finance |
| | | 7. Dr Kishore Kuchhe<br>Department of Mathematics, Shivaji University, Kolhapur | Semi Group Theory & Abstract Cauchy Problem |

## 21. Student profile course-wise:

| Course | Year | Applications received | Selected Male | Selected Female | Pass Percentage Male | Pass Percentage Female |
|---|---|---|---|---|---|---|
| B.Sc. | 2014-15 | 197*** | 62 | 135 | 73.21 | 88.72 |
| | 2013-14 | 169** | 65 | 104 | 79.37 | 86.54 |
| | 2012-13 | 141* | 53 | 88 | 98.11 | 96.59 |
| | 2011-12 | 116 | 46 | 70 | 89.13 | 94.28 |
| | 2010-11 | 155 | 61 | 94 | 82.69 | 95.35 |

*Results of V Sem only
**Results of III Sem only
***Results of I Sem only

| Course | Year | Applications received | Selected Male | Selected Female | Pass Percentage Male | Pass Percentage Female |
|---|---|---|---|---|---|---|
| M.Sc. | 2014-15 | 24* | 05 | 19 | 40 | 72.22 |
| | 2013-14 | 40** | 17 | 23 | 91.66 | 100 |
| | 2012-13 | 40 | 12 | 28 | 92.31 | 91.30 |
| | 2011-12 | 30 | 15 | 15 | 80 | 93.33 |
| | 2010-11 | 18 | 08 | 10 | 100 | 100 |

*Results of I Sem only
**Results of III Sem only

## 22. Diversity of Students

| Name of the Course | Year | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|---|---|---|---|---|---|
| B.Sc. | 2014-15 | 17.53 | 96.67 | 3.33 | - |
| | 2013-14 | 34.21 | 100 | - | - |
| | 2012-13 | 32 | 100 | - | - |
| | 2011-12 | 38 | 99 | 1 | - |
| | 2010-11 | 34 | 100 | - | - |

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Defense      -      01
SLET/ NET      -      04
GATE      -      01

## 24. Student progression

| Student Progression | Percentage against enrolled | | | | |
|---|---|---|---|---|---|
| | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| UG to PG | - | 25.80 | 25.46 | 39.41 | 29.35 |
| PG to M.Phil. | - | - | - | - | - |
| PG to Ph.D. | - | - | 04 | - | - |
| Ph.D. to Post-Doctorate | - | - | - | - | - |
| Employed<br>• Campus selection | - | 9.67 | 8.07 | 16.66 | 0.92 |
| • Other than campus recruitment | 36.11 | 33.33 | 72.22 | - | - |
| Entrepreneurs (Business) | 1. Yogita S Joshi, Proprietor of Medical shop, Belagavi.<br>2. Rudrappa Godgeri, Tata Solar Agencies, Belagavi. | | | | |

## 25. Diversity of staff

| Percentage of faculty who are graduates | UG 2014-15 | PG 2014-15 |
|---|---|---|
| Of the parent University(parent University came into existence from 27-07-2010) | 25 | - |
| from other university within the State | 75 | 33.33 |
| from other university from other States | - | 66.67 |

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.
Nil

## 27. Present details about infrastructural facilities
a) Library
Departmental Library Books
UG   - 353
PG   - 50
Dissertations(MRP)   - 03
Dissertations(M.Phil.)   - 01
Central library Books   - 6226
     Journals   - 04
     Magazines   - 05
     Subject CDs   - 05
     Ph.D. Thesis   - 01
b) Internet facilities for staff and students   - Yes
c) Total number of class rooms   - 07
d) Class rooms with ICT facility   - 07
e) Students' laboratories   - -
f) Research laboratories   - 01

**28. Number of students of the department getting financial assistance from College.**

| financial assistance | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
|---|---|---|---|---|---|
| R.L.S.I. Nidhi | 10 | 10 | 19 | 16 | 12 |
| Endowment Cash Prizes Scholarship from Mathematics faculty | 02 | 02 | 02 | 02 | 02 |
| Student aid fund | - | - | 31 | 30 | 15 |
| K.S.S.W | - | - | 31 | 30 | 15 |
| Endowment Cash Prize | - | 11 | 11 | 10 | 08 |
| Karnataka Science and Technology | - | 07 | - | 01 | 02 |
| Post-Matric Scholarship to BC/BT students | - | - | 26 | 46 | 14 |
| Post-Matric Scholarship to SC/ST students | - | 13 | 19 | 30 | 11 |
| Physically Handicapped | - | - | 01 | - | 01 |
| Dr. M.S.Sheshgiri | - | - | 02 | 01 | - |
| Sanch Honnamma | 09 | - | 10 | 09 | - |
| City Corporation | - | 01 | 01 | 01 | 01 |
| Encouragement Scholarship to Minority Students | 05 | 16 | 04 | 10 | 05 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes. Due to changes in the demands of Industries/Society/higher educational organization the syllabus at UG needs to be upgraded. For this opinions of all the concerned stake holders is collected and necessary changes are incorporated in the new syllabus.

**30. Does the department obtain feedback from**

**a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes, during regular departmental meetings of the staff members, issues like curriculum and teaching-learning and evaluation are discussed. These discussions are considered while reviewing the syllabus.

**b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Yes, this feedback is analysed by the HOD in consultation with the senior colleagues of the department and accordingly action is taken.

**c. alumni and employers on the programmes and what is the response of the department to the same?**

Yes, during the regular alumni meet, their feedback is obtained. Discussions are also held with potential employers and their views are considered positively.

**31. List the distinguished alumni of the department (maximum 10)**

| Sl. No. | Name of the Alumni | Prominent position |
|---|---|---|
| 1 | Smt. Usha Shastri | Senior Scientist-G, ISRO Bengaluru |
| 2 | Dr. Prashant Latte | Senior Principle Investigator BIOCON , Bengaluru |
| 3 | Smt. Vidya Deshpande | MD and Chairperson for Renuka Group of Sugars Munnolli |
| 4 | Smt.Asha Bhairannvar | Deputy Secretary Loksabha,New Delhi |
| 5 | Dr. S.S.Bhoosnurmath | Rtd Professor of Mathematics Karnatak University Dharwad |
| 6 | Shri.S.L.Kosti | Rtd. Chief Executive Engineer, Hubli - Dharwad Muncipal corporation Hubli |
| 7 | Shri. Shridhar K. Uppin | Industrialist Positron Engineering Corporation At plot no.42 Machhe Industrial Area Machhe Belagavi. |
| 8 | Shri.Siddanaik.D.Naikar | Superintend Engineer, Irrigation Department, Belagavi |
| 9 | Shri S.A.Gadag | Executive Officer, SIEMENS, Bengaluru |
| 10 | Shri. C.S.Burji | Chief Engineer(Rtd), PWD, Belagavi |
| 11 | Shri. V.B.Jawor | Superintend Engineer(Rtd), Belagavi |

**32. Give details of student enrichment programmes (special lectures / workshops / seminars) with external experts.**

| Year | Resource Person | Topic |
|---|---|---|
| 2010-11 | Prof. R H Dhareshwar, Gogte College of Commerce, Belagavi | Typical Problems on Vedic Mathematics |
| | Dr. H V Kumbhojkar, Rtd. Prof. of Shivaji University, Kolhapur | Foundation of Mathematics |
| | Dr(Smt) C. P. Halakatti, Dept. of Mathematics, Rani Channamma University, Belagavi | Topology and its applications |
| | Dr. T Venkatesh, Rani Channamma University, Belagavi | Avenues of Higher Mathematics |
| 2011-12 | Prof Mahadeva Nayak, Bengaluru University, Bengaluru | Memorial lecture on Ramanujan |
| | Prof S S Benchalli, Chairman, Department of Mathematics Karnatak University, Dharwad | Fuzzy logic and Fuzzy sets |
| 2012-13 | Dr. P A Katarki, Prof. of Statistics, University of Agricultural Sciences, Dharwad | Experimental Designs |
| | Prof B.T.Venkatachalam, IISc, Bengaluru | Number Theory |
| 2013-14 | Prof. Sushant T Joshi, Dean (Administration), Jain College of MCA & MBA, Belagavi | Research Methodology |
| | Dr. M S Chaudhary, Rtd. Prof. Shivaji University, Kolhapur | Complex Analysis |
| | Shri Ribzon Kumar, Osmaniya University, AP | Higher Ordered Derivatives |

| | Shri Ramakrishna, Nagarjun University, AP | Limits and Continuity |
|---|---|---|
| 2014-15 | Prof.L. Radhakrishna Rtd.Prof.Department of Mathematics Bengaluru University, Bengaluru | Definition of 21$^{st}$ century Mathematics |
| | Dr. R.V.Kulkarni Director, Cyber Institute, Kolhapur. | Data Mining |

**33. List the teaching methods adopted by the faculty for different programmes.**

- Problem solving
- Projects
- Use of smart boards
- ICT Based teaching
- Chalk and talk method
- Seminars
- Home/class assignments
- Explaining biography of Mathematicians
- Use of CDs
- Group discussion
- Guest lectures
- Topper as a teacher
- Explaining by giving real life example

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

The department ensures with the help of the following processes its objectives that are constantly met and learning outcomes monitored:

- Result analysis
- Internal tests
- Continuous interaction
- Participation/ presentation of Research Papers in International/ National Conferences/Seminars/Workshops
- Seminars
- Mentor system
- Celebration of Birth Anniversary of Srinivas Ramanujan
- Projects
- Teaching plan and teaching schedule
- Science Exhibition
- Publishing Research Papers in National and International Journals
- Parent – Teacher/Alumni meet

35. **Highlight the participation of students and faculty in extension activities.**
- Coaching the Orphans at the Orphanage
- Celebration of National Festivals
- Participation in a rally on Voting Awareness
- Participation in Road safety week
- Awareness about Human Rights
- Rally on International Non Violence day
- Participation and oath taking in Swachh Bharat Abhiyan Programme
- Celebration and oath taking on Rashtriya Ekata Diwas

36. **Give details of "beyond syllabus scholarly activities" of the department.**
- Faculty guiding Ph.D. students
- Faculty involvement in MRPs
- Faculty guiding PG students to engage UG classes
- Certificate courses
- In-house seminars
- Guest lectures
- Taking up Research Projects
- Faculty imparting knowledge as Resource persons about the teachers-training programmes
- Faculty attending various competitions as judges
- Organizing/Attending/ Presenting papers in seminars/conferences/ workshops
- Publishing papers in national and international journals
- SLET/NET coaching
- Teaching inmates at orphanage by regularly visiting them
- Imparting knowledge of Vedic Mathematics
- Peer reviewer, Expert for National level Interview Board, Member of Organizing Committee of National Conference, Associate Editor of Bulletin of the Marathwada Mathematical Society

37. **State whether the programme/ department is accredited/ graded by other agencies. Give details.**

Our department as a unit is not accrediting. However our college as a whole accrediting and reaccredited by NAAC

38. **Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**
**Strengths**
- Provision for pursuing higher education
- Recognition of faculty as guides for Ph.D. programme

- NET/SLET coaching and other competitive exams
- Research publications
- Good results and securing ranks to the university

**Weaknesses**
- No collaboration with Industries

**Opportunities**
- To pursue Ph.D. programme
- Publishing books/ Research papers
- Imparting methodologies of research to research aspirants

**Challenges**
- To exploit Fuzzy logic in various fields
- To motivate students to spread the knowledge of Mathematics and its applications

**39. Future plans of the department.**
- To take up a Major Research Project
- To establish collaboration / Linkages with Industries and other institutes
- To conduct National Seminar in Mathematics

# Department of Statistics

1. **Name of the Department & its year of establishment**

   Name of the Department : Statistics
   Year of establishment **:** **1935**

2. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

   **UG Programme** **: UG – PMS, EcoMS**
   **Certificate courses** **: Quantitative Techniques for aptitude test**
   **Research Methodology (Statistical computing)**

3. **Interdisciplinary courses and departments involved**

   **Interdisciplinary courses** **:** B.Sc
   **Departments involved** : Department of Mathematics
   Department of Computer Science
   Department of Zoology
   Department of Biotechnology
   Department of Computer Applications

4. **Annual/ semester/choice based credit system**

   **Semester system** **-** **UG courses**
   **Annual system** **-** **Certificate courses**

5. **Participation of the department in the courses offered by other departments**

| Course | Department | Topics included |
|--------|-----------|-----------------|
| B.Sc. | Zoology | Bio-Statistics |
| | Mathematics | Inference |
| | Economics | Econometrics and Research methodology |
| | Commerce | Basic Statistics |
| | Computer science | Operations Research |
| | Biotechnology | Bio-Statistics |
| M.Sc. | Physics | Inference |
| | Mathematics | Inference |

**6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors)**

|  | Sanctioned | Filled |
|---|---|---|
| Professors |  | - |
| Associate professors | 02 | 02 |
| Asst. professors |  | - |

**7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

### YEAR 2014-15

| Name | Qualification | Designation | Specialization | No. of Years of Experience |
|---|---|---|---|---|
| Shri. F.V. Kallanagoudar | M.Sc. M.Phil. | Associate Professor | Operations Research, Econometrics, Demography | 36 Yrs. |
| Smt.S.S.Chobari | M.Sc. | Associate Professor | Operations Research, Econometrics, Demography | 29 Yrs. |

**8. Percentage of classes taken by temporary faculty – programme-wise information**

Nil

**9. Programme-wise Student Teacher Ratio**

| Year | Student-Teacher Ratio |
|---|---|
| 2014-15 | 28:1 |
| 2013-14 | 25:1 |
| 2012-13 | 30:1 |
| 2011-12 | 32:1 |
| 2010-11 | 27:1 |

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**

**Nil**

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

| Name of the faculty | Name of the project | Amount sanctioned | Funding Agency | Status |
|---|---|---|---|---|
| Smt. S.S. Chobari | "Statistical Analysis of Socio-Economic and Health conductions of Senior citizens of Belagavi City" | 1,05,000/- | UGC | Completed |

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

       **NIL**

**13. Research facility / centre with**
- state recognition            -
- national recognition       -
- international recognition   -
- institutional research centre  - 01

       MRP proposals are scrutinized by Research Cell of the college and then submitted to UGC.

**14. Publications:**

a. Number of papers published in peer reviewed journals (national / international)       : **one (International Journal)**
b. Monographs               : -
c. Chapter(s) in Books       : -
**d.** Editing Books           : -
e. Books with ISBN numbers with details of publishers   -
f. number listed in International Database (For *e.g*. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : -
g. Citation Index – range / average   : 5.16
h. SNIP                  : -
i. SJR                   : -
j. Impact factor – range / average   : 2.972
k. h-index           : **Two articles published in News papers**

**15. Details of patents and income generated**

    **NIL**

**16. Areas of consultancy and income generated**

    **Area of Consultancy:**
- Data analysis for Research scholars
- Training to newly appointed enumerators of District Statistical Office, Government of Karnataka
- Assistance to Government and other Departments in Social Organization: Sharing of knowledge for conduct of Survey on emerging issues

**Income generated:** Honorary

## 17. Faculty recharging strategies

- Attending Faculty Development Programmes
- Attending National Seminars/Conferences / Workshops
- Visit to Industry/Conduct of Survey/Quiz
- Attending Orientation / Refresher Courses
- Taking up Minor Research Projects
- Participation of faculty in the activities of National Sample Survey, Government of India
- Faculty involvement in the activities of District Statistical office, Government of Karnataka
- Resource person for training programs
- Faculty participation in designing curriculum for PG course of K.L.E. University in Bio-Statistics.

## 18. Student projects

- percentage of students who have done in-house projects including inter-departmental – 45%
- percentage of students doing projects in collaboration with industries / institutes – **Nil**

## 19. Awards / recognitions received at the national and international level by

- Faculty –
- Doctoral / post doctoral fellows –
- Students
  - Mr. Prasad Sarwate got Rs 13,000/- cash prize in Quiz programme, "Sports Quiz", conducted by Synergy, anchored by Quiz Master Siddarth Basu
  - Mr. Sripad Joshi, Mr. Prasad Sarwate and Mr. Sushil Kataria secured 6th Place in Quiz conducted by IIT, Bombay
  - Miss.Manikya Patil Attended RD parade at New Delhi
  - Miss. Divya Inamdar University Blue in Hockey
  - Mr. Kunal Aptekar University Blue in Basket Ball

## 20. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

**Nil**

## 21. Student profile course-wise:

| Name of the Course | Year | Applications received | Selected | | Pass percentage | |
|---|---|---|---|---|---|---|
| | | | Male | Female | Male | Female |
| B.Sc. | 2014-15 | 25 | 15 | 10 | 29.17 | 62.5 |
| | 2013-14 | 16 | 2 | 14 | 100 | 85.7 |
| | 2012-13 | 21 | 8 | 13 | 80 | 100 |
| | 2011-12 | 24 | 10 | 14 | 100 | 100 |
| | 2010-11 | 27 | 9 | 18 | 100 | 100 |

## 22. Diversity of Students

| Name of the Course | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|---|---|---|---|---|
| B.Sc. | 9.1 | 98.2 | 1.8 | - |

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?
NIL

## 24. Student progression

| Student progression | Percentage against enrolled |
|---|---|
| UG to PG | 30 |
| PG to M.Phil. | - |
| PG to Ph.D. | - |
| Ph.D. to Post-Doctoral | - |
| Employed • Campus selection • Other than campus selection | 3 13 |
| Entrepreneurs | - |

## 25. Diversity of staff

| Percentage of faculty who are graduates | |
|---|---|
| of the parent university (parent University came into existence from 27-07-2010) | - |
| from other university within the State | 100 |
| from other university from other States | - |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

   NIL

**27. Present details about infrastructural facilities**

   **a.** Library:
   | | |
   |---|---|
   | Departmental Library books | - **70** |
   | Dissertation /MRP | - 02 |
   | Subject CDs | - 04 |
   | Central Library Books | - **785** |

   b. Internet facilities for staff and students  - **Yes**
   c. Total number of class rooms  - **03**
   d. Class rooms with ICT facility  - **01**
   e. Students' laboratories  - **01**
   f. Research laboratories  - **01**

**28. Number of students of the department getting financial assistance from College.**

   Number of students:
   | | | |
   |---|---|---|
   | R. L. S.I. Nidhi | : | 03 |
   | Govt. Scholarship | : | 13 |
   | Student Aid fund | : | 03 |
   | Endowment cash prize | : | 01 |
   | KSSW | : | 03 |
   | UGC Scholarship | : | 01 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

   Yes, in the light of changing needs of the society and to make students employable our department made assessment by collecting the suggestions from the students and the requirement of the companies and the level of competency required to face the competitive examination, the Department has introduced Certificate courses.

**30. Does the department obtain feedback from**
   - faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
     Yes, departmental meetings are conducted to discuss and frame the syllabus. Then the draft syllabus is discussed at length in the BOS and approval is taken from Academic council and Governing body.
   - students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?
     Yes, feedback is taken from the students on staff and on teaching learning evaluation and curriculum by the management. After

analyzing the feedback and discussing the short comings with the staff in the departmental meeting suggestions are given for the improvement and corrective measures are taken.

- alumni and employers on the programmes and what is the response of the department to the same?
  Yes, suggestions are being obtained on the curriculum through alumni meeting and then the suggestions are discussed in the departmental meeting and recommended to the BoS. One of the alumni is a member of BoS.

**31. List the distinguished alumni of the department (maximum 10)**

| Sl. No. | Name of the Alumni | Prominent position |
|---|---|---|
| 1 | Smt. Usha Shastri | Senior Scientist, ISRO Bengaluru |
| 2 | Smt. Asha Bhairannvar | Deputy Secretary Loksabha,New Delhi |
| 3 | Shri N.S. Chougula | Chief planning Officer Zilla Panchayat Belagavi |
| 4 | Dr. Kadi A.S | Former Registrar for Evaluation RCU,Belagavi |
| 5 | Shri. M.G. Hiremath | Joint Commissioner Commercial Tax Office, Hubli |
| 6 | Shri. M.S. Rotti | Dist Social Welfare Officer, Belgavi |
| 7 | Shri. G.S. Hiremath | National Sample Servey Organisation Belagavi |
| 8 | Mr. Prakash Kadkol | Principal, BBA College Belagavi |
| 9 | Shri. A.K. Joshi | Former Principal, Gogate College, Belagavi |
| 10 | Prof.(Smt) V.S. Hiremath | Associate Prof,P.C. Jabin Sc. College, Hubli |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| Year | Name of the Guest Speaker | Topic |
|---|---|---|
| 2010-11 | Prof. R H Dhareshwar, Gogte College of Commerce, Belagavi | Typical Problems on Vedic Mathematics |
| 2011-12 | Shri. N.S.Chougla Chief Planning officer Zilla Panchayat, Belaum | Celebration of World Statistics Day |
| | Shri. A.D. Doddamani District Statistical Officer, Belagavi | |
| 2012-13 | Dr P.A. Katarki, Prof. of Statistics, University of Agricultural Science, Dharwad | Experimental Designs |
| 2013-14 | Dr. S.N.Hegde Principal JSS College Dharward. | International Year of Statistics |
| | Prof. Sushant T Joshi, Dean (Administration), Jain College of MCA & MBA, Belagavi | Research Methodology |
| | Shri. C.R.Jambagi ISS Rtd. Asst. Director NSSO Hubli, Govt . of India | Utilisation of Data in various Fields |

| 2014-15 | Dr. R.V.Kulkarni<br>Director, Cyber Institute, Kolhapur | Data Mining |
| | Shri. G.H. Divator<br>Statistical officer, Belgavi | Designing<br>Questionnaires |

**33. List the teaching methods adopted by the faculty for different programmes.**
- Seminars
- Group Discussion
- Remedial Coaching /Guest Lectures
- Project work
- Experimental method
- Chalk and Talk Method
- Make use of You tube/Khan Academy web site
- C D's and software's
- Designing questionnaires and schedules
- Conduct of survey
- Solving question papers
- Discussion and Display of best answer paper of a test.
- Recap of Lecture by students

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**
- Continuous Internal Assessment
- Class -room Interaction
- Mentor System
- Semester end examination results
- Seminars /Quiz /Projects/Guest Lectures
- Assignments
- Alumni meet/Parent teacher meet
- Publication of Research papers
- Attending/presenting Research papers in seminars and conference

**35. Highlight the participation of students and faculty in extension activities.**
- Awareness program on Adult Franchise
- Women Empowerment activities

**36. Give details of "beyond syllabus scholarly activities" of the department.**
- Certificate course
- Organizing National level /State level Workshop

- Discussion and display of Paper Clippings and admission notification of Institute of National and International importance such as Indian Statistical Institute Kolkata and International Institute of population studies Mumbai, etc.
- Projects/Seminars/Group Discussion/Quiz
- Taking up Survey
- Visit to Industries

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

Department as a unit is not accredited individually. However the college as a whole is accredited and re-accredited by NAAC.

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**
**Strengths**
- Team work culture
- Excellent Results
- Mentor System
- Developing problem solving and policy/ decision making skills

**Weaknesses**
- Less strength of students
- Less awareness of importance of subject

**Opportunities**
- Establishing linkages with statistical offices
- Motivating Students to Participate in Extracurricular activities
- To conduct coaching classes for competitive examinations

**Challenges**
- Attracting the students for UG course
- Creating awareness about the subject and its wide scope among the students

**39. Future plans of the department.**
- Organizing National level seminar

# Department of Botany

1. **Name of the Department & its year of establishment**
   Name of the Department        : Botany
   Year of establishment         : 1935

2. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**
   **Names of Programmes**        :    UG- CBZ and   CBBt
   **Certificate Courses offered**   :    Mushroom Cultivation
                                          Horticulture Practices

3. **Interdisciplinary courses and departments involved**
   **Interdisciplinary courses**   :    B.Sc
   **Departments involved**        :    Department Biotechnology
                                        Department of Chemistry
                                        Department of Zoology

4. **Annual/ semester/choice based credit system**
   **Semester system**            :    UG
   **Annual System**              :    Certificate courses

5. **Participation of the department in the courses offered by other departments**

   | Department | Topics covered |
   |---|---|
   | Department of Chemistry | Nucleic acids and Protein synthesis |
   | Department of Biotechnology | Part of Genetics |
   | Department of Zoology | Part of Cytology |

6. **Number of teaching posts sanctioned and filled (Professors/ Associate Professors/ Asst. Professors)**

   |  | Sanctioned | Filled |
   |---|---|---|
   | **Professors** |  | - |
   | **Associate Professors** | 04 | 02 |
   | **Asst. Professors** |  | 02 |

7. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

   | Name | Qualification | Designation | Specialization | No. of years of experience |
   |---|---|---|---|---|
   | Dr. P. B. Bendigeri | M.Sc. Ph.D. | Asso. Prof. | General Botany | 28 Yrs |
   | Dr.(Smt) J. S. Kawalekar | M.Sc. Ph.D. | Asso. Prof. | Biotechnology | 17 Yrs |
   | Shri. V. S. Vastrad | M.Sc.M.Phil. | Asst. Prof. | Cytogenetics | 34 Yrs |
   | Smt. S. R. Mane | M.Sc.M.Phil. | Asst. Prof. | Cytogenetics | 15 Yrs |

**8. Percentage of classes taken by temporary faculty – programme-wise information**

| Academic Year | Percentages of classes taken by temporary faculty |
|---|---|
| 2014-15 | 50 |
| 2013-14 | 50 |
| 2012-13 | 50 |
| 2011-12 | 25 |
| 2010-11 | 25 |

**9. Programme-wise Student Teacher Ratio**

| Academic Year | Student : Teacher Ratio |
|---|---|
| 2014-15 | 50:1 |
| 2013-14 | 41:1 |
| 2012-13 | 36:1 |
| 2011-12 | 32:1 |
| 2010-11 | 29:1 |

**10. Number of academic support staff (technical) and administrative staff: sanctioned and filled**

**Nil**

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

| Name of the faculty | Name of the project | Amount sanctioned | Funding agency | Status |
|---|---|---|---|---|
| Dr P B Bendigeri | Evaluation of Water and Phytodiversity of some Historical Wells of Belagavi City, Karnataka" | ₹1,50,000/- | UGC | Completed in 2014 |
| Dr.(Smt) J S Kawalekar | "Microsporogenesis in *Sechium edule* (Jacq.) Sw. –A Histochemical Studies" | ₹40,000/- | UGC | Completed in 2010 |
| Dr.(Smt) J S Kawalekar | "Screening of Phytochemicals in the floral organs of *Pongamia pinnata*"Linn. | ₹1,85,000/- | UGC | Ongoing |
| Miss M S Bagi | "Survey of Noise Pollution Levels in Traffic Zones of Belagavi City" | ₹1,10,000/- | UGC | Ongoing |
| **Total Amount Sanctioned** | | **₹4,85,000/-** | | |

**12.** **Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

| Name of the Students | Class | Name of the project | Amount sanctioned | Funding Agency | Status |
|---|---|---|---|---|---|
| Miss Vijaylakshmi Naik<br><br>Miss Varsha Patil | V Sem. | "Preliminary Phytochemical Investigations on Roots of *Nerium oleander,* Linn." | ₹30,000/- | VGST | Completed in 2012 |

**13.** **Research facility / centre with**
- **state recognition**             :    -
- **national recognition**        :    -
- **international recognition**    :    -
- **institutional research centre**  :    **01**

**14.** **Publications:**
- ∗ **number of papers published in peer reviewed journals (national / international)**
- ∗ **National**                      :    **02**
- ∗ **International**              :    **06**
- ∗ **Monographs**                :    -
- ∗ **Chapter(s) in Books**       :    -
- ∗ **Editing Books**             :    -
- ∗ **Books with ISBN numbers with details of publishers : -**
- ∗ **number listed in International Database (For *e.g*. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**          :   -
- ∗ **Citation Index**    **– range**     :    **01**
  -                      **– average**   :    **01**
- ∗ **SNIP**                      :    -
- ∗ **SJR**                       :    -
- ∗ **Impact factor**    **– range**    :    **0.041 to 5.099**
  -                      **– average**   :    **2.57**
- ∗ **h-index**                   :    -

**15.** **Details of patents and income generated**   :    -

**16.  Areas of consultancy and income generated**

**Areas of consultancy :** Authentication of plants
Technical consultants in Mushroom cultivation
**Income generated   :** Honorary

**17.  Faculty recharging strategies**
- Organizing and presenting papers in Seminars / Conferences/ Workshops.
- Attending Faculty Development Programmes
- Publishing Research Papers in Peer reviewed National / International journals.
- Inviting eminent persons for guest lectures and interacting with them
- Survey and documentation of medicinal plants
- Participating as Resource persons / Chairpersons / Reporters in the Seminars/ Workshops and in the programmes organized by other organizations.
- Browsing educational websites to prepare ICT enabled teaching
- Visiting Research centers /institutes of higher education / industries to update the knowledge
- By study tours / field trips / industrial visits
- Involving and guiding students to carry out Research projects
- Providing excellent ambience for teaching and learning
- Procuring advanced equipments
- Judges for various competitions

**18.  Student projects**
- percentage of students who have done in-house projects including inter-departmental

| Year | No. of projects | No. of students involved | Percentage of students involved |
|------|------|------|------|
| 2013-14 | 20 | 76 | 46 |
| 2012-13 | 21 | 66 | 40 |
| 2011-12 | 06 | 30 | 22 |
| 2010-11 | 05 | 25 | 21 |

- **percentage of students doing projects in collaboration with industries / institutes**

| Year | No of Projects | No of students involved | Percentage of students involved | Industry/ Institute |
|------|------|------|------|------|
| 2011-12 | 01 | 02 | 1.56 | **K L E University's Dr Prabhakar Kore, Basic Science Research Centre, Belagavi** |

19. **Awards / recognitions received at the national and international level by**
   - **Faculty**                 :        **Reviewer for Journal**
   - **Doctoral / post doctoral fellows**   :        **-**
   - **Students**                 :
   - Miss Jainbi Mulla NCC Cadet –attended RD parade at New Delhi and won **three Gold Medals** & **one Silver Medal** in All India Competition (NCC).
   - Miss Manorama Pawar – secured **5$^{th}$ Rank**, Karnatak University Dharwad.
   - Miss Nandita Haldankar- secured **9$^{th}$ Rank**, Karnatak University Dharwad.
   - Miss Poonam P. Netalkar is awarded **Wr.D.C. Pavate Jubilee Celebration scholarship** for being the Topper in B.Sc. and joining M.Sc.in Biochemistry at Karnatak University Dharwad during May 2010
   - **Miss Varsha Patil and Vijaylakhsmi Naik** of B.Sc. VI Semester published research paper on "Preliminary Phytochemical Investigations on roots of *Nerium oleander*. Linn" in **International Journal of Pharmacognosy and Phytochemical Research 2012;4(3); 134-138**
   - Miss Juhi Singh received **Kishor Vaigyanik Protsahan Yojana (KVPY)** Scholarship getting ₹**5000/-** every month and she attended the Workshop conducted by **Indian Institute of Science Bengaluru** from 8-11-2014 to 10-11-2014
   - Mr. Sripad Joshi along with Mr. Prasad Sarwate and Mr. Sushil Kataria secured 6$^{th}$ Place in Quiz conducted by **IIT, Bombay in the academic year 2010-11**
   - Miss Radha Sanganaikar got Consolation Prize in Bharatnatyam in South Zone Youth Festival 2012-13
   - Miss Durga Mahale got **second prize** with a cash prize of ₹**8000/-** in Elocution Competition organized by Satish Sugar Awards held on 16$^{th}$ Nov.2014.    She also got **First place** with a cash prize of ₹**1500/-** in Oral paper presentation competition during National Seminar On "Climate Change and its Impact on Biodiversity"organized by our College held on 30$^{th}$ & 31$^{st}$ January 2015
   - Miss Sneha Kaktikar, selected at University Blue and RC University Belagavi  in Shuttle Badminton at Bharthiar University, Coimbatore, Tamilnadu

**20. Seminars/Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.**

| Sl. No. | Name of Seminar/ Conference/ workshop | Outstanding participants | Source of Fund |
|---|---|---|---|
| 1 | Two day National Seminar on "Climate Change and its impact on Biodiversity" in the year 2014-15. | **Shri. V.N. Misale** Scientist ISRO,Bengaluru | UGC |
| | | **Dr. Prakash Divan** Former Director Grade Scientist, IICT. Hyderabad | |
| | | **Dr. Ramesh Kumar** Scientist, NIO, Goa | |
| | | **Dr.(Smt.) Niranjana Chavan** Professor, P.G. Department of Botany Shivaji UniversityKolhapur | |
| | | **Dr. T.C. Taranath** Chairman P.G. Study in Botany, Karnatak University, Dharwad | |
| | | **Dr. Harasha Hegade** Scientist, RMRC Belgavi | |
| | | **Dr Giriyappannavar** Karnatak Science College, Dharwad | |
| | | **Dr M.B.Mulimani** K.C.P.Science College Vijayapur | |
| 2 | Two Day State level Workshop on "Advanced Botany Practicals in view of new Curriculum" in the year 2013-14 | **Dr. S. B. Dandin** Vice Chancellor, University of Horticultural Sciences, Bagalkot | UGC |
| | | Dr. Bosco Henriques Founder, Tech. Resource, Mumbai | |
| | | **Dr. C. G. Patil** Department of Genetics, Karnatak University, Dharwad | |
| | | **Dr. Shyamkumar** Department of Microbiology, Karnatak University, Dharwad | |
| | | **Dr. Mustafa Motiwala,** Director of Biodye & Proprietor of Tech. Resource Mumbai | |
| | | **Dr. Suresh Arakera,** Karnataka Institute of DNA Research, Karnatak University, Dharwad | |
| 3 | One Day Conference of Botany, Zoology & Biotechnology Teachers of Rani Channamma University , Belagavi & Karnatak University, Dharwad | **Dr. S. B. Dandin** Vice Chancellor, University of Horticultural Sciences, Bagalkot | Self |
| | | **Prof. G R Hegde** Chairman, P. G. studies in Botany, Karnatak University, Dharwad | |
| | | **Prof. Venkanna,** Principal, R.T.S. College Ranebennur | |
| | | **Prof. Gadgil,** HoD of Botany, G.S.S. College Belagavi | |
| | | **Prof (Smt) A M Radha** Former, HoD of Botany RLSI Belagavi | |

## 21.  Student profile course-wise:

| Name of the Course | Year | Applications received | Selected Male | Selected Female | Pass percentage Male | Pass percentage Female |
|---|---|---|---|---|---|---|
| B.Sc. | 2014-15*** | 68 | 26 | 42 | 70.8 | 92.6 |
| | 2013-14** | 73 | 22 | 51 | 95.45 | 96.08 |
| | 2012-13* | 56 | 08 | 48 | 100 | 100 |
| | 2011-12 | 38 | 14 | 24 | 100 | 100 |
| | 2010-11 | 60 | 13 | 47 | 92.30 | 97.87 |

* Results of V Sem. only.   ** Results of III Sem. only.   ** * Results of  I Sem. Only.

## 22.  Diversity of Students

| Name of the Course | Year | % of students from the college | % of the students from the state | % of students from other States | % of students from other countries |
|---|---|---|---|---|---|
| B.Sc. | 2014-15 | 18.92 | 94.59 | 5.41 | - |
| | 2013-14 | 16.47 | 96.47 | 3.53 | - |
| | 2012-13 | 15.72 | 95.72 | 4.28 | - |
| | 2011-12 | 21.05 | 100 | - | - |
| | 2010-11 | 35 | 100 | - | - |

## 23.  How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?
   **Nil**

## 24.  Student progression

| Student progression | Percentage against enrolled | | | | |
|---|---|---|---|---|---|
| | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 |
| UG to PG | 65.5 | 29.54 | 54.90 | 66.66 | - |
| PG to M.Phil. | - | - | - | - | - |
| PG to Ph.D. | - | - | - | - | - |
| Ph.D. to Post-Doctoral | - | - | - | - | - |
| Employed • Campus selection | - | - | - | 3.33 | 3.44 |
| • Other than campus selection | - | 4.54 | 4.08 | - | - |
| Entrepreneurs | 7.1 | | | | |

## 25.  Diversity of staff:

| Percentage of faculty who are graduates | |
|---|---|
| of the same university (parent University came into existence from 27-07-2010) | - |
| from other university within the State | 100 |
| from other university from other States | - |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.**

**Nil**

**27. Present details about infrastructural facilities**

g) **Library**

| | |
|---|---|
| **Departmental Library Books** | **: 254** |
| **Central Library Books** | **: 3152** |
| **Journals** | **: 12** |
| **Subject CDs** | **: 10** |
| **Ph.D. / M.Phil. Thesis / MRP** | : 08 |

h) **Internet facilities for staff and students**  **: 01**
i) **Total Number of class rooms**  **: 02**
j) **Class rooms with ICT facility**  **: 02**
k) **Students' laboratories**  **: 02**
l) **Research Laboratories**  **: 01**

**28. Number of students of the department getting financial assistance from College.**

| Financial assistance | Number of students getting Financial assistance | | | | |
|---|---|---|---|---|---|
| | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| Government | - | 17 | 15 | 24 | 06 |
| Endowment cash Prize | - | 01 | 01 | 02 | 01 |
| RLSI Nidhi | 05 | - | 02 | 02 | 01 |
| Student Aid Fund | - | - | 03 | 03 | 01 |
| K.S.S.W | - | - | 03 | 03 | 01 |

**29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes, need assessment exercise was undertaken in view of the changing needs of the society and to make the students self employed. Feedback was taken from the students, parents, alumni and academicians before the development of the new programs. Accordingly Certificate courses in Mushroom cultivation and Horticulture practies are introduced.

**30. Does the department obtain feedback from**

- **faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes, the Department takes feedback from the faculty during regular departmental meetings on teaching-learning and evaluation at the end of internal tests and Semester End Examinations.

Faculty members from other institutions give their feedback during valuation.

The, feedback obtained from faculty on curriculum is used for framing the syllabus in BoS meeting. Based on the feedback obtained on

teaching- learning evaluation, new teaching-learning methods are adopted for better understanding.  These suggestions are discussed with subject experts and then drafted syllabus is placed before the BoS meeting for discussion and is then placed before the Academic Council and Governing Body for approval.

- **students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Yes, feedback committee takes the feedback from students on faculty, teaching methods and evaluation system.  The feedback is analyzed and discussed in the departmental meetings. Suggestions and concerns raised by the students are considered for the incorporation in the subsequent courses and also in the teaching methodology.

- **alumni and employers on the programmes and what is the response of the department to the same?**

Yes, feedback and inputs are received from the graduates and from alumni during alumni meet on curriculum and teaching methods. The feedback is obtained from employers during campus placements on the curriculum.  The suggestions are discussed in the departmental meetings and are taken into consideration to incorporate during redesigning of the curriculum. Representation of alumni is there in Board of Studies for getting their valuable suggestions and incorporated positively.

## 31.  List the distinguished alumni of the department (maximum 10)

| S. No. | Name of the Alumnus | Address |
|---|---|---|
| 1 | Dr. Shivanand R. Patil, | Sr. Scientist, Cytogenetic and Molecular Laboratory IOWA University, USA |
| 2 | Dr.(Smt) Mrinalini Bhave | Sr. Scientist, Cancer Hospital, Canberra Australia |
| 3 | Dr. S. S. Salimath | Scientist, University of North Texas Washington State University, USA 6101,Sun Ray Drive Denton,Rexas- USA |
| 4 | Dr. S. B. Dandin | Vice-Chancellor, University of Horticultural Sciences, Sector No.60, Navanagar, Bagalkot |
| 5 | Smt Sadhana Pote | **KAS**, Employment Officer, Belagavi Division |
| 6 | Dr( Smt) Niranjan Mulik | Professor, Department of Botany, Shivaji University, Kolhapur-416004 |
| 7 | Dr Shashikala R.Inamdar | Chairman, P.G.Studies in Biochemistry Karnatak University Dharwad |
| 8 | Shri Mayur Rajankar | Senior Research Fellow National Chemical Laboratory, Pune |
| 9 | Dr. S.H.Motimath | Professor, Department of Orthopedics K.L.E. University's Jawaharlal Nehru Medical College, Belagavi |
| 10 | Shri Anand Darur | Industrialist, Herbal Pharmaceuticals Autonagar  Belagavi |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

- Special lectures by distinguished academicians and researchers are arranged regularly

| Year | Date | Name of the Guest Lecturer | Topic covered |
|---|---|---|---|
| **2014-15** | 17-01-2015 | Dr. K. Kotresha HoD of Botany, Karnatak Science College, Dharwad | Plant Diversity and its conservation |
| | 17-09-2014 | Shri. Krishna Chavan Ratnashri Landscapers, Belagavi | Landscaping |
| **2013-14** | 3rd and 4th Jan. 2014 | Dr. Jayteerth Kulkarni Proprietor , Kulkarni Farm Fresh Mushroom *Tigadi* (Belagavi District of Karnataka State | Mushroom cultivation |
| | 29-01-2014 | Prof S.Y. Prabhu Former Principal, G.S.S. College, Belagavi | Responsibilities of Natural Science Students |
| | 21-02-2014 | Dr. Krishnaraj Head of I.A.B.T., University of Agricultural Sciences, Dharwad | Food and Nutritional security |
| | 09-08-2013 | Shri D. Desai Biocentre, Belagavi | Mushroom cultivation |
| | 12-09-2013 | Shri K. N. Shyamantha Deputy Director, Biocentre, Belagavi | Micro propagation |
| | 17th & 19th Sept. 2013 | Shri M. V. Mathad Principal,  K L E S's Agricultural College, Belagavi | Horticulture practices |
| | 27-09-2013 | Dr. R. C. Mathad Chief Co-ordinator,  Department of Ayurvedic Education,  B. M. K. Ayurvedic College, Belagavi | Cosmetology and Ayurvedic Herbs |
| | Special lectures  in UGC Sponsored Workshop | | |
| | 16-01-2014 | Dr. S. B. Dandin Vice- Chancellor, University of Horticultural Sciences, Bagalkot & Alumnus | Advanced techniques in Botany |
| | | Dr. C. G. Patil Department of Genetics Karnatak University, Dharwad | Identification of G.M. Plants |
| | | Dr. Shyamkumar Department of Microbiology Karnatak University, Dharwad | Bioinformatics |
| | 17-01-2014 | Dr Bosco Henriques Founder Tech.Resource, Mumbai | Gel Electrophoresis |
| | | Dr.Mustafa Motiwala Director, BioDye & Tech. Resource, Mumbai | |

| | | | |
|---|---|---|---|
| **2012-13** | | Dr. Suresh Arakera Research Fellow, Karnataka Institute of DNA Research, K.U.D. campus | Isolation and estimation of DNA |
| | | Shri Vijay Kumbar K. L. E. University's Dr. Prabhakar Kore, Basic Science Research Centre, Belagavi | Isolation and Estimation of RNA & proteins |
| | 01-02-2013 | Shri M. V. Mathad Principal, K. L. E. S's Agri. College, Belagavi | Horticulture practices |
| | 08-09-2012 | Dr. K.S. Jagadeesh Professor, Department of Agricultural Microbiology, U.A.S., Dharwad | Microbial Biotechnology-microbial Use & Biogas production |
| | 02-02-2012 | Dr. Shivanand Patil Scientist, IOWA University USA | Interaction with students - Scope in Molecular Biology |
| | 24-01-2012 | Shri Mayur Rajankar Senior Research Fellow, Indian Institute of Science, Bengaluru | Scope and Trends in Life Science |
| **2011-12** | 10-04-2011 | Dr. S. B. Dandin Vice- Chancellor, University of Horticultural Sciences, Bagalkot | Need for change in the Botany Syllabus. |
| **2010-11** | 23rd & 24th Feb. 2011 | Shri. M. V. Mathad Lecturer K. L. E. S's Agricultural College, Belagavi | Basics of Horticultural practices |
| | 19-10-2010 | Dr S. S. Jalapure Associate Prof. K. L. E. S's College of Pharmacy, Belagavi | Evaluation of Poly-herbal Formulations for anti-hyper sensitive activity of medicinal plants |

### 33. List the teaching methods adopted by the faculty for different programmes.

Apart from conventional lecture methods following teaching methods are adopted:

- Student centric teaching and learning
- Combining ICT based teaching with traditional methods to promote high standard education to the students.
- Animations / audiovisual aids /video clippings of recent developments in the subject are shown from time to time
- Interactive teaching-learning by motivating the students to give seminars and it is followed by group discussions.
- Students are given assignments on general topics so that they use reference books and internet facility to enhance their knowledge
- Lab. cum theory class room for better understanding by microscopic observations, slide preparation and specimen observation

- Project based teaching- learning
- Remedial classes for slow learners and Enrichment classes for advanced learners
- Outside class room teaching in Botanical /Medicinal garden
- Using models and Charts
-  Excursions/Study tours
- Visit to Research centers / industries

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**

The programme objectives and learning outcomes are monitored in the following ways:

- Preparing teaching plan and teaching schedule in the beginning of the academic year
- Regular staff meetings
- Continuous assessment through internal tests and analyzing Semester End results
- Procuring advanced equipments
- Class room interaction
- Being a Mentor and monitoring the academic progress of the student
- Student counseling
- Discussing model question papers
- Parent- Teacher meet/Alumni meet
- Publication of research papers in National/ International Journals
- Attending and presenting research papers in Seminars / Conferences
- Celebrating Vanamohatsav, Ozone Day and World environment day

**35. Highlight the participation of students and faculty in extension activities.**

Students and faculty actively participate in extension activities organized by the department.

- Faculty motivates the students to participate in science exhibitions in popularizing the Life sciences
- Our Department in association with NSS organizes **tree plantation** drive to maintain the campus **eco-friendly**
- Popularizing herbal medicinal use
- Ozone day and World Environment Day celebrations to develop sense of social responsibilities
- Students and faculty visit exhibitions of flowers, vegetables and fruits organized by Horticultural Department
- Students and faculty actively participate in National festivals to develop the sense of citizenship

**36. Give details of "beyond syllabus scholarly activities" of the department.**

- Organizing Seminars / Conferences/ Workshops/ Guest lectures
- Conducting Certificate courses
- Honorary consultancy in authentication of plants and mushroom cultivation
- Publishing papers in National and International Journals
- Attending and presenting research papers in Conferences and Seminars.
- Encouraging the students to present papers in National and State level Conferences and Seminars.
- Faculty participation as Resource Persons
- Involvement in research oriented student projects
- Excursions/Study tours
- Visit to Research centers and institutes of higher learning
- Participation of faculty and students in social awareness programmes and rallies
- Active part in National festivals and celebration of Jayanthi of Role Models
- Motivating and guiding the students to participate in various competitions in co-curricular and extracurricular activities

**37. State whether the programme/ department is accredited/ graded by other agencies. Give details.**

Department as a unit is not accredited individually. However the college as a whole is accredited and re-accredited by NAAC

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

**Strengths:**

- Adequate laboratories with advanced equipments
- Well established museum with rich collection of plant specimens
- All the staff members with research experience
- Outstanding results
- Documentation of flora of the campus in the form of 'Pictorial flora of the campus'

**Weaknesses:**

- Students with moderate profile at the entry level
- Being an agrarian area, opportunities for industrial tie up are rare
- Limited collaborations with institutes of higher learning / industries

### Opportunities:
- Department can be center for Research Activity and center for basic studies in Botany
- Exposure of students to more career opportunities and entrepreneurship
- Organizing Extension activities
- Strengthening the Department Library
- To train the students to become entrepreneurs in mushroom cultivation and Biofertilizers

### Challenges:
- To make students as entrepreneurs
- Popularizing the traditional usage of the medicinal plants
- Publication of papers in high impact factor journals

**39. Future plans of the department.**
- To take up Major Research Projects
- To study medicinal plants for phyto-chemicals analysis
- To organize community oriented extension activities
- To set up Tissue Culture laboratory

# Department of Zoology

1. **Name of the Department & its year of establishment**

         Name of the Department    :   Zoology

         Year of establishment     :   1935

2. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

         Undergraduate    :    B.Sc. (CBZ, CZBT)

         Certificate courses  :    Poultry Science

                                  Dairy Science

3. **Interdisciplinary courses and departments involved**

         Interdisciplinary course:   B.Sc

         Departments involved  :   Department of Statistics

                                  Department of Chemistry

                                  Department of   Botany

                                  Department of Biotechnology

4. **Annual / semester / choice based credit system**

   - Semester system : UG
   - Annual system    : Certificate Course

5. **Participation of the department in the courses offered by other departments**

   - Department of Chemistry - Biomolecules
   - Department of Statistics – Biostatistics
   - Department of Botany- Genetics & Cytology
   - Department of Biotechnology- Microbiology

6. **Number of teaching posts sanctioned and filled  ( Professors/ Associate Professors/ Asst. Professors)**

   |  | Sanctioned | Filled |
   |---|---|---|
   | Professor |  | - |
   | Associate Professors | 04 | 02 |
   | Asst. Professors |  | 02 |

7. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.,)**

| Name | Qualification | Designation | Specialization | No. of Years of Experience |
|------|---------------|-------------|----------------|----------------------------|
| Shri.S.S.Abbai | M.Sc | Associate Professor | Entomology | 23 |
| Dr.V.R.Naik | M.Sc. Ph.D | Associate Professor | Environmental Biology | 22 |
| Smt. K .I. Pattan | M.Sc. M.Phil | Assistant Professor | Environmental Biology | 17 |
| Miss G.B. Gaikwad | M.Sc | Assistant Professor | Zoology | 01 |

8. **Percentage of classes taken by temporary faculty-programme-wise information**

   **UG Programme**

| Year | Percentage of classes taken by temporary staff |
|------|------------------------------------------------|
| 2014-15 | 25 |
| 2013-14 | 0 |
| 2012-13 | 0 |
| 2011-12 | 25 |
| 2010-11 | 0 |

9. **Programme-wise Student Teacher Ratio**

| Year | Student Teacher Ratio |
|------|-----------------------|
| 2014-15 | 60:1 |
| 2013-14 | 53:1 |
| 2012-13 | 46:1 |
| 2011-12 | 38:1 |
| 2010-11 | 39:1 |

10. **Number of academic support staff (technical) & administrative staff :sanctioned and filled**

    **NIL**

**11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.**

| Name of the faculty | Name of the project | Amount sanctioned | Funding Agency | Status |
|---|---|---|---|---|
| Smt.. R .S. Maben | Biodiversity of birds of Belagavi city | ₹55,000/- | UGC | Ongoing |
| Dr. B. N. Sunkad | Ecology & Biodiversity of Malaprabha river & its role in socio-economic status (Major Research Project ) | ₹11,13,484/- | UGC | Completed in 2014 |
| Shri.. S. S. Abbai | Study of Biodiversity of pond of Shri Kshetra Sogal of Belagavi. | ₹40,000/- | UGC | Completed in 2011 |
| Smt. K. I. Pattan | Ornithological studies of migratory birds visiting Hidkal catchment area | ₹92000/- | UGC | Completed in 2011 |
| **Total amount sanctioned:** | | **₹13,00,484/-** | | |

**12. Departmental projects funded by DST-FIST; DBT, ICSSR , etc.; total grants received**

| Name of the Student | Class | Name of the Project | Amount sanctioned | Funding agency | Status |
|---|---|---|---|---|---|
| 1. Miss Vijaylakshmi. Naik<br>2. Miss Varsha. Patil | B.Sc. V sem | Preliminary phytochemical investigations in the roots of *Nerium oleander* Linn. | ₹30,000 | VGST | Completed in 2012 |

**13. Research facility/ centre with**

- state recognition : -
- national recognition : -
- international recognition : -
- institutional research centre : 01

**14. Publications:**

- number of papers published in peer reviewed journals (national / international) : 13
- monographs : --
- chapter(s) in Books : 01
- editing Books : --

- books with ISBN numbers
  with details of publishers : --
- number listed in International Database (For example Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Science Directory, EBSCO host, etc.) : --
- citation Index - range : 1 – 3
   average : 1.25
- SNIP : --
- SJR : --
- impact factor - range : 1 – 2
  average : 1.3
- h- index : --

## 15. Details of patents and income generated
**NIL**

## 16. Areas of consultancy and income generated
Consultancy:
- Supply of histological slides (ribbons ) to various colleges
  Income generated : ₹. 2800/-
- BP and Sugar tests: Honorary

## 17. Faculty recharging strategies
- Publishing Research Papers in National/ International Journals
- Attending  and presenting research papers in Seminars/Workshops/Conferences
- Organizing conferences /seminars/workshops
- Group Discussions and experimental learning
- Study tours
- Attending Orientation & Refresher Courses
- Interacting with subject experts & arranging guest lectures
- Faculty Development Programmes
-  Referring e-journals & e-library
- Participation in extension activities
- Faculty involvement in guiding the student in-house-Projects
- Use of specimens, charts and models

## 18.   Student projects

- **Percentage of students who have done in-house** projects **including inter-departmental**

| Year | No. of Projects | No. of students involved | Percentage of students |
|------|-----------------|--------------------------|------------------------|
| 2014-15 | 06 | 76 | 100 |
| 2013-14 | 05 | 32 | 100 |
| 2012-13 | 06 | 66 | 100 |
| 2011-12 | 05 | 47 | 100 |
| 2010-11 | 06 | 22 | 100 |

B.Sc final year students take up in-house projects

- **Percentage of students doing projects in collaboration with industries/ institutes:**

**Nil**

## 19.   Awards / recognitions received at the national and international level by

- **Faculty**                                        :NIL
- **Doctoral/ post doctoral fellows** : NIL
- **Students**
  - Miss Jainabi. Mulla(NCC)-Won **03 Gold medals** & All India Best Aeromodellar trophy
  - Miss.Juhi Singh is awarded **Kishor Vigyan Scholarship** and she got an opportunity to interact with National and International level  scientists Indian Institute of Science, Bengaluru.
  - Ms. Radha Sanganaikar – Consolation prize in National level Bharatnatyam  held at Gulbarga University,Gulbarga.
  - Mr. Adeeb K. Yaksambi -**Won Bronze Medal** in **National level** Cyclothon, Ahmedabad (2013-14)
  - Miss. Aishwarya Hattiholi, B.Sc.III sem. student presented a paper in **National level** seminar on Literature and Life at SCP Arts and DDS Commerce College, Mahalingpur during the year 2014-15 and received **II prize.**
  - Miss. Priya. R.K, B.Sc.V sem student presented a paper in **National level** seminar on Global waste management at G.I. Bagewadi College, Nipani during the year 2014-15 and received **II prize**.

**University Ranks:**

Miss. Nandita.V. Haldankar secured **10th Rank** to Karnatak University, Dharwad in 2010.

**20. Seminars/ Conferences/ Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

| Sl. No. | Name of Seminar/ Conference/ Workshops | Year | Outstanding Participants | Source of Funding |
|---|---|---|---|---|
| 1 | One Day Conference of Botany, Zoology & Biotechnology Teachers of Rani Channamma University , Belagavi & Karnatak University, Dharwad | 2011-12 | Dr. S. B. Dandin, Vice Chancellor, University of Horticultural Sciences, Bagalkot | Self |
| 2 | Two-Day National Seminar on Climate change & Its Impact on Biodiversity | 2014-15 | Shri. V.N. Misale Scientist ISRO,Bengaluru. Dr. Prakash Divan President Pharmacology Department Hyderabad. Dr. Ramesh Kumar Scientist, NIO, Goa Dr.(Smt.) Niranjana Chavan Chairperson, P.G.Department of Botany Shivaji UniversityKolhapur Dr. T.C. Taranath Chairman P.G. Study in Botany, Karnatak University, Dharwad Dr. Harasha Hegade Scientist, RMRC Belgavi Dr Giriyappannavar Karnatak Science College,Dharwad Dr Mulimani KCP Science College, Vijaypur | UGC |

**21. Student profile course-wise:**

| Name of the Course | Year | Applications received | Selected | | Pass percentage | |
|---|---|---|---|---|---|---|
| | | | Male | Female | Male | Female |
| B. Sc. III | 2014-15 | 76 | 13 | 63 | 100 | 98.41* |
| | 2013-14 | 32 | 08 | 24 | 100 | 100 |
| | 2012-13 | 66 | 14 | 52 | 100 | 98.07 |
| | 2011-12 | 47 | 15 | 32 | 100 | 100 |
| | 2010-11 | 22 | 04 | 18 | 100 | 100 |

* V Semester only

## 22. Diversity of Students

| Name of the course: B. Sc | % of students from the college | % of students from the state | % of students from other state | % of students from other country |
|---|---|---|---|---|
| 2014-15 | 16.60 | 92.78 | 7.22 | - |
| 2013-14 | 15.63 | 97.92 | 2.08 | - |
| 2012-13 | 20.70 | 91.96 | 8.04 | - |
| 2011-12 | 24.40 | 75.60 | - | - |
| 2010-11 | 35.22 | 64.78 | - | - |

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?

Miss. Manisha Sharma : Defense Service

Miss.Shilpa Birje : NET Pass

## 24. Student progression

| Student progression | Percentage against enrolled | | | | |
|---|---|---|---|---|---|
| UG to PG | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 |
| | 66.66 | 50.00 | 55.33 | 43.75 | |
| PG to M.Phil | - | - | - | - | |
| Employed • campus selection | - | 14.89 | 6.6 | 9.3 | 19.73 |
| • other than campus selection | - | - | - | - | - |
| Entrepreneurs | - | - | - | - | - |

## 25. Diversity of staff

| Percentage of faculty who are graduates | |
|---|---|
| of the same parent university (Parent university came into existence from 27-07-2010) | - |
| from other universities within the State | 100 |
| from other universities from other State | - |

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

**NIL**

## 27. Present details about infrastructural facilities

a) Library

• Departmental library:

Books : 206

Thesis/ Dissertation : 06

Subject CDs : 10

• Central library:

Books : 2971

Journals : 16

b) Internet facility for staff and students : Yes
c) Total number of class rooms : 03
d) Class rooms with ICT facility : 03
e) Students' laboratories : 03
f) Research laboratories : 01

## 28. Number of students of the department getting financial assistance from College.

| Financial assistance | Number of students year wise | | | | |
|---|---|---|---|---|---|
| | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| R.L.S .I. Nidhi | 05 | 01 | 03 | 04 | 03 |
| Student Aid Fund | - | - | 02 | 02 | 05 |
| K.S.S.W | - | - | 02 | 02 | 05 |
| Endowment Cash Prize | - | 01 | 01 | 02 | 01 |

## 29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Yes, in view of changing needs of the society and making students self employed, our alumni, parents and subject experts gave their valued suggestions for the development of new programme. Such suggestions were collected in the form of feedback and discussions and as a result, certificate courses are introduced.

## 30. Does the department obtain feedback from

**a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes, the departmental meetings are conducted every month. In the meeting the syllabus, teaching methodology to be adopted and examination pattern are discussed. The draft syllabus for the programmes is sent to experts for opinion. Then modified draft syllabus is placed before the BOS meeting for approval.

**b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?**

Yes, the feedback committee takes the feedback from students on staff & on teaching-learning and evaluation. Short comings are noted & discussed with staff in the department meeting & suggestions are given for the improvement

**c. alumni and employers on the programmes and what is the response of the department to the same?**

Yes, through alumni meet suggestions on the curriculum is obtained & suggestions are discussed in the department meetings & recommended to the BoS. A distinguished alumnus is the member of BoS.

## 31. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name of the Alumni | Address |
|---|---|---|
| 1 | Dr. S.S.Salimath | Scientist, University of North Texas Washington, State University,USA |
| 2 | Dr. Suresh B. Patil | Scientist, Michigan State University, USA |
| 3 | Shri.K.V.Sharatchandra IPS | Joint Commissioner of Police,Bengaluru. |
| 4 | Shri Ashok Kurer | Supdt.of Police, Human Rights, Belagavi. |
| 5 | Shri.P.G.Wandkar | Supdt.of Police,Intelligence,Belagavi |
| 6 | Smt. Sadhana Pote | District Employment officer, Belagavi. |
| 7 | Dr. S.M. Yamkhanmardi | Prof.and Head,Department of Zoology, Mysore University, Mysore |
| 8 | Smt. Renu. S. Astagimath | Comm. Associate, Capital Pharmacy, Muscat, Oman |
| 9 | Dr. S.B.Kulkarni | Chairman, Indian Red Cross Society, Belagavi District |
| 10 | Shri.Shivaraj.Sajjan. | Ex.MLC,,Basaveshwar Nagar,Haveri |

## 32. Give details of student enrichment programmes (special lectures /workshops/ seminar) with external experts.

### Special lectures conducted for the enrichment of the students:

| Year | Date | Guest | Topic |
|---|---|---|---|
| 2014-15 | 27/08/2014 | Dr. P.S. Aralikatti,M.S. Belagavi | T.B. Sensitization Programme |
| | 01/10/2014 | Shri. P.K.M. Prashant, Asst. Conservator of Forest, Khanapur | Wild life week |
| | 03/01/2015 | Dr. Durgannavar, Veterinary Hospital, Belagavi | Dairy Science |
| | 06/02/015 | Dr. Yanni & Dr. Ammanagi, Belagavi | B.P. Check up for Staff & Students |
| 2013-14 | 04/09/2013 | Dr Ashok .N. Kolla, Asst. Director, Karnatak Poultry Federation, Belagavi | Poultry Farming |
| | 07/10/2013 | Smt. Sareena Shikkalgar, Asst. Conservator of Forests, Belagavi | Wild Life Conservation |
| | 11/01/2014 | Shri. Anand. Chitti Snake Charmer, Belagavi | Local Poisonous & Non Poisonous Snakes |
| | 22/01/2014 | Dr. Vidyasagar, Rani Channamma University, Belagavi | Why size matters in Nanotechnology? |
| 2012-13 | 08/10/2013 | Dr. Mahantesh Ramannavar, B.M.Kankanwadi Ayurvedha Mahavidyalaya, Belagavi | Health & Hygiene |
| | 18/01/2013 | Dr. Vijay Kupwade, G.S.S College, Belagavi | Awareness of Cancer |
| 2011-12 | 07/10/2011 | Shri. Prashant Sankinmath Asst. Conservator of forests, Belagavi | Spreading Awareness for Conservation of Biodiversity |
| | 24/01/2012 | Dr.Ravi, KLE hospital Blood Bank, Belagavi | Blood Groups |
| 2010-11 | 12/10/2010 | Shri R.G. Timmapur Environmentalist, Hidkal Dam | Wild Life in India |
| | 30/03/2011 | Shri Amrut. Charantimath Ornithologist, Belagavi | Biodiversity of Western Ghats |

33. **List the teaching methods adopted by the faculty for different programmes.**
    - Using Charts / Models
    - Chalk and Talk
    - Using PPT
    - Practicals- By demonstration, using preserved specimens
    - Slide Projector
    - Study Tours / Field visits
    - Group Discussions/ Seminars
    - Projects
    - Subject CDs

34. **How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**
    - Class room interaction
    - Result analysis
    - Continuous assessment through internal tests
    - Mentor system
    - Parent –Teachers meet
    - Publication of research papers in National / International Journals
    - Guiding and monitoring the students in the Projects
    - Attendance of the students
    - Teaching through demonstration

35. **Highlight the participation of students and faculty in extension activities.**
    - Blood donation camp
    - AIDS Awareness Programme
    - Awareness on donating human body for medical research
    - Environmental awareness
    - H1 N1 awareness
    - Rain water harvesting
    - Organic farming
    - Free Dental Check-up Camp
    - Guest lectures on effects of tobacco on health, Prevention of Drugs and Substance Abuse amongst youth/students, etc.
    - Rally on prevention of female foeticide
    - Rally on National Road Safety Week
    - Rally on Voting Awareness
    - Rally on World Heart Day

**36.** **Give the details of "beyond syllabus scholarly activities" of the department.**

- Publishing papers in National & International Journals
- Conducting Certificate Courses
- Involvement in in-house research projects of students
- Participation of staff & students in awareness programmes & rallies
- Attending Seminars / Conferences
- Organizing Seminars/ Guest Lectures/ Study Tours

**37.** **State whether the programme/ department is accredited / graded by other agencies. Give details.**

Our department as a unit is not accredited. However our college as a whole is accredited and reaccredited by NAAC.

**38.** **Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**

Strengths

- Well established laboratories with advanced equipments
- Rich Museum with collection of rare specimens
- Curriculum on preservation of wild life
- National and International publication by the staff
- Active participation in the extension activities

Weakness

- Imparting education by using live animals banned

Opportunities

- Facilities for research activity
- Strengthening of consultancy

Challenges

- Poor student profile at the entry level
- Motivation of students for higher education
- To introduce new techniques in the field of research activities

**39.** **Future plans of the department.**

- Strengthening of consultancy
- To conduct National Seminar

# Department of Biotechnology

1.  **Name of the Department & its year of establishment**
    Name of the department      :      Biotechnology
    Year of establishment       **:**      2004

2.  **Name of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**
    - Undergraduate course    : B.Sc (CBBT, CZBT)
    - Certificate course      : Food & Nutrition Biotechnology
                                 Plant Tissue Culture

3.  **Interdisciplinary courses  and departments involved**
    - Department of Chemistry
    - Department of Botany
    - Department of Zoology

4.  **Annual / semester / choice based credit system**
    - Semester system    :      UG course
    - Annual system      :      Certificate course

5.  **Participation of the department in the courses offered by other departments**
    - Department of Chemistry  :   Amino acids and Proteins
    - Department of Zoology    :   Genetics
    - Department of Botany     :   Mushroom Culture

6.  **Number of teaching posts sanctioned and filled ( Professors/ Associate Professors/ Asst. Professors)**

    |                      | Sanctioned | Filled |
    |----------------------|:----------:|:------:|
    | Professors           |            |   -    |
    | Associate Professors |     02     |   -    |
    | Asst. Professors     |            |   02   |

7.  **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.,)**

    | Name | Qualification | Designation | Specialization | No. of Years of Experience |
    |------|---------------|-------------|----------------|----------------------------|
    | Miss. S.I. Puranik | M.Sc (KSLET) | Asst. Professor | Biotechnology | 09 |
    | Miss. P.C. Basti | BE | Asst. Professor | Biotechnology | 05 |

8. **Percentage of classes taken by temporary faculty-programme-wise information**

| Year | Percentage of classes taken by temporary staff |
|---|---|
| 2014-15 | 100 |
| 2013-14 | 100 |
| 2012-13 | 100 |
| 2011-12 | 100 |
| 2010-11 | 100 |

9. **Programme-wise Student Teacher Ratio**

| Year | Student Teacher Ratio |
|---|---|
| 2014-15 | 34:1 |
| 2013-14 | 25:1 |
| 2012-13 | 24:1 |
| 2011-12 | 24:1 |
| 2010-11 | 22:1 |

10. **Number of academic support staff (technical) and administrative staff sanctioned and filled**

Nil

11. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise**

Nil

12. **Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received**

Nil

13. **Research facility/ centre with**
   - **state recognition** : -
   - **national recognition** : -
   - **international recognition** : -
   - **institutional research centre** : one

14. **Publications:**
   * **number of papers published in peer reviewed journals (national/ international)** : -
   * **Monographs** : -
   * **Chapter(s) in Books** : -
   * **Editing Books** : -
   * **Books with ISBN numbers with details of publishers** : -

- ∗ **number listed in International Databases(For e.g. Web of Science, Scopus, Humanities International Complete, Dare Databases- International Social Science Directory, EBSCO host, etc.)** : -
- ∗ **Citation Index-range/ average** : -
- ∗ **SNIP** : -
- ∗ **SJR** : -
- ∗ **Impact factor -range / average** : -
- ∗ **h- index** : -

15. **Details of patents and income generated**

     Nil

16. **Areas of consultancy and income generated**
    - Consultancy :
      - Technical consultancy in testing samples like Herbal extracts and Food adulteration
      - Hemoglobin testing
    - Income generated : Honorary

17. **Faculty recharging strategies**
    - Conducting guest lectures and interacting with experts
    - Seminars /Conferences/ Workshops/ Training programmes
    - Organizing workshop on new curriculum
    - To serve as resource persons
    - Actively involved in Group Discussions in practicals
    - Study tours and visit to research centers and industries
    - Attending Faculty Development Programmes
    - Use of e-library, e-books and e-journals
    - Participation in extension activities
    - Faculty involvement in guiding students to carry out projects
    - Use of advanced equipments and learning resources

18. **Student Projects**
    - **percentage of students who have done in- house projects including inter-departmental**

| Year | No. of Projects | No. of students involved | Percentage of students |
|---|---|---|---|
| 2014-15 | 02 | 14 | 58.54 |
| 2013-14 | 03 | 16 | 100 |
| 2012-13 | 04 | 26 | 86.96 |
| 2011-12 | 04 | 21 | 100 |
| 2010-11 | 02 | 12 | 71.43 |

- **percentage of students doing projects in collaboration with industries/ institutes**

| Year | No. of Projects | No. of students involved | Percentage of students | Industry/Institute |
|------|-----------------|--------------------------|------------------------|--------------------|
| 2014-15 | 03 | 10 | 41.66 | 1. Biocentre, Laxmitek , Belagavi<br>2. Belagavi Institute of Medical Sciences, Belagavi<br>3.Optimus Herbal Extract, Belagavi |
| 2012-13 | 01 | 03 | 13.04 | Veterinary Hospital, Belagavi |
| 2010-11 | 02 | 04 | 28.57 | Regional Medical Research Center, Belagavi |

19. **Awards / recognitions received at the national and international level by**
    - **Faculty**                    : -
    - **Doctoral/ Post doctoral fellows**    : -
    - **Students**
      **2014-15**
    - Miss.Aiswarya Hattiholi presented a paper in Natioanl level seminar on Litertature and Life and received **2nd prize** at SCP & DDS Arts & Commerce College Mahalingpur
    - Miss Priya.R.K. presented a paper in National level Conference on Global Waste Management and won **2nd prize** at G.I.Bagewadi Artes, Science & Commerce College, Nipani.
      **2013-14**
    - Mr. Adeeb K Yaksambi received **Bronze Medal** in National level in Cyclothon Rajkot Gujrat
      **2011-12**
    - Mr.Vinayak. Beliyali received **Gold Medal** in All India Vayu Sainik camp for Aeromodelling
    - Miss Sampada Shanbhag won **1st prize** in National Level seminar for paper presentation on 'Redesigning of Higher Education in Present Changing Environment' at B.K. College Chikodi
      **2012-13**
    - Miss Shreya Havanoor presented paper in National Level Seminar at B.K. College Chikodi and won **1st Prize**
      **2010-11**
    - Miss Manorama Powar secured **5th rank** to Karnatak University Dharwad in the year 2010
    - Miss Deepashri Kamat and Miss Vibha Kusugal won **2nd prize** in science exhibition model presentation competiition organized by Science and technology Government of Karnataka at J.S.S College Gokak
    - Mr. Sripad Joshi, Mr. Prasad Sarvota and Mr. Sushil Kataria secured 6th Place in Quiz competition at IIT, Bombay

**20. Seminars/ Conferences/ Workshops organized & the sources of funding (national/international) with details of outstanding participants, if any.**

| Sl. No. | Name of Seminar/ Conference/ Workshops | Year | Outstanding Participants | Source of Fund |
|---|---|---|---|---|
| 1 | Two day National Seminar on "Climate change and its impact on Biodiversity" | 30 & 31st Jan 2015 | 1. Shri V.N. Misale Senior Scientist-G, ISRO, Bengaluru<br>2. Dr. Prakash Diwan Former Director grade Scientist, ICT, Anurag Group of Institution, Hyderabad<br>3. Dr. Ramesh Kumar. M.R. Chief Scienstist-G CSIR-National Institute of Oceanography Goa<br>4. Dr. Niranjana chavan Professor, Dept of Botany, Shivaji University, Kolhapur<br>5. Dr. Laxmi Inamdar Chairman Dept. of Zoology Karnataka University Dharwad<br>6. Dr. T.C.Taranath Chairman, Dept of Botany, Karnataka University Dharwad | UGC |
| 2 | One Day Conference of Botany, Zoology & Biotechnology Teachers of Rani Channamma University , Belagavi & Karnatak University, Dharwad | 10th Apr 2011 | Dr. S. B. Dandin, Vice Chancellor, University of Horticultural Sciences, Bagalkot | Self |

**21. Student profile course-wise**

| Name of the course | Year | Applications received | Selected | | Pass percentage | |
|---|---|---|---|---|---|---|
| | | | Male | Female | Male | Female |
| B.Sc. | 2014-15*** | 20 | 11 | 09 | 45.45 | 88.89 |
| | 2013-14** | 24 | 06 | 18 | 100 | 100 |
| | 2012-13* | 26 | 06 | 16 | 85.71 | 94.12 |
| | 2011-12 | 16 | 09 | 07 | 100 | 100 |
| | 2010-11 | 29 | 08 | 21 | 96.5 | 95.23 |

*Results of V Sem. only.   ** Results of III Sem. only.   ** * Results of  I Sem. Only.

## 22. Diversity of Students

| Name of the Course | Year | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|---|---|---|---|---|---|
| Biotechnology | 2014-15 | 10.52 | 100 | - | - |
| | 2013-14 | 19.23 | 96.15 | 3.85 | - |
| | 2012-13 | 25.80 | 96.77 | 3.23 | - |
| | 2011-12 | 15.78 | 100 | - | - |
| | 2010-11 | 39.28 | 100 | - | - |

## 23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE & any other competitive examinations?

1. Miss. Manisha Sharma : Defence Service
2. Miss. Shilpa Birje : CSIR NET
3. Miss. Parveen Nadaf : KSLET

## 24. Student progression

| Student progression | Percentage against enrolled | | | | |
|---|---|---|---|---|---|
| | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 |
| UG to PG | 79.31 | 92.85 | 60.86 | 65.51 | 68.75 |
| PG to M.Phil. | - | - | - | - | - |
| PG to Ph.D. | - | - | 10.34 | 18.75 | - |
| Ph.D to Post-Doctoral | - | - | - | - | - |
| Employed • Campus selection • Other than campus selection | - | 26.08 | 10.34 | | |
| Entrepreneurs | 12.50 | | | | |

## 25. Diversity of staff

| Percentage of faculty who are graduates | |
|---|---|
| of the same parent university (parent University came into existence from 27-07-2010) | - |
| from other universities within the State | 100 |
| from other universities from other State | - |

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period

Nil

## 27. Present details about infrastructural facilities

### a. Library

- Departmental library    Books         : 75
                          Subject CD's  : 05

- Central library     Books     : 2971
                      Journals   : 10
                      Magazines : 05

**b.  Internet facility for staff and student**  : Yes
**c. Total number of class rooms**  : 02
**d.  Class rooms with ICT facility**  : 02
**e. Students' laboratories**  : 02
**f. Research laboratories**  : 01

**28.  Number of students of the department getting financial assistance from College**

| Type of financial assistant | Number of students getting financial assistance year wise | | | | |
|---|---|---|---|---|---|
| | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| Endowment cash prize | - | - | - | 03 | - |
| Government Scholarships | - | 05 | 05 | 04 | 07 |

**29.  Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

Yes, as per the need of the society and to make the students self employed, our department has made need assessment before introducing the certificate courses in Food & Nutritional Biotechnology and Plant Tissue Culture.

By consulting and collecting suggestions from farmers, food industrialists of local area, plant tissue culture centers and alumni, our department felt the necessity of introducing these certificate courses.

**30.  Does the department obtain feedback from**
**a.  faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?**

Yes, in the monthly meetings of the department requirements of the department, Curriculum aspects, syllabus upgradation, new teaching methodologies to be adopted, examination pattern are discussed. The draft syllabus for the programmes is sent to experts for opinion. Then modified draft syllabus placed before the BoS meeting for approval.

**b.  students on staff, curriculum as well as teaching-learning-evaluation and what is the response of department to the same?**

Yes, the feedback committee of the institute takes the feedback from students on staff & on teaching -learning evaluation. Short comings are noted & discussed with the concerned staff and suggestions are given for the improvement.

**c. alumni and employers on the programmes and what is the response of department to the same?**

Yes, during alumni meet suggestions on the curriculum is obtained & suggestions are discussed in the department meetings & recommended to the BoS.

**31. List the distinguished alumni of the department (maximum 10)**

| Sl. No. | Name of the Alumni | Address |
|---|---|---|
| 1 | Miss. Sampada Kallol | Research scholar University of Bern Institute of Biochemistry and Molecular Biology Buhlstrasse, 28 CH-3012 Bern Switzerland |
| 2 | Mr. Sanjay Mavnure | Research Associate Dupont Pioneer , Hydrabad |
| 3 | Mr. Milind Patil | Qaulity Control Chemist Cipla, Pune |
| 4 | Smt. Gouri Golsangi | Scientific Assistant, Karnataka Pollution control Board, Bengaluru |
| 5 | Miss. Shubha Gunaga | Research Assistant Indian Institute of Science, Bengaluru |
| 6 | Mr. Vinayak Nadgouda | Research Associate, Metahelix Lifesciences Pvt Ltd, TATA Enterprise, Bengaluru |
| 7 | Miss. Sampada Shanbhag | Associate Consultant Career Technology Private Ltd, Bengaluru |
| 8 | Mr. Vrushiketu.N.Kulkarni | Therapy Business Manager, Abbott India Ltd, Bellary |
| 9 | Miss. Manisha Sharma | Indian Army |
| 10 | Mr. M. A. Mujeeb | Research Scholar, Karnatak University Dharwad |
| 11 | Mr. Anand Darur | Proprietor Optimus Herbal Extracts, Belagavi |

**32. Give the details of student enrichment programmes (special lectures/ workshops / seminar) with external experts**

Special lectures are conducted in the department through departmental association activities. Distinguished academicians, experts and researchers interacted with the students

| Year | Date | Guest | Topic |
|---|---|---|---|
| 2014 | 4/08/14 | Dr. Shivaji Jadhav Scientist, Dr.Prabhakar Kore Basic Science Research centre, K.L.E University, Belagavi | Research opportunities in Molecular Biology and Biotechnology |
| | 29/12/14 | Dr.C.C.Gavimath, Special officer, Biofuels, I & D VTU, Belagavi | Biofuels |
| | 22/1/2015 | Prof. Vishnu. A. Kangralkar, Assistant Professor, Maratha Mandal college of Pharmacy, Belagavi | Nanomedicines |

| | | | |
|---|---|---|---|
| 2013-14 | 6/09/13 | Dr. Harsha.V.Hegde, Scientist Regional Medical Research Centre, Belagavi | Biotechnology in Herbal Research: Applications & Opportunities |
| | 11/10/13 | Dr.S.S.Jalalpure, Associate Proffesor, KLE Pharmacy College, Belagavi | Classification of crude drugs & Evaluation parameters of crude drugs |
| | 22/01/14 | Dr.S.V.Nikam, HOD of Biochemistry Belagavi Institute of Medical Sciences, Belagavi | Free radicals and antioxidants in health & diseases |
| | 13/02/14 | Prof. Rakesh.N.R, Dr. M.S. Sheshgiri College of Engg. & Tech. Belagavi | Bioinformatics |
| 2012-13 | 29/01/13 | Dr. N. S. Patil, KLE Hospital,Belagavi | In-vitro Fertilization |
| | 29/01/13 | Dr. M. B. Hiremath, KLE Hospital,Belagavi | Stem cell therapy |
| 2011-12 | 17/02/12 | Dr. H. N. Niranjanmurthy, Karnatak University, Dharwad | Agrobacterium mediated gene transfer |
| 2010-11 | 29/03/11 | Dr.Subarno Roy, Scientist 'D', Regional Medical Research Centre, Belagavi | DNA techniques used in medical research |

## 33. List the teaching methods adopted by the faculty for different programmes

- Experiments using Kits
- Video clippings and CDs
- Using Power Point Presentation
- Charts
- Chalk and Talk
- Conducting Study Tours and visiting research institutes and industries
- Group Discussion in practicals
- In-house Projects and assignments
- Use of smart board
- Question paper discussion
- Display of News paper clippings
- Science exhibition

## 34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

- Class room interaction
- Result analysis
- Continuous assessment through internal tests
- Remedial & Enrichment classes
- Mentor system

- Parent –Teachers meet
- Sending internal test marks and attendance to parents through SMS
- Encouraging students to take up research oriented projects
- Teaching through experimental method
- Practical demonstrations

## 35. Highlight the participation of students and faculty in extension activities.
- Cultivation of Biofule producing plants
- Awareness and detection of food adulteration
- Environmental awareness
- Haemoglobin testing
- Study tours, visiting research institutes

## 36. Give the details of "beyond syllabus scholarly activities" of the department
- Organizing Seminars
- Arranging Guest Lectures
- Conducting Study Tours
- Conducting Certificate Courses
- Guiding students in in-house research projects of students
- Participation of staff & students in awareness programmes
- Attending Seminars / Conferences/workshops/training programmes
- Conducting Quiz, Poster & Power Point Presentation competitions
- Encouraging the students to present papers in National level seminars and conferences
- Presentation of science models in exhibitions

## 37. State whether the programme/ department is accredited / graded by other agencies. Give details
Our department as a unit is not accredited. However our college as a whole is accredited and reaccredited by NAAC

## 38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department
**Strengths**
- Well established laboratories with advanced equipments
- MoU with industries
- Excellent results
- Curriculum  redesigned by introducing new topics like Bioinformatics, Nanotechnology, Agriculture Biotechnology and Medical Biotechnology
- Students  projects

### Weakness

- As it is unaided subject all expenses are to be borne by the management only

### Opportunities

- Establishing linkage with Biotechnology centers
- Strengthening of consultancy
- Motivating students to take up research activity
- Strengthening of departmental library

### Challenges

- To motivate the students to take up Biotechnology subject

**39. Future plans of the department**

- To conduct workshop on food adulteration
- To conduct workshop on drug adulteration

# Department of BCA & MCA

1.  **Name of the Department & its year of establishment**
    Bachelor of Computer Application (BCA) : 1999
    Master of Computer Application (MCA ) :  2012

2.  **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**
    - Under Graduate          :     BCA
    - Post Graduate           :     MCA
    - Certificate Course      :     Soft Skills
                                    Web Programming

3.  **Interdisciplinary courses and departments involved**
    - Mathematics Department
    - English Department
    - Commerce Department, Lingaraj College, Belagavi
    - K.L.E Law College, Belagavi
    - Computer Science Department

4.  **Annual/ semester/choice based credit system**
    - BCA               :  Semester system
    - MCA               :  CBCS
    - Certificate Course   : Annual System

5.  **Participation of the department in the courses offered by other departments**
    - B.Sc.             : Computer Application for IV Semesters
    - M.Sc.
      Physics           : Computer Programming Languages
      Mathematics       : Computer Programming Languages

6.  **Number of teaching posts sanctioned and filled (Professors/Associate Professors/ Asst. Professors):**
    **UG & PG**

    | 2014-2015 | Sanctioned | Filled |
    |---|---|---|
    | Professors | | - |
    | Associate Professors | 7 | 1 |
    | Asst. Professors | | 6 |

## 7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

| Name | Qualification | Designation | Specialization | No. of Years of Experience |
|---|---|---|---|---|
| Prof. S. Kotrappa | BE, MS, M.Tech (CSE), [Ph.D] | Asso. Prof. | Computer Science & Engineering | 29 |
| Prof. Sheela Mense | BE, M.Tech (CSE) | Asst.Prof. | Computer Science & Engineering | 11 |
| Prof. Jalaja Udoshi | MCA, M.Phil | Asst.Prof. | Computer Application | 8 |
| Prof. Shirin Athani | MCA | Asst.Prof. | Computer Application | 4 |
| Prof. Shivi Dixit | MCA | Asst.Prof. | Computer Application | 4 |
| Prof. Arati Patil | BE (CS) [M.Tech (CSE)] | Asst.Prof. | Computer Science & Engineering | 7 |
| Prof. Shweta. J. Sidnal | BE (CS) [M.Tech (CSE)] | Asst.Prof. | Computer Science & Engineering | 1 |

## 8. Percentage of classes taken by temporary faculty-programme-wise information

| Program/Semester | I | II |
|---|---|---|
| BCA | 40% | 40% |

## 9. Programme-wise Student Teacher Ratio

| Program | Student: Teacher Ratio |
|---|---|
| BCA | 36:1 |
| MCA | 8:1 |

## 10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

| Program | Technical Staff | | Administrative Staff | |
|---|---|---|---|---|
| | Sanctioned | Filled | Sanctioned | Filled |
| BCA | 1 | 1 | 1 | 1 |
| MCA | 1 | 1 | 1 | 1 |

**11. Number of faculty with ongoing projects from**
  a) National : -
  b) International funding agencies : -
  c) Total grants received. : -

**12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total** grants received : Nil

**13. Research facility / centre with**
- state recognition : -
- national recognition : -
- international recognition : -
- institutional Research centre : 01

All the research activities of the department are monitored by the research centre of the institute

**14. Publications:**
- number of papers published in peer reviewed journals (national / international) : 09
- Monographs : -
- Chapter(s) in Books : -
- Editing Books : -
- Books with ISBN numbers with details of publishers : -
- number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : -
- Citation Index – range / average : -
- SNIP : -
- SJR : -
- Impact factor – range / average : 0.825
- h-index : >1

**15. Details of patents and income generated : -**

**16. Areas of consultancy and income generated :**
- Conducting /Organizing
  - Computer literacy program for government Officers
  - Tally training for non-teaching staff of KLE Society Colleges.
  - Computer Literacy Program for Teaching & Non Teaching staff of our institute

**Income generated: Honorary**

**17. Faculty recharging strategies : -**
- Organizing Workshop/Conference/Seminar/National IT Fest - Annual Events
- Paper presentation/publication of research articles

- Guiding UG/PG projects
- Research literature survey
- Arranging Faculty Development Program [FDP] on topics like:
  - Neuro Linguistic Programming (NLP)
  - Database Administration (DBA)
  - Web Programming
  - Cloud  Computing

**18.    Student projects**
- Percentage of students who have done in-house projects including inter-departmental:
- BCA Final Year : 100%

| Year | Number of Projects | Percentage |
|------|-------------------|------------|
| 2014-15 | 59 | 100 |
| 2013-14 | 80 | 100 |
| 2012-13 | 76 | 100 |
| 2011-12 | 39 | 100 |
| 2010-11 | 79 | 100 |

- Percentage of students doing projects in collaboration with industries / institutes:
- MCA Final Year : 100%

| Year | Number of Projects | Percentage |
|------|-------------------|------------|
| 2014-15 | 02 | 100 |

**19.    Awards / recognitions received at the national and international level by**
- Faculty                                      : -
- Doctoral / post doctoral fellows        : -
- Students                                  :

BCA Students Achievements

| Year | Students Name | Award | Fest |
|------|--------------|-------|------|
| 2010 -2011 | Ms. Sabah Takked. Mr. Shubham Shahpurkar | 1st Prize in Quiz | ADVAITH 2011 National Level Fest, Gogte Institute of Technology's MBA College , Belagavi |
| | Ms. Neha Garde. Ms. Madhuri Nemgoudar | 1st Prize in New Product Development | |
| | Mr. Rajesh Ghooli | 2nd Prize in Web Designing | ALCHEMY 2011 National Level IT fest, People's Tree College of BCA Belagavi |
| | Ms. Swati Gavadi | 2nd Prize in Marketing | |
| | Ms. Akshata Kulkarni Ms. Aakanksha Uchagaonkar | 2nd Prize in RAD | |

| | | | INFERNO National Level IT Fest 2011 B V. BHOOMREDDI COLLEGE OF MBA, Hubbali |
|---|---|---|---|
| | Ms. Sabah Takked. Mr. Nayeem Savanur. | 2nd Prize in Communication | INFERNO National Level IT Fest 2011 B V. BHOOMREDDI COLLEGE OF MBA, Hubbali |
| | Ms. Sabah Takked | 1st Prize in Best Manager | MANTHAN 2011 National Level IT Fest K.L.E's COLLEGE OF MBA Belagavi |
| 2013 -2014 | Ms. Aditi Pareek Mr. Sachin Parande | 1st Prize in Tech –Coding | EVOGEN 4.0 National Level IT Fest Gogte College of commerce Belagavi |
| | Mr. Jeevan Desai | 1st Prize in Quiz | |
| | Mr. Ahmayank Awasti | 2nd Prize in Best Manager | |
| | Mr. Sachin Pawar | 1st Prize in Gaming | |
| | Mr. Ahmayank Awasthi | 2nd Prize in Best Manager | ALCHEMY National Level IT Fest People's Tree College Of BCA Belagavi |
| | Mr. Sachin Pawar | 1st Prize in LAN Gaming | |
| | Team Event | 2nd Prize in Dance | |
| | Mr. Aftab Jamadar Mr. Jeevan Desai | 2nd Prize in Quiz | ETURNUS 2014 National Level IT Fest Bhartesh College Belagavi |
| | Mr. Sachin Pawar | 1st Prize in Gaming | |
| | Mr. Ahmayank Awasthi | 1st Prize in Best Manager | |
| | Mr. Sachin Parande Ms. Masira K. | 2nd Prize in Analyzing | |
| 2011 -2012 | Mr. Kiran Kumar Patil | University Blue in Basket Ball | Rani Channamma University, Belagavi |
| | Mr Shebaaz Bepari | University Blue in Hockey | |
| 2012 -2013 | Mr. Kiran Kumar Patil | University Blue in Basket Ball | |
| | Mr. Pavan Mane | University Blue in Body Building | |
| | Mr Shebaaz Bepari | University Blue in Hockey | |
| 2013 -2014 | Mr Shebaaz Bepari | University Blue in Hockey | |
| | Mr. Umiyan Sayeed | University Blue in Basket Ball | |

MCA Students Achievements

| Year | Students Name | Award | Fest |
|---|---|---|---|
| 2013 - 2014 | Mr. Basanagouda D Patil Mr. Iranna D Sollapuri | 1st prize in Lense Arc | INFOSTAV 2K14 JSS Mahavidyapeetha Sri Jayachamarajendr, College of Engineering, Mysore |
| | Mr. Abhilash A D'souza | 2nd prize in Techno Buzz | |
| | Mr. Kuldeep Singh Shekhawat | 2nd prize in Master M | |
| | Mr. Raghavendrakumar | 2nd prize in witch Hunt | |
| | Mr. Iranna .D. Sollapuri | 2nd prize Idea Generation | |
| | Mr. Danish Bagewadi Mr. Basanagouda D Patil | 2nd prize in Game Theory | |
| | Mr. Basanagouda D Patil Ms. Meenakshi S Nargund | 2nd prize in Movie Making | Advitiya14 K.L.E Society's, K.L.E Institute of Technology (Department of MCA), Hubli-30 |
| | Mr. Abhilash A D'souza | 2nd prize in Best Manager | |
| | Mr. Kuldeep Singh Shekhawat | 1st prize in Gaming | |

**20. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.**

**All the events are self funded**

### Year 2010-2011

| Date | Seminars/ Conferences/Workshops | Resource Person |
|---|---|---|
| **Conference** | | |
| 22nd and 23rd October 2010. | Two –day national level IT Fest "IT ERA 2K10 Green ICT" | Students from various states |
| | Topics & Resource Person for ITERA | |
| | "Evolution of Mobile Communications and 3G" | Mr. Vishwanath S Pattenshetti Senior System Analyst, IBM India Pvt. Ltd. Belagavi. |
| | "Cloud Computing and its applications" | Prof Ravindra Dastikop, SDMCET Dharwad. |
| | "Computer and Management for Entrepreneurship Development" | Dr. D. H. Rao Director Jain Group of Industries Belagavi |
| **Seminar** | | |
| 10th-Jan-2011. | "Importance of Soft Skills" | Dr. Poornima Charantimath, IMER Belagavi |
| 15th-Jan-2011. | "Guidelines for University Examinations " | Shri S. Kotrappa, Principal BCA , RLS Institute Belagavi |
| **Workshop** | | |
| 17th, 18th and 19th January 2011 | 3- day workshop on " Promotion of Open Source Software and Linux " | Swapnil Patnekar ETH1 Network Solutions Belagavi. |
| **Training** | | |
| 1st-August-2011 to 31st-August-2011 | One Month Java Training for BCA V semester Students | Dr. Ameet Patil & Mr. Manjunath Hadli, Bredboard Belagavi |

### Year 2011-2012

| Date | Seminars/ Conferences/Workshops | Resource Person |
|---|---|---|
| **Conference** | | |
| 21st and 22nd October 2011 | 2 day's National Level IT Fest **"IT ERA 2K 11, LAMP"** | Students from various states |
| | Topics & Resource Person for ITERA | |
| | "Career Prospects at WIPRO" | Mr. M.K.Banga, General Manager, WIPRO, Bengaluru |
| | "Cloud Computing and its applications" | Prof Ravindra Dastikop, SDMCET Dharwad. |
| | "Awareness of Higher Education" | Mrs. Swati Parikhi, IMS, Belagavi. |
| Workshop | | |
| 6th-10th September 2011 | 5 –day's workshop on Oracle | Prof. Meghana Patil, Faculty VTU University Belagavi. |

| 17th March 2012 | 1- day workshop on "Promotion of Open Source Software and Linux" Training | Swapnil Patnekar ETH1 Network Solutions Belagavi |
|---|---|---|

## Year 2012-2013

| Date | Seminars/ Conferences/Workshops | Resource Person |
|---|---|---|
| **Conference** | | |
| 6th and 7th October 2012 | 2 day's National Level IT Fest "IT ERA 2K 12, Innovation Beyond Fanatacy" | Students from various states |
| **Topics & Resource Person for ITERA** | | |
| | Chasing your dreams, a technical perspective | Shri. Sunil Koshy Vibhinna Creation, Bengaluru |
| | Embedded Systems | Dr. Ameet Patil , Spandan Software Pvt. Ltd, Belagavi |
| | Interactions with students on "Higher Education , Latest Trends in Technology"- | Dr. Basavaraj S. Anami Principal, KLE's Institute of Technology Hubli, Prof. S. Kotrappa Principal KLE's College of BCA R.L.Science Institute Belagavi. |
| **Seminar** | | |
| 22nd Dec 2012 | Seminar on "Career Opportunities & Higher Studies in Embedded Systems" for all the BCA Students | Dr. Subba Reddy Principal Research Scientist High Voltage Lab, Dept of Electrical Engineering, II Sc, Bengaluru. Dr. T.V. Prabhakar Senior Scientific Officer, Dept of Electronic System Eng. II Sc, Bengaluru. |
| 8th Feb 2013 | Seminar on "Careers in IT" | Mr. Ajit Patil IIHT, Belagavi |
| 22nd Feb 2013 | Seminar on "Careers in Web Designing" | Mr. Sandeep Google Developer Group Dotcord Belagavi |
| 1st March 2013 | Seminar on "Linux and FOSS" | Mr. Swapneel Patnekar ETH1 Network Solutions, Belagavi |
| **Workshop** | | |
| 23rd Sept. 2012. | One day workshop for faculty on "Neuro Lingustic Programming" | Dr. D.H. Rao, Director Jain Group of Institutes |

## Year 2013-2014

| Date | Seminars/ Conferences/Workshops | Resource Person |
|---|---|---|
| | **Conference** | |
| 4th and 5th October 2013 | 2 day's National Level IT Fest "IT ERA 2K 13, Loon for all" on 4th and 5th October 2013 | Students from various states |
| | **Topics & Resource Person for ITERA** | |
| | Goal Setting & Mind Power Magic Using NLP | Mr.Ramani Venkat, Director, Varnaaz Leader Factory, Bengaluru. |
| | NLP Clowns and NLP Geniuses | Ms. A.Preethi, Learning & Development Officer, School of Excellence, Chennai. |
| | Cloud Development & Career Path. | Mr.Pravin Hanchinal, Co-founder, CEO INSPIRE-Groups |
| | Google Technologies, Wow and How!! – | Mr.Taha M Asadullah Google Developers, Hubballi |
| | Computer Virtualization and Cloud Computing | Mr.Ajit Patil, IIHT, Belagavi |
| | **Workshop** | |
| 4th, 5th and 6th Sept. 2013 | Workshop on Database Management System and Oracle for BCA V Semester Students | Prof. Meghana Patil, VTU , Belagavi |
| 10-September-2013. | Workshop on Web Designing | Mr Sidharath Deshpande, Google Developer Group Dotcord Belagavi |
| 20th Feb 2014 | One day workshop on **"Neuro Linguistic Program – Superman in you"** for BCA students | Mr Ramani Venkat Director, Varnaaz Leader Factory, Bengaluru. |
| 3rd and 4th March 2014 | Two day workshop on "Cloud **Computing and Web Development"** for BCA Students | Mr.Pravin Hanchinal, Co-founder, CEO INSPIRE-Groups. Dharwad |
| August month week-end (2nd, 3rd, 9th, 10th, 16th, 17th, 23rd, 24th, 30th & 31st) | Workshop on **MSSQL** | Mr. Amit Patil, Essilor India Pvt. Ltd. Bengaluru |
| 5th and 6th April 2014. | Software Testing workshop | Shri Srinivasan Desikan, Senior Architect HP Bengaluru |
| 7th Jan 2014 | One day **"Brain Marathon "** on for all for the BCA Semester students | Mr. Sameer Majali KLES, Placement Officer |

## 21. Student profile course-wise:

### Course: BCA

| Year | Application received | Selected | | Pass Percentage | |
|---|---|---|---|---|---|
| | | M | F | M | F |
| 2010-11 | 79 | 44 | 35 | 90.9 | 94.2 |
| 2011-12 | 80 | 41 | 39 | 97.5 | 95.0 |
| 2012-13 | 76 | 45 | 31 | 93.7 | 100*** |
| 2013-14 | 84 | 36 | 48 | 86.11 | 93.7** |
| 2014-15 | 35 | 15 | 20 | 53.3 | 85.0* |
| *** V Semester Result<br>** III Semester Result<br>* I Semester Result | | | | | |

### Course: MCA

| Year | Application received | Selected | | Pass Percentage | |
|---|---|---|---|---|---|
| | | M | F | M | F |
| 2012-13 | 02 | 00 | 02 | - | 100*** |
| 2013-14 | 11 | 06 | 05 | 83 | 100** |
| 2014-15 | 11 | 04 | 07 | 100 | 100* |
| *** V Semester Result ** III Semester Result * I Semester Result | | | | | |

## 22. Diversity of Students

### Course: BCA

| Year | Name of the Course | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|---|---|---|---|---|---|
| 2010-11 | BCA I | - | 88 | 12 | - |
| 2011-12 | BCA I | - | 84 | 16 | - |
| 2012-13 | BCA I | - | 93 | 7 | - |
| 2013-14 | BCA I | - | 89 | 11 | - |
| 2014-15 | BCA I | - | 89 | 11 | - |

### Course: MCA

| Year | Name of the Course | % of students from the college | % of students from the state | % of students from other States | % of students from other countries |
|---|---|---|---|---|---|
| 2012-13 | MCA I | - | 100 | - | - |
| 2013-14 | MCA I | 45 | 91 | 09 | - |
| 2014-15 | MCA I | 27 | 82 | 18 | - |

**23. How many students have cleared**

Civil Services : -
Defense Services : 03
    1. Lt. Prasad R Deshpande.
    2. Sub Lt. Chamm Thappa.
    3. Sub Lt. Aniket Nikalje.
NET, SLET, GATE : -

**24. Student progression**

| Student Progression | Percentage against enrolled | | | |
|---|---|---|---|---|
| | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| UG to PG | 74 | 75 | 70 | 69 |
| PG to M.Phil. | - | - | - | - |
| PG to Ph.D. | - | - | - | - |
| Ph.D. to Post-Doctoral | - | - | - | - |
| Employed <br> • Campus selection <br> • Other than campus recruitment | 25 <br> - | 24 <br> - | 4 <br> - | 44 <br> - |
| Entrepreneurs | - | - | - | - |

**25. Diversity of staff**

| of the same university (parent University came into existence from 27-07-2010) | 2014-15 R.C.U |
|---|---|
| Same parent university | - |
| Other universities within the State | **85** |
| Other universities from other States | **15** |

**26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period. : -**

**27. Present details about infrastructural facilities**

a) Library
    Total No. of Books : 1980
    Total No. of CD's : 35
    Total No. of Project : 105
    Total No. of Magzine : 04
b) Internet facilities for staff and students :Yes
c) Total number of class rooms : 04
d) Class rooms with ICT facility : 04
e) Students' laboratories : 03
    Computer Lab : 02
    Hardware Lab : 01

f)  Research laboratories : 01
g)  Incubation centre : 01

**28.  Number of students of the department getting financial assistance from College.**

| Fund Name | Student | Amount |
|-----------|---------|--------|
| RLSI Nidhi | Ms Ashwini Chougale | ₹1000/- |

**29.  Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.**

- Yes, for starting of the new Course a survey among the students, alumni & parents was conducted and after elaborate discussions with the subject experts and the management the MCA & certificate course were started.

**30.  Does the department obtain feedback from**

a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes

- By organizing periodical meetings, sharing ideas on curriculum teaching: - learning and evaluation strategies and applying the same.
- The drafted syllabus is sent to experts for seeking opinion then modified draft syllabus is placed before BoS, Academic Council and Governing Body for approval.

b. students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Yes, feedbacks are taken from students on regular basis. Feedbacks are analyzed and suitable measures are taken for further improvement.

c. alumni and employers on the programmes and what is the response of the department to the same?

Yes, feedbacks are taken from alumni and corrective measures are incorporated in framing the curriculum in consultation with the BOS, Academic Council and Governing Body for approval.

**31.  List the distinguished alumni of the department (maximum 10)**

| Sl. No. | Name | Address |
|---------|------|---------|
| 1 | Mr. Pavan Kulkarni<br>Technical Consultant at KPIT, St. Louis, USA | Anand.niwas,opp Police Chowk Bhagyanagar, Belagavi |
| 2 | Mr. Shreyas Patil<br>Asst. Professor at University of Glasgow | 103, Priyadarshani, French colony, Shivaji Park, Kolhapur |
| 3 | Ms. Roohi Mulla<br>Wipro Technologies<br>2038 Coolidge Highway, apt 205, Troy, Michigan-48084, USA | "Hasan Building" 2nd Stage, Hanuman Nagar, Belagavi |

| 4 | Ms. Pranjali Pai<br>Test Head at Zensar Technologies PUNE | Kumbharda A/P Dagargali, Khanapur, 52344 |
|---|---|---|
| 5 | Ms. Shilpa Sattigeri<br>Wipro, Bengaluru | H.No. 477/2, 4th cross, Bharat Nagar, Vadagaon, Belagavi |
| 6 | Lieutenant Prasad Deshpande<br>Indian Navy, Port Blair, Andman Nicobar | 18/2B sainik nagar, Laxmi tek , Camp, Belagavi |
| 7 | Sub- Lieutenant Chamm Kumari Thappa<br>Indian Navy, Mumbai | Blding P-28  Room No :13<br>INS Hamla, Malad West<br>Mumbai-400095<br>Maharastra |
| 8 | Sub- Lieutenant, Aniket Nikalje<br>Indian Navy, Lakshdweep | Badiger House , Sanik Nagar, Laxmi Tek , Belagavi |
| 9 | Mr. Amit Patil<br>DBA at Essilor India Pvt Ltd Bengaluru | H.No. 53/1, Parvati Niwas, Shivaji Nagar, Belagavi |
| 10 | Mr. Sudharshan Shende<br>Senior Software Engineer, Mind Tree, Bengaluru | Malikarjun Complex, 2nd Cross, Bhagyanagar, Belagavi |

**32. Give details of student enrichment programmes (special lectures / workshops / seminar) with external experts.**

| Year | Guest Name | Designation | Topic Covered |
|---|---|---|---|
| 2012 | Shri  Yukestanand | Swamiji Swami Vivekanand Ashram | "Manasabhayna" |
| 2012 | Dr. D.H. Rao | Director & Principal Jain Group of Institutes | "Neuro Lingustic Programming" |
| 2012 | Dr. Subba Reddy | Principal Research Scientist High Voltage Lab, Dept of Electrical Engineering II Sc, Bengaluru. | "Career Opportunities & Higher Studies in Embedded Systems" |
| 2012 | Dr. T.V. Prabhakar | Senior Scientific Officer, Dept of Electronic System Eng. II Sc, Bengaluru. | |
| 2013. | Prof. Sameer Majali | Placement Officer KLE Society, Belagavi | "Brain Marathon" |
| 2013 | Mr. Ajit Patil | DBA at Essilor India Pvt Ltd Bengaluru | "Careers in IT" |
| 2013 | Mr. Sandeep Hedge Mr. Anvith K.S | Co-organizer at Google Developers Group Belagavi | "Careers in Web Designing" |
| 2013 | Mr. Swapneel Patnekar | Founder ETH1 Network Solutions Belagavi | "Linux and FOSS" |
| 2014 | Prof. Sameer Majali | Placement Officer KLE Society, Belagavi | "Brain Marathon " |

**33. List the teaching methods adopted by the faculty for different programmes.**
- Chalk n Talk
- ICT Based Teaching
- Seminars
- Workshop
- IT Fest
- Projects
- Simulation
- Audio n Video
- Group Discussion

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**
- Feedback
- Continuous Evaluations
- Student Counseling
- Seminars
- Mentoring System
- Result Analysis
- Online /Web based Attendance
- Parent Teachers meet

**35. Highlight the participation of students and faculty in extension activities.**
- Participating in:
  - Swach Abhiyan
  - Ekta Abhiyan
  - Women Empowerment
- Donation at Mahesh Foundation (NGO)  for HIV infected children
- Blood Donation

**36. Give details of "beyond syllabus scholarly activities" of the department.**
- Works/Seminars/Conferences in relevant topics in IT Industry
- Arrange Guest Lectures
- Extension activities
- Certificate  Courses
- Publishing papers in National/International Publications
- IT Fest
- Participation in Conferences
- Project Guides

### 37. State whether the programme/ department is accredited/ graded by other agencies. Give details.

Department as a unit is not accredited individually. However the college as a whole is accredited and re-accredited by NAAC.

### 38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strength:
- State-of-Art Infrastructure
- Well-Equipped   Computer Laboratory
- Experienced faculty
- Annual National Level IT Fest
- Research publications
- Brain Marathon events
- Interaction with IT professionals
- National/International Publications
- Exposure to Free Open Source Software(FOSS)
- Data Repository

Weakness:
- Global recession in IT Industry
- More number of  Engineering Colleges
- Students are fascinated to Engineering than BCA

Opportunities:
- IT Evolution – Creates abundant opportunities for career growth
- College situated in Heart of City

Challenges:
- Getting highly motivated students

### 39. Future plans of the department.
- Establishment of R & D Cell to enable more research activities
- In-house apprenticeship training to develop students IT skills (Incubation Centers)
- Seeking financial assistance from funding agencies

# Department of English

1. **Name of the Department and its year of establishment**
   Name of the Department     : English
   Year of Establishment      : 1935

2. **Names of Programmes / Courses offered (UG,PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

   **Name of Programme**       : B.Sc
   **Certificate Courses offered** : Communication Skills in English
                                     Advanced Communication Skills in
                                     English

3. **Interdisciplinary courses and the departments involved**
   NIL

4. **Annual/ semester/choice based credit system**
   **Semester system**         : UG
   **Annual System**           : Certificate courses

5. **Participation of the department in the courses offered by other departments**
   - Participation in PG programme

6. **Number of teaching posts sanctioned and filled( Professors/ Associate Professors/Asst.Professors)**

   |                       | Sanctioned | Filled |
   |-----------------------|------------|--------|
   | Professors            |            | -      |
   | Associate Professors  | 02         | -      |
   | Asst. Professors      |            | 02     |

7. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. Etc.,)**

   | Name | Qualification | Designation | Specialization | No. of years Experience |
   |------|---------------|-------------|----------------|-------------------------|
   | Shri. H.D. Mushreef | M.A. M.Phil. | Asst. Professor | Literature | 39 |
   | Smt. P.V. Arutagi | M.A(English), M.A.(Education) .B.Ed | Asst. Prof. | English Language Teaching | 04 |

8. **Percentage of classes taken by temporary faculty – programme-wise information**

UG Programme

| Year | Classes taken |
|------|---------------|
| 2014-15 | 100 |
| 2013-14 | 100 |
| 2012-13 | 50 |
| 2011-12 | 50 |
| 2010-11 | 50 |

9. **Programme-wise Student Teacher ratio**

UG Programme

| Year | Students-Teacher Ratio |
|------|------------------------|
| 2014-15 | 281:1 |
| 2013-14 | 274:1 |
| 2012-13 | 232:1 |
| 2011-12 | 224:1 |
| 2010-11 | 265:1 |

10. **Number of academic support staff (technical) and administrative staff: sanctioned and filled**

NIL

11. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise**

NIL

12. **Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc.; total grants received**

NIL

13. **Research facility /centre with**
   - state recognition : -
   - national recognition : -
   - international recognition : -
   - research centre of the institute : one

14. **Publications:**

number of papers published in peer reviewed journals (national / international)
   - Monographs : -
   - Chapter in Books : -
   - Books Edited : -
   - Books with ISBN/ISSN numbers with details of publishers : -
   - Citation Index : -

- SNIP                    :     -
- SJR                     :     -
- Impact factor           :     -
- h-index                 :     -

## 15.  Details of patents and income generated
NIL

## 16.  Areas of consultancy and income generated

- **Areas of consultancy**    **:** Drafting the letters
                              :  Corrections of Major/Minor Research
                                 Project reports
                              : Translation and correction service
                                 offered to Police Department

  **Income generated**        **:** Honorary

## 17.  Faculty recharging strategies:
- e-journal, e-library, e-books, Referring Books
- Attending Seminars and Workshops
- Presentation of Papers in National and International Seminar
- Browsing Educational Websites
- Group Discussion

## 18.  Student projects:
- percentage of students who have done in-house projects including inter departmental:        5%
- percentage of students doing projects in collaboration with industries/institutes:        NIL

## 19.  Awards/ recognitions received at the national and international level by
- Faculty                       : NIL
- Doctoral/Post doctoral fellows  : NIL
- Students                      : NIL

## 20.  Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants,if any.
NIL

### 21. Student profile course- wise:

UG Programme

| Name of the course | Year | Applications received | Selected | | Pass percentage | |
|---|---|---|---|---|---|---|
| | | | Male | Female | Male | Female |
| B.Sc. | 2014-15 | 301 | 105 | 196 | 96.70 | 99.46 |
| | 2013-14 | 300 | 112 | 188 | 100 | 100 |
| | 2012-13 | 296 | 113 | 183 | 100 | 100 |
| | 2011-12 | 207 | 84 | 123 | 100 | 100 |
| | 2010-11 | 281 | 115 | 166 | 100 | 100 |

### 22. Diversity of Students

| Name of the course | Year | % of students from the college | % of students from the state | % of students from other states | % of students from other countries |
|---|---|---|---|---|---|
| B.Sc. | 2014-15 | 19 | 99.81 | 0.19 | - |
| | 2013-14 | 29 | 99.9 | 0.1 | - |
| | 2012-13 | 27 | 99.87 | 0.13 | - |
| | 2011-12 | 31 | 99.04 | 0.96 | - |
| | 2010-11 | 27 | 99.83 | 0.17 | - |

### 23. How many students have cleared Civil Services, Defense Services, NET,SLET,GATE and any other competitive examinations?

- Miss. Tanuja Bajantri has passed GATE exam in 2013
- Miss. Asma Ganachari has passed SLET exam in 2013
- Mr.Shuklambar Pattar has joined Defense Services in the year 2012
- Manisha Sharma (SSB Cleared)

### 24. Students progression

| Student progression | Percentage against enrolled | | | | |
|---|---|---|---|---|---|
| | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| UG to PG | | 12.33 | 16.55 | 19.32 | 3.89 |
| PG to M.Phil. | | - | - | - | - |
| PG to Ph.D. | | - | - | - | - |
| Ph.D. to Post-Doctoral | | - | - | - | - |
| Employed <br> • Campus selection <br> • Other than campus recruitment | | 17.66 <br> - | 6.75 <br> 1.01 | 12.56 <br> - | 4.27 <br> 3.20 |
| Entrepreneurs | Anand Darur, Autonagar Belagavi <br> Mallikarjun Wali, Tissue culture, Nidasoshi <br> Yogita S Joshi , Medicals Belagavi <br> Rudrappa Godageri, Tata Solar, Belagavi | | | | |

## 25. Diversity of staff

| Percentage of faculty who are graduates | |
|---|---|
| of the same university (parent University came into existence from 27-07-2010) | - |
| from other university within the State | 100 |
| from other university from other States | - |

## 26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

NIL

## 27. Present details about infrastructural facilities.

**a) Library**
**Departmental Library Books** **:** 90
**Central Library Books** : 1467
**b) Internet facilities for staff and students : 01**
**c) Total Number of class rooms : 06**
**d) Class rooms with ICT facility : All classrooms**
**e) Students' laboratories : -**
**f) Research Laboratories : -**

## 28. Number of students of the department getting financial assistance from College.

| Financial assistance | Number of students getting Financial assistance | | | | |
|---|---|---|---|---|---|
| | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| Endowment cash Prize | - | 17 | 11 | 10 | 10 |
| RLSI Nidhi | 15 | 13 | 22 | 18 | 15 |
| Student Aid Fund | - | - | 33 | 33 | 15 |
| K.S.S.W | - | - | 33 | 33 | 15 |

## 29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Yes, in the light of changing needs of the society and to make students self employed department makes assessment exercise before the development of new programme and revision in the curriculum with-

- Feedback from Alumni and parents
- Interaction with Academic Peers and Industrialist, Alumni and Experts

Accordingly, started two certificate courses:

- Certificate course in Communication Skills in English
- Advanced Certificate Course in Communication Skills in English

## 30. Does the department obtain feedback from

### a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the dept utilize it?

Yes, the department obtains feed-back from the faculty on curricular as well as teaching-learning and evaluation. If the faculty members would like to make changes in the curriculum then the topics which have to be deleted and the topics to be included will be fully discussed and incorporated in the BOS meetings. After the approval from the BOS the topics that are incorporated are put into practice.

### b) students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Yes, feedback procured from the students on staff, curriculum as well as teaching-learning and evaluation, is taken into account. After several deliberations the same are brought to the notice of the BOS. If any changes, these are incorporated in the curriculum and put into practice.

### c) alumni and employers on the programmes and what is the response of the department to the same?

Yes, in the alumni meeting the curriculum, teaching, learning process and evaluation are discussed and if any suggestions are made then as per the procedure the same would be implemented.

## 31. List the distinguished alumni of the department (maximum 10)

| Sl.No. | Name of the Alumni | Prominent position | Place |
|--------|--------------------|--------------------|-------|
| 1 | Dr.M.B.Udoshi | Doctor, Newyork | USA |
| 2 | Dr.K.D.Nadaf | Doctor, Newyork | USA |
| 3 | Shri. Sanjay Mavanure | Research and Development officer | Hyderabad |
| 4 | Miss. Manisha Sharma | Lieutenant, Indian Army | New Delhi |
| 5 | Shri.H.S.Patil | Former KPSC Member | Bengaluru |
| 6 | Brig. Devayya M.A. | Indian Army | Kodagu |
| 7 | Shri.S.I.Vijapure | CFTRI | Mysore |
| 8 | Shri.S.C.Dalawai Rtd. | Additional Commissioner of Commercial Taxes | Belagavi |
| 9 | Shri.D.B.Inamdar | MLA, Former Minister, Government of Karnataka | Belagavi |
| 10 | Dr. S.B.Kulkarni | Chairman Indian Red Cross Society | Belagavi |

## 32. Give details of students enrichment programmes (special lectures/workshop/seminar) with external experts.

NIL

## 33. List the teaching methods adopted by the faculty for different programmes.

- Chalk and Talk
- ICT based
- Interaction
- Group discussion
- Assignments
- Projects

**34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?**
- Excellent results
- Continuous internal assessment
- Monitoring the Attendance
- Mentor system
- Seminars
- Assignments
- Teaching Plans
- Teaching Schedules
- Counseling of the Students

**35. Highlight the participation of students and faculty in extension activities.**
- Our volunteers participated in Voting Awareness rally on 25-01-2014.
- On 16-02-2014 a rally on AIDS Awareness was arranged at Basavankol Village.
- Rally on Voluntary Blood Donation Awareness Day was arranged on 01-10-2013
- Rally on International Non Violence day on 02-10-2013
- A rally on AIDS awareness was arranged on 01-12-2013

**36. Give details of "beyond syllabus scholarly activities" of the department.**
- Language Translation service offered to the public
- Language Translation and correction services offered to the Police Department
- Staff and students attending and presenting papers in National Seminar
- Projects

**37. State whether the programme / department is accredited/graded by other agencies. Give details.**
Department as a unit is not accredited individually. However the college as a whole is accredited and re-accredited by NAAC.

**38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**
Strengths:
- Excellent results
- Guiding the students in creative writings
- Introduction of Certificate Courses
- Guidance to the aspirants of civil services

- Peaceful environment and good infrastructure
- Need based curriculum

Weakness:
- Students with less proficiency in communication skills
- Less number of students willing to join administrative services

Opportunities:
- Imparting communication skills to the students with rural background
- Train the students to prepare for competitive examinations

Challenges:
- Preparing the students to join the corporate sectors and industries
- To provide ample opportunity to improve the students writing skills

## 39. Future plans of the department.
- To inspire and encourage the students to take up project work in various subjects
- To motivate consultancy services in translation

# Department of Kannada

1. Name of the Department and its year of establishment
   Name of the Department        : Kannada
   Year of Establishment         : 1935

2. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D.,
   Integrated Masters; Integrated Ph.D., etc.)
   Names of Programmes  :  UG- B.Sc

3. Names of Interdisciplinary courses and the departments involved :
   NIL

4. Annual/ semester/choice based credit system
   Semester system               : UG

5. Participation of the department in the courses offered by other
   departments :
   NIL

6. Number of teaching posts sanctioned and filled
   (Professor/Associate/Asst.Professor)

   |                      | Sanctioned | Filled |
   |----------------------|------------|--------|
   | Professor            |            | -      |
   | Associate Professor  | 01         |        |
   | Asst.Professor       |            | 01     |

7. Faculty profile with name, qualification, designation, specialization,
   (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

   | Name | Qualification | Designation | Specialization | No. of years Experience |
   |------|---------------|-------------|----------------|-------------------------|
   | Shri S.B.Taradale | M.A. M.Phil | Asst. prof. | Entire Kannada | 17 |

8. Percentage of classes taken by temporary faculty-programme-wise
   information
   UG- programme

   | Year | Classes taken |
   |---------|---------------|
   | 2014-15 | 100 |
   | 2013-14 | 100 |
   | 2012-13 | 100 |
   | 2011-12 | Nil |
   | 2010-11 | NIL |

9. Programme-wise Student Teacher Ratio
UG Programme

| Year | Students-Teacher Ratio |
|---|---|
| 2014-15 | 324:1 |
| 2013-14 | 310:1 |
| 2012-13 | 258:1 |
| 2011-12 | 271:1 |
| 2010-11 | 299:1 |

10. Number of academic support staff (technical) and administrative staff; sanctioned and filled
       NIL

11. Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.
       NIL

12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received
       NIL

13. Research facility /centre with
   - state recognition              : -
   - national recognition           : -
   - international recognition       : -

14. Publications:
   number of papers published in peer reviewed journals (national / international)
   * Monographs                        : -
   * Chapter(s) in Books               : -
   * Editing Books                     :
   * Books with ISBN numbers with
     details of publishers      : One–978-81-926494-6-7
                                  (Ninneyanthilla Nannoor) by Studen
   * number listed International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.) : -
   * Citation Index- range/average        : -
   * SNIP                                 : -
   * SJR                                  : -
   * Impact factor-range/average          : -
   * h-index                              : -

15. Details of patents and income generated
                    NIL

16. Areas of consultancy and income generated
    - Consultancy        : Translation into Kannada
    - Income Generated   : Honorary

17. Faculty recharging strategies
    - Attending Human Development Programmes
    - Attending Seminars and Workshops
    - Browsing Educational Websites
    - Group Discussion with Peers

18. Student projects
    - Percentage of students who have done in-house projects including inter – departmental :  Ten Projects ( Two Projects yearly)
    - Percentage of students doing projects in collaboration with industries/institutes        : Nil

19. Awards/ recognitions received at the national and international level by
    a) Faculty
    b) Doctoral/Post doctoral fellows
    c) Student
    - **Mr. Manjunath Nandenavar** of B.Sc- VI Sem. Published his Self Composed Poems in the form of Book **"Ninneyanthilla Nannoor"** released on 24th March 2014. ISBN No- 978-81-926494-6-7

20. Seminars/ Conferences/Workshops organized & the source of funding (national /international) with details of outstanding participants,if any
                    **NIL**

21. Student profile course wise:
                    UG Programme

| Name of the course | Year | Applications received | Selected | | Pass percentage | |
|---|---|---|---|---|---|---|
| | | | Male | Female | Male | Female |
| B.Sc. | 2014-15 | 174 | 74 | 100 | 96.43 | 100 |
| | 2013-14 | 164 | 74 | 90 | 100 | 100 |
| | 2012-13 | 153 | 64 | 89 | 100 | 100 |
| | 2011-12 | 130 | 57 | 73 | 100 | 100 |
| | 2010-11 | 164 | 80 | 84 | 100 | 100 |

22. Diversity of Students

| Name of the course | Year | % of students from the college | % of the students from the state | % of the students from other state | % of the students from other countries |
|---|---|---|---|---|---|
| B.Sc. | 2014-15 | 37.00 | 100 | - | - |
| | 2013-14 | 30.77 | 100 | - | - |
| | 2012-13 | 40.69 | 100 | - | - |
| | 2011-12 | 39.03 | 100 | - | - |
| | 2010-11 | 42.52 | 100 | - | - |

23. How many students have cleared Civil Services, Defense Services, NET,SLET,GATE and any other competitive examinations?
   - Mr. Shuklambar Pattar has joined defense in the year 2012.
   - Miss. Asma Ganachari has passed SLET exam in 2013

24. Students progression:

| Student progression | Percentage against enrolled | | | | |
|---|---|---|---|---|---|
| | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| UG to PG | - | - | - | - | - |
| PG to M.Phil. | - | - | - | - | - |
| PG to Ph.D. | - | - | - | - | - |
| Ph.D. to Post-Doctoral | - | - | - | - | - |
| Employed<br>• Campus selection<br>• Other than campus recruitment | | 8.22 | 3.28 | 5.26 | 1.64 |
| Entrepreneurs | • Anand Darur, Autonagar Belagavi<br>• Mallikarjun Wali, Tissue culture, Nidasoshi<br>• Rudrappa Godageri, Tata Solar, Belagavi | | | | |

25. Diversity of staff:

| Percentage of faculty who are graduates | |
|---|---|
| of the same university (parent University came into existence from 27-07-2010) | - |
| from other university within the State | 100 |
| from other university from other States | - |

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.
   **NIL**

27. Present details about infrastructural facilities
   a) **Library**
      **Departmental Library Books** : 70
      **Central Library Books** : 2303
   b) **Internet facilities for staff and students** : 01

c)  **Total Number of class rooms**          **:** 04
d)  **Class rooms with ICT facility**        **:** 04
e)  **Students' laboratories**               **: -**
f)  **Research Laboratories**                **: -**

28.  Number of students of the department getting financial assistance from college.

| Financial assistance | Number of students getting Financial assistance | | | | |
|---|---|---|---|---|---|
| | **2014-15** | **2013-14** | **2012-13** | **2011-12** | **2010-11** |
| Endowment cash Prize | - | 08 | 05 | 05 | 04 |
| RLSI Nidhi | 08 | 13 | 22 | 18 | 15 |
| Student Aid Fund | - | - | 16 | 22 | 12 |
| K.S.S.W | - | - | 20 | 20 | 11 |

29.  Was any need assessment exercise undertaken before the development of new program(s)?  If so, give the methodology.

Yes, in the light of changing needs of the society and to create interest in the student community about literarature department makes assessment exercise before the development of new curriculum

- Feedback from alumni and parents
- Interaction with Academic, Peers and Industrialists, Alumni and Experts.

30.  Does the department obtain feedback from
a)  faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?

Yes, the department obtains feed-back from the faculty on curricular as well as teaching-learning and evaluation.  Accordingly the syllabus is discussed with  academicians and incorporated in the syllabus  before BoS meetings. After the approval from the BoS then it is sent to Academic Council for approval.

b)  students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same

Yes, feedback procured from the students on staff, curriculum as well as teaching-learning and evaluation, is taken into account. After several deliberations the same are brought to the notice of the BoS. If any changes, these are incorporated in the curriculum and put into practice.

c)  alumni and employers on the programmes and what is the response of the department to the same?

Yes, in the alumni meeting the curriculum, teaching, learning process and evaluation are discussed and if any suggestions are made then as per the procedure the same would be implemented.

## 31. List the distinguished alumni of the department (maximum 10)

| No | Name of the Alumni | Prominent position | Place |
|----|--------------------|--------------------|-------|
| 1 | Dr.Chandrashekhar Kambar | Jnanpith Awardee,Formar vice Chancellor ,Hampi Univercity Hampi. | Bengaluru |
| 2 | Shri. S.I. Vijapure | General Manager Central Food Technology Research Institute. | Mysore |
| 3 | Shri. D. B. Inamadar | M. L. A. Ex-Minister Tourism and I T, Government of Karnataka. | Neginahal |
| 4 | Dr. H. S. Patil | Former K.P.S.C. member Govt. Of Karnataka | Bengaluru |
| 5 | Shri. S. C. Dalavai (KAS) | Add. Commissioner Commercial Taxes | Bengaluru |
| 6 | Shri. Ishwar D Sanadi | Manager, Godrej Soaps Ltd. Mumbai | Mumbai |
| 7 | Shri.Vinayak Nadagouda | Research Associate, Genetics and plants breeding division, TATA Enterprises | Bengaluru |
| 8 | Dr. Suresh Duggani | Neurologist | Hubli |
| 9 | Shri. Gopal Jinagouda | Industrialist | Belagavi |
| 10 | Shri. V. V. Shenoy | Founder, employment Bureau | Belagavi |

32. Give details of students enrichment programmes (special lectures/workshops/seminar) with external experts.
   **NIL**

33. List the teaching methods adopted by the faculty for different programmes.
   - Chalk and Talk
   - Interaction
   - Group discussion
   - Assignments
   - Projects
   - Role play
   - Drama

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?
   - Result analysis
   - Continuous internal assessment
   - Monitoring the Attendance
   - Mentor system
   - Seminars
   - Assignments
   - Students Counseling

35. Highlight the participation of students and faculty in extension activities.
- Voluntary service offered to foreign delegates during **Vishwa Kannada Sammelana** (World Kannada Convention in 2011)
- Participation in 150th Birth Anniversary of Swami Vivekananda
- Participation in Swachhata Abhiyana 02nd October 2014
- On 16-02-2014 a rally on AIDS Awareness was arranged at Basavankol Village
- Essay and Poster making competitions were conducted on AIDS/HIV for Youth
- Guest lecture was arranged on Tobacco and its effects on health on 24-01-2014. Dr. Mahantesh Ramannavar, KLES B.M. Kankanwadi Ayurveda Mahavidyalaya, Belagavi was the Chief guest
- Our volunteers participated in Voting Awareness rally on 25-01-2014
- Road safety week was arranged on 25/1/2014
- Rally on Blood Donation Awareness was arranged on 01-10-2013

36. Give details of "beyond syllabus scholarly activities" of the department.
- Language Translation consultancy offered to the Public

37. State whether the programme/department is accredited/graded by other agencies. Give details.

Department as a unit is not accredited individually. However the college as a whole is accredited and re-accredited by NAAC.

38. Detail any five Strengths, Weakness, Opportunities and Challenges (SWOC) of the department.
Strengths:
- Excellent results
- Guiding the students in creative writings
- Peaceful environment and good infrastructure
- Curricular designed as per the societal needs
Weakness:
- Less inclination of students towards Kannada language
- Lack of MRPS
Opportunities:
- To teach Kannada to non –kannada Students
Challenges:
- To improve the students writing skills
- Motivating the slow learners

39. Future plans of the department.
- To inspire and encourage the students to take up project work in various subjects.
- To motivate consultancy service in translation

# Department of Hindi

1. Name of the Department & its year of establishments

        Name of the department      :       Hindi

        Year of Establishment      :       1935

2. Names of Programmes / Courses offered (UG,PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

        UG : B.Sc.

3. Interdisciplinary courses and the departments involved : NIL

4. Annual/ semester/choice based credit system

        UG: Semester System

5. Participation of the department in the courses offered by other departments

        NIL

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst.Professors)

|  | Sanctioned | Filled |
|---|---|---|
| Professors | - | - |
| Associate Professors | - | - |
| Asst.Professors | 01 | 01 |

7. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

| Name | Qualification | Designation | Specialization | No. of years Experience | No. of Ph.D. Students guided for the last 4 years |
|---|---|---|---|---|---|
| Dr.R. S. Hiremath | M.A. M.Phil., Ph.D. | Asst. Professor | Entire Hindi | 10 Yrs | Guided two M.Phil. |

8. Percentage of classes taken by temporary faculty –programme-wise information

Nil

9. Programme-wise Student Teacher Ratio

        UG Programme

| Year | Students-Teacher Ratio |
|---|---|
| 2014-15 | 146:1 |
| 2013-14 | 143:1 |
| 2012-13 | 129:1 |
| 2011-12 | 133:1 |
| 2010-11 | 141:1 |

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled

        NIL

11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise.

        NIL

12. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. ; and total grants received

        NIL

13. Research facility /centre with
   - state recognition        :     -
   - national recognition       :     -
   - international recognition    :     -

14. Publications:
   number of papers published in peer reviewed journals (national / international)
   - * Monographs            : -
   - * Chapter in Books      : -
   - * Books Edited          : -
   - * Books with ISBN/ISSN numbers with details of publishers :
     Chapter in a Book : Samakalina Hindi Sahitya ki Chunothiya, ISBN No. 978-93-81980-15-6 : Hindi Natak ek Survekshana.
   - * Citation Index         : -
   - * SNIP                : –
   - * SJR                 : –
   - * Impact factor         : -
   - * h-index             : -

15. Details of patents and income generated

        NIL

16. Areas of consultancy and income generated
   - Consultancy      : Translation into Hindi Lnaguage
   - Income generated  : Honorary

17. Faculty recharging strategies
   - Participating and Presenting Papers in National and International Seminar/ conferences
   - Attended Faculty Development Programme
   - Browsing Educational Websites

18. Student projects
   a) percentage of students who have done in-house projects including inter - departmental
      Ten Projects (Yearly two projects)
   b) percentage of students doing projects in collaboration with industries/institutes
      NIL

19. Awards/ recognitions received at the national and international level by
   a) Faculty
      Aawrded Ph.D from South India Hindi Pracharak Sabha, Dharwad wing in the academic year 2011-12
   b) Doctoral/Post doctoral fellows : Nil
   c) Students:
   - Mr. Vaibhav Sainakar got 2$^{nd}$ place in Channamma Yuva sambram 4$^{th}$ Inter Zonal Youth Fest held on 19$^{th}$ to 23$^{rd}$ December 2013 at Bengaluru. And participated in All India Inteer University Cultural meet at Kurukshetra.

20. Seminars/ Conferences/Workshops organized and the source of funding ( national /international) with details of outstanding participants,if any.

| Event | Outstanding Participants | Number of Delegates |
|---|---|---|
| National Seminar- "Pandit Makhanalal Chaturvedi, Sahitika Rashtriya Sangoshti" sponsored by Karnatak Hindi Prachar Samiti | Dr Arjun Chavan, Chairman Department of Hindi Shivasji Universit, Kolhapur | Total delegates :**120** Papers presented : **93** |
| | Dr Chaya Patil, Hod of Hindi B K A Sc. College Inchalkaranji | |
| | Dr V R Devgiri, General Secretary, Karnatak Hindi Prachar Samiti, Bangaluru | |

21. Student profile course wise:
   U. G. Programme

| Name of the course | Year | Applications received | Selected | | Pass percentage | |
|---|---|---|---|---|---|---|
| | | | Male | Female | Male | Female |
| B.Sc. | 2014-15 | 85 | 25 | 60 | 100 | 100 |
| | 2013-14 | 72 | 26 | 46 | 100 | 100 |
| | 2012-13 | 85 | 26 | 59 | 100 | 100 |
| | 2011-12 | 42 | 15 | 27 | 100 | 100 |
| | 2010-11 | 87 | 25 | 62 | 100 | 100 |

22. Diversity of Students

| Name of the course | Year | % of students from the college | % of the students from the state | % of the students from other state | % of the students from other countries |
|---|---|---|---|---|---|
| B.Sc. | 2010-11 | 25.29 | 98.85 | 1.15 | - |
| | 2011-12 | 33.33 | 92.24 | 5.76 | - |
| | 2012-13 | 29.85 | 92.54 | 7.46 | - |
| | 2013-14 | 22.22 | 95.88 | 4.12 | - |
| | 2014-15 | 16.47 | 92.94 | 7.06 | - |

23. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations?
   - Mr. Shuklambar Pattar has joined defense in the year 2012.
   - Miss. Asma Ganachari has passed SLET exam in 2013

24. Student progression:

| Student progression | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
|---|---|---|---|---|---|
| UG to PG | - | - | - | - | - |
| PG to M.Phil. | - | - | - | - | - |
| PG to Ph.D. | - | - | - | - | - |
| Ph.D. to Post-Doctoral | - | - | - | - | - |
| Employed<br>• Campus selection<br>• Other than campus recruitment | | 25<br>- | 10<br>- | 16<br>- | 5<br>- |
| Entrepreneurs | • Anand Darur, Autonagar Belagavi<br>• Mallikarjun Wali, Tissue culture, Nidasoshi<br>• Rudrappa Godageri, Tata Solar, Belagavi | | | | |

25. Diversity of staff

| Percentage of faculty who are graduate | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
|---|---|---|---|---|
| of the parent University (parent University came into existence from 27-07-2010) | - | - | - | - |
| from other University within the state | 100 | 100 | 100 | 100 |
| faculty From other University from other States | - | - | - | - |

26. Number of faculty who were awarded Ph.D., D.Sc., and D.Litt. during the assessment period.
   ONE

27. Present details about infrastructural facilities.
   a) **Library**
      Departmental Library Books          : 50
      Central Library Books               : 596
   b) **Internet facilities for staff and students    : Yes**

c) **Total Number of class rooms** : **04**
d) **Class rooms with ICT facility** : **04**
e) **Students' laboratories** : **-**
f) **Research Laboratories** : **-**

28. Number of students of the department getting financial assistance from College.

| Prize type | Number of students year wise | | | | |
|---|---|---|---|---|---|
| | 2014-15 | 2013-14 | 2012-13 | 2011-12 | 2010-11 |
| R. L. S. I. Nidhi | 07 | 13 | 22 | 18 | 15 |
| Endowment cash prize | - | 08 | 05 | 05 | 04 |
| Student Aid Fund | - | - | 16 | 22 | 12 |
| K.S.S.W | - | - | 20 | 20 | 11 |

29. Was any need assessment exercise undertaken before the development of new programme(s)? If so, What is the methodology.

Yes, due to changing needs of the society and to make students to learn National Language effectively department makes assessment exercise before the development of new curiculum and

- Feedback from Alumni and parents
- Interaction with Academic, Peers and Alumni

30. Does the department obtain feedback from
a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the dept utilize it?

Yes, the department obtains feedback from the faculty on curricular as well as teaching-learning and evaluation. If the faculty members would like to make changes in the curriculum then the topics which have to be deleted and the topics to be included is discussed and incorporated in the BoS meetings. After the approval from the BoS the it is sent to Academic Council for approval.
b) students on staff, curriculum as well as teaching-learning-evaluation and what is the response of the department to the same?

Yes, feedback from the students on staff, curriculum as well as teaching-learning and evaluation, is taken into account. After several deliberations, the same are brought to the notice of the BOS. If any changes, these are incorporated in the curriculum and put into practice.
c) alumni and employers on the programmes and what is the response of the department to the same?

Yes, in the alumni meeting the curriculum, teaching-learning process and evaluation are discussed and if any suggestions are made then as per the procedure the same would be implemented.

31. List the distinguished alumni of the department  (maximum 10)

| Sl. No. | Name of the Alumni | Prominent position | Place |
|---|---|---|---|
| 1 | Dr. Kameshwar Wali | Prof. Physics Emeritus, Syracuse University Newyork | Newyork |
| 2 | Shri Shrikanth Vantumuri | Add. Sectary Law Dept. Govt. Of Karnataka | Bengaluru |
| 3 | Mr. Sanjeev Hiremath | Global Manager at Hindustan Liver Ltd. | Bengaluru |
| 4 | Miss. Shubha Gunaga | Reseach Assistant Indian Inst. Of Science | Bengaluru |
| 5 | Dr. A. R. Shelar | Former Head of the Department of Chemistry Shivaji University Kolhapur | Kolhapur |
| 6 | Shri. Amar Singh Patil | Ex-member of Parliament | Belagavi |
| 7 | Shri. B. R. Singhai | Former Superintendent Of Police | Belagavi |
| 8 | Smt. Sadhana Pote | Employment Officer | Belagavi |
| 9 | Lt. Col. P. B. Bogar | Indian Army | Belagavi |
| 10 | Shri. Prabhakar Apte | General Manager Gogate Textiles | Belagavi |

32. Give details of student enrichment programmes (special lectures/workshops/seminar) with external experts.
   Organised National Seminar on 18th Jan. 2015

33. List the teaching methods adopted by the faculty for different programmes.
   - Talk and chalk
   - Interaction
   - Group discussion
   - Assignments
   - Projects
   - Role Play
   - Drama

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?
   - Result analysis
   - Continuous internal assessment
   - Monitoring the Attendance
   - Mentor system
   - Seminars
   - Assignments
   - Students Counseling

35. Highlight the participation of students and faculty in extension activities.
   - Rally on Blood Donation Awareness was arranged on 01-10-2013.
   - On 16-02-2014 a rally on AIDS Awareness was arranged at Basavankol Village.
   - Essay and Poster making competitions were conducted on AIDS/HIV for Youth.
   - Guest lecture was arranged on Tobacco and its effects on health on 24-01-2014. Dr. Mahantesh Ramannavar, KLES B.M. Kankanwadi Ayurveda Mahavidyalaya, Belagavi was the Chief guest.
   - Our volunteers participated in Voting Awareness rally on 25-01-2014.
   - Road safety week was arranged on 25/1/2014
   - Participation in 150th Birth Anniversary of  Swami Vivekananda
   - Participation in Youth Convention of  Belagavi Ramkrishna Ashram every year.
   - Participation in Swachhata Abhiyana 02-10-2014
   - Rally on International Non Violence day on 02-10-2013

36. Give details of "beyond syllabus scholarly activities" of the department.
   - Staff and students attending and presenting papers in National seminar/conference
   - Language Translation consultancy is offered to the Public, Press and Media.

37. State whether the programme / department is accredited/graded by other agencies. Give details.
   Department as a unit is not individually accriditated. However the college as a whole is accredited and Reaccredited by NAAC

38. Detail any five Strengths, Weakness, Opportunities and Challenges (SWOC) of the department.
   Strengths:
   - Inspiring the Students to write  creative articles
   - Designing  the curriculum as per the societal needs
   - Research activities
   - Guiding the M. Phil. students
   - Excellent results
   Weakness:
   - Less inclination of Students   towards Hindi language
   -  Lack of MRPs
   Opportunities:
   - To participate in National International Seminars
   -  To enrich the Publication

- To take up MRP
- To teach Hindi to non –Hindi Students
Challenges:
- To improve the students writing skills
- Motivating the students towards learning of Hindi

## 39. Future plans of the departments.
- To inspire and encourage the students to take up project work
- To take up MRP
- To increase the literary activities

# Post – Accreditation Initiatives

## Criterion-I: Curricular Aspects

Being an affiliated college, Institute adopted curricula prescribed by the university till 2011-2012. In the year 2012-2013 **autonomous status** was granted, which helped the institute in academic and administrative reforms. It helps in designing the curriculum which is consistent with institutional goals and objectives. The recommendation made by the peer team about autonomy is fulfilled. The curriculum of the college is reviewed once in three years, after giving a due consideration to the feedback, suggestions and recommendations given by the IQAC, BoS, Students, Parents and Industrialists. The college identifies the thrust areas of study that need modernization and enhancement, so that curriculum becomes socially relevant, globally competent and job oriented.

As per the Peer recommendations, in the year 2010, PG course in Physics and Mathematics were started and in the year 2012 PG course in Computer Applications was started. Earlier six subject combinations at B.Sc. level were providing limited academic flexibility. Now ten subjects and **eight combinations** at B.Sc. level provide ample academic flexibility which meets the need of students and the society. To promote employability college conducts **twenty two certificate courses** out of which a student is given flexibility to select any two certificate courses in the duration of three years of UG course.

Inter-disciplinary programmes which include subjects like Biotechnology, Computer Science, Economics, Statistics and Electronics are in the UG level. In the PG course one open elective paper is included exclusively as an inter-disciplinary approach.

In B.Sc. course, programmes advanced Life-Science courses like Biotechnology is as one of the optional subjects is already incorporated in our curriculum. As per the Peer recommendations, we have also started certificate courses in Mushroom cultivation, Dairy science, Horticultural Pratice, Poultry Science, Plant Tissue Culture all related **to Life Science**s which promote employability.

UG Course (B.Sc. & BCA) and PG Course (M.Sc. & MCA) follow the Semester system where as all certificate courses follow Annual system. The College adopted the Choice Based Credit System (CBCS) for PG programmes.

To impart values among the students, moral education, Indian Constitution, Human Rights & Environmental Science, Technical

Communication & Ethics, Personality Development & Communication Skills are made compulsory subjects. **"Student as a Teacher"** started as one of the best practices has now become a part of the curriculum.

In the autonomous system, it is inbuilt mechanism to nominate alumni, industrialists and academicians to the statutory bodies like Governing Body, Academic Council, Board of Studies and IQAC.

Feedback in each programme is obtained by the students in every semester.

## Criterion-II: Teaching –Learning and Evaluation

Our college is offering both the Under graduate and Post graduate programmes. Updated informations in the prospectus/ handbook/ college website every year makes the students and parents aware of academic programmes, academic administration, available courses, eligibility criteria, prescribed fees, hostel facilities, scholarships, sports facilities, co-curricular infra-structure and an academic calendar. The students are admitted to these programmes based on the merit and entrance test. The admission process is transparent as we follow the norms of the State Government giving due representation to the students of weaker sections. Highly meritorious students are admitted with nominal fees of ₹10/-

The institution practices the **mentor system** in addition to class teachers. Remedial coaching for slow learners, enrichment programme for advanced learners, **bridge course** etc., help the students to excel in their academics. '**Earn while learn'** and '**RLSI Nidhi**' facilities are available for needy students. Student-centric learning is aided through brain storming, cloud computing and Neurolinguistic programmes, activity based, experimential, participative, problem solving etc., for learning methods. The **Orientation/Induction programme** is conducted every year for the newly admitted students.

Classrooms with LCD's, smart boards and well equipped laboratories create the **congenial** atmosphere for learning.

The students participate in group discussion/quiz/seminars/workshops/projects etc., this enhances the competency of the students. The personality development programmes are regularly conducted.

The faculty of the college is highly experienced and research oriented. Department of Physics, Chemistry, Hindi, Botany, Mathematics, BCA and IQAC have conducted National seminars/conferences/IT Fests on the emerging areas in the respective subjects. Besides this HRD and computer

literacy training programmes were also organized in the college. Our faculty has participated in **323** International/National/State level conferences/ seminars/workshops. Total **ninety one** papers are presented, of which **fifty two** papers are presented by faculty and **thirty nine** by the students. **Fifty seven** research papers are published by faculty.

The library of the college is continuously updated with books, CDs', e-journals, delnet, internet, OPAC etc.

The examination section has made the following reforms which ensure transparency in the system:
- Bar coding of answer scripts
- Phased automation of examination process
- Updating the examination software's with MIS
- Incorporation of more e-security measures
- Uploading the provisional results on college website to ensure transparency

**Fourteen** University ranks indicate the efficient learning outcome of the college

## Criterion-III: Research, Consultancy and Extension

The college has Research cell which co-ordinates and monitors research activities. The faculty is encouraged and provided with sophisticated scientific instruments, books and journals to undertake Major and Minor Research Projects and pursue M. Phil. and Ph. D. With regard to this **one** major and **fifteen** minor research projects have been completed and **seven** Minor Research Projects are ongoing, which include interdisciplinary, industry and society related projects. UGC grants of ₹**43,45,109/-** have been sanctioned for the same. **Five** faculty guides **twenty three** M. Phil. and Ph. D. students. VGST sanctioned a grant of ₹30,000/- for student project. About **660 research projects** by the students are to the credit of our institution.

Our college has organized **eleven** national conferences/seminars/ IT fests. College also has **twent four** workshops to its credit. Faculty members have published **five** books and **fifty seven** research articles in national and international journals. One of our faculty has attended and presented a paper at **International Conference held at Bangkok** in the pursuit of Higher Education. Total **ninty one** papers are presented at National / International seminars / conferences of which **fifty two** papers are presented by faculty and **thirty nine** by the students. **Four** faculty members are serving on editorial board; **twelve** are Life Members of state, national and international organizations. **Three** members are serving as experts on National Interview

Boards. **Five** members are serving as paper reviewers for National/International journals

Increase in the number of collaborative activities has been strengthened in view of enhancing the quality and output of research activities. The faculty members are extending **fourteen honorary consultancy** services to the community. The college has college-industry cell which is a part of Placement cell to achieve skill oriented education and employability. As a result reputed companies like Infosys, Wipro, IBM, TCS, ADP Pune, DUISCHE Bank etc. have recruited our students.

The college is linked to the community through its various activities and programmes to create awareness and commitment towards institutional and social responsibilities. So far **145 extension activities** have been conducted such as: adoption of the village, medical camps, rallies on AIDS awareness, anticorruption, prevention of environmental pollution, blood donation camps, tree plantation, **RLSI Nidhi**. **Coaching the orphans** by our students, social surveys, and other value–based programmes are conducted. Our NSS, NCC, YRC and RRC are actively participating in community oriented development programmes. College received **"IAB Blind Empowerment Champions Trophy 2014"** from Indian Association for Blind, Madurai, Tamilnadu, for the voluntary contribution for the empowerment of visual challengers. Women Development programmes, awareness and health hygiene programmes, besides the academic and extra-curricular support are offered to envisage the quality of lady students of the college.

College industry interactions have resulted in exposure of students to the industrial environment. This has provided practical and relevant knowledge and has helped them to become competent entrepreneurs. The college has **nine** MoUs with different sectors which has helped the college in enhancing teaching-learning, research and development related activities through curriculum development, faculty sharing, facility sharing, internship, placement and organizing workshops / seminars / conferences.

**Criterion-IV: Infrastructure and Learning Resources**
After the second cycle of NAAC accreditation the following support systems have been added for the improvement of college infrastructure and learning resources.

**Four classrooms** for B.Sc. **four classrooms** for M.Sc., **three classrooms** for BCA/MCA, a separate Library, Computer Laboratory, Hardware Laboratory, Administrative Office and Co-ordinator chamber for BCA/MCA Department and Examination Section are constructed in Education Wing. A new block of 27 rooms with capacity of 54 students is added to the **new ladies hostel**. Laboratories are upgraded with advanced equipments.

The college has updated its automation and networking to facilitate retrieval and usage of administrative and academic data with 182 computers in the campus. **Wi-Fi / internet connectivity** has been provided in the campus for staff/students to access at their convenience. Electronic database is created for sustainable documentation of college information. The college has a set of fully equipped ICT enabled digital class rooms which are used extensively for teaching, power point presentations, demonstrations, students seminars, etc.,

As per the NAAC Peer team recommendation, our library is automated with **standard softwares** like OPAC and Delnet. Many user-friendly initiatives are taken to render library student friendly. It ensures adequate *Book-Bank* facility. A spacious IT Zone with 25 computers for accessing and browsing e-journals has been created in the library. Library working hours have been enhanced. 20 computers with chairs and tables and 2 CCTV cameras are added. The library deploys signage boards to provide access to the collection. All the department libraries are strengthened with more number of books.

On the sports side, an **Olympic standard Swimming Pool** of 50m x 21m x 1.8m dimension with changing rooms and spectator's gallery, a new **basket ball court** and installation of **flood lights** for the entire playground are the additions to the existing infrastructure.

The college has put in place the following facilities to meet the requirements of students/staff with **physical disabilities:** wheel chair facility**,** ramp facility and arranging theory and practical classes at the ground floor.

College facilitates **Group Insurance** facility for all the students. **Bio-metric** attendance system is adopted. Students attendance is monitored through OPTRA/CMS.

The college compound wall is bordered inside with tall trees and a stretch of green lawn thus making it eco friendly. Segregation of dry and wet garbage at the source and its proper disposal is a step closer for waste management.

Health related services are provided with support from K.L.E Society's multi-speciality Dr. Prabhakar Kore Hospital and Research Centre, Belagavi.

Engineering section of K.L.E Society looks after the major repair works where as minor repairs and maintenance are taken care by employing temporary staff.

**CRITERION-V: Students Support and Progression**

With the introduction of Autonomous system, after reaccreditation, the college aimed at well organized support and mentoring system to respond to the needs of students and for the holistic development of the college. Information about the institution is made publicly accessible through updated college website.

Mentoring and counseling have helped the students to overcome their difficulties regarding academics. This is visualized by securing **fourteen ranks** to the university in this accreditation cycle.

Health care card and Student Safety Scheme Insurance are the strong support provided to the students. Scholarships' and fee concessions are also provided to students.

As per the recommendation of the NAAC PEER team college has generated more funds to the institute in the form of **endowment cash prizes**. Ample support system has been added in the current accreditation cycle. Wi-Fi connectivity has been provided at selected spots in the campus for the students to access at their convenience. The quality initiatives such as communicative skill, soft skills, advanced computer skills, etc., have increased the learning desire of the students. Besides imparting vital employability skills, the revamped placement training programmes keep the students updated with current revolutionary techniques for employability. So far **276** students have been placed in various reputed companies and other institutions. Students are having an option of opting two certificate courses so that they are equipped with additional skills for **employability and entrepreneurships**. NET / SLET and SSB Coaching also exist.

Women Empowerment Cell is strengthened. This looks after the issues of women. Various initiatives such as awareness programmes related to health & hygiene, legal rights, besides the academic and extra-curricular support are offered to envisage the quality of lady students of the college.

Students' participation in co-curricular and extra-curricular activities is increased. **Forty two** students represented university in inter university sports competitions; **Bronze Medal** in Cyclothon in **National level** competition. Achievements of NCC cadets are noteworthy, **eight cadets** attended **Republic Day Parade at New Delhi** and **one cadet received three Gold medals and one Silver medal.** One NSS volunteer attended the State Public Parade in Bengaluru.

Students are encouraged to procure financial assistance for projects from the agencies like VGST/KVPY. Two students jointly published research paper in International journal. **Thirty nine** papers are presented in National / State level Seminars / Conferences organized by various institutions and many have won cash prizes. Formal and informal feedback mechanisms from all the stakeholders and effective grievance redressal system have been developed to make support services more effective.

Students' involvement in academic and administrative bodies like IQAC, gymkhana committee, 'Students Activities' committee, editorial boards of the college magazine, library advisory committee etc. is ensured effectively.

## Criterion-VI: Governance, Leadership and Management

The Mission and Vision of the college is to provide quality science education. The goal of the college is to provide a platform to the students for their overall development (intellectual, social and spiritual) which thus has increased the enrolment of meritorious and girl students.

The Autonomous status granted by UGC was implemented by our Institution from the academic year 2012-13. Functioning of autonomy is prepared by IQAC and is monitored by the members of Governing Body, Academic Council and Board of Studies. Management is supportive and it holds meetings regularly with faculty and the students for effective functioning of the Institution.

IQAC coordinates quality related activities of the college according to the Academic Calendar. It ensures timely, resourceful and progressive performance of academic and administrative activities and successful execution of the same.

Each department has given the freedom to redesign the syllabi and to introduce the Certificate courses keeping in pace with the global needs and for up gradation of knowledge and skills of the students. PG courses in Physics, Mathematics and Computer Applications have been started to provide higher education and to enhance the possibilities of employment.

Faculty is encouraged to undertake Major/Minor Research Projects and research guide ship. Paper presentations and research publications are carried out through Research centre of our college. Faculty is given ample opportunities to upgrade their knowledge by organizing/attending Seminars/Conferences/Workshops by providing financial support. Faculty members also visit the other institutions as Resource persons. College conducts Faculty Improvement Programmes for teaching staff and computer literacy training programmes for non-teaching staff.

Feedbacks of stakeholders are collected at regular intervals and corrective measures are taken.

The central library is well equipped and fully computerized. New software-Management Information Systems (MIS) has been installed in Examination section and Office of the college. There is an increase in the number of LCD/CDs/DVDs. Botanical and Zoological museums are upgraded. University has recognized our college for central valuation work since last four years, and also to conduct K-SET examinations.

The college through its Women Empowerment Cell emphasizes on Women Education, health and safety by arranging lectures by well-known personalities. College conducts Personality Development programmes for students. College also conducts Gender sensitization programmes like Yoga, meditation, Human rights and Legal awareness. Students are encouraged to participate in curricular, co-curricular and extra-curricular activities through various committees and associations. Students have excelled as University Blues. Our students secure ranks regularly at University Examinations. The college through its various departments conducts different extension activities

At the beginning of every year the Finance Committee prepares annual budget. The institution efficiently mobilizes the resources. Internal and External audits are conducted regularly. Faculty members help the students by contributing towards **"RLSI Nidhi"**

## Criterion – VII: Innovations and Best Practices

Our college adopts environment friendly practices. We conduct green audit of the campus in three phases- Pre audit, Audit and Post audit. Green audit covers aspects like testing the ambient quality of air, cost effective use of electricity, developing awareness regarding water conservation, proper management of **e-waste** etc. The college has followed **3-R rule** (**R**educe, **R**ecycle and Re-use) for eco-friendly awareness. Environmental Day is celebrated every year on 5$^{th}$ June to develop eco-concern among the staff and the students. National seminar such as **"Climate change and its impact on biodiversity"** is conducted to create awareness about environment. To study the **carbon neutrality** ambient quality of college campus air is checked every year by the help of Karnataka Pollution Control Board. Awareness regarding the minimal consumption of energy is also developed among staff and students. We have **207 different varieties of plants** in our campus which are **scientifically named**. Every year Vanamahotsava is celebrated to create awareness about conservation of Biodiversity. **Solar heaters** are installed as a source of renewable energy. **Hazardous wastes** like radioactive substances are placed in lead castle and separate soak pits are provided to discharge waste

waters. Degradable and non-degradable waste is collected and sent for recycling.

**Innovations**

To promote an ambience of creativity, innovation and improving the quality, our college takes all the measures. In the view of this our college has introduced following innovative practices: **"Student Insurance Scheme"** is established in the college. Candidates from the disadvantaged section are sympathetically considered for under "**Equal Opportunity Centre scheme"** and "**Earn while you learn "** schemes by the college. **Yoga and meditation** camps are arranged regularly to staff and students. **Incremental academic growth** is a yard stick of quality building measure. **Bridge courses**, Soft Skill programmes for UG students and **NET/SLET** coaching for PG students is introduced. Twenty two Certificate courses in UG and **Choice Based Credit System (CBCS)** in PG studies are introduced. "**My Hall-My Bench"** seating arrangement during examination, 'Gate' **system** to check the entry to the higher classes and **Double Evaluation** in Semester End Examination are introduced. Books in Library and Answers scripts in Examination section follow bar-coding system. CCTV cameras are fixed in certain places. **Wi-Fi** system is also is provided. Biometric system for the staff is under practice.

**Best practices.**

- "**RLSI NIDHI"** - Financial help to needy and meritorious students by the faculty.
- **"HELP THE HELPLESS"-**To bring up abject children in the main stream of society

# RAJA LAKHAMAGOUDA SCIENCE INSTITUTE (AUTONOMOUS)
## BELGAUM-590001.

ಕೆ. ಎಲ್. ಇ. ಸಂಸ್ಥೆ

## ರಾಜಾ ಲಖಮಗೌಡ ವಿಜ್ಞಾನ ಮಹಾವಿದ್ಯಾಲಯ (ಸ್ವಾಯತ್ತ), ಬೆಳಗಾವಿ-೫೯೦೦೦೧.

**Accredited with 'A' Grade by NAAC**

Ref. No. : _____

Date : _____09.01.2015.

## Certificate of Compliance

(Affiliated/Constituent/Autonomous Colleges and Recognized Institutions)

This is to certify that K.L.E. Society's Raja Lakhamagouda Science Institute (Autonomous), fulfils all norms

1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition [if applicable] is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Principal
(Prof. V.G. Astagi)
R.L.Sc. Institute (Autonomous), Belagavi

Phone : (O)0831-2420430, (R) 2434211, Fax No. : 0831-2420471, E-mail : rls_bgm@rediffmail.com, Website : www.rlsinstitute.org

Our Slogan : **Adapt and Excel**

Ref. No. _____                                          Date _____ 09-03-2015

### Declaration by the Head of the Institution

I certify that the data included in the Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussion, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in the SSR during the Peer team visit.

Signature of the Head of the Institution
With seal

Certificate of Recognition u/s 2(f) and 12(B)

42

| App. Id / [illegible] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Programme | Shift | Level | Course | Full / Part Time | Affiliating Body | Intake 2012-13 | PIO | NRI | [illegible] |
| MCA | 1st Shift | POST GRADUATE | MASTER OF COMPUTER APPLICATIONS | FULL TIME | Karnataka University | 60 | No | No | No |

Note : The approval is valid for two years from the date of issue of this letter for getting affiliation with respective University and fulfilling State Govt. requirements for admission. If Institution is unable to start in the academic session 2012-13 due to reason mentioned above, the institution will have to apply On-line on AICTE web portal in the next academic session for continuation of approval.

The Society/Trust/Institution shall obtain necessary affiliation / permission from the concerned affiliating University as per the prescribed schedule of the University/ Admission authority etc. The Applicant Society/Trust/Institution shall send information about commencement of the above courses to AICTE. In case the Institution is not in a position to commence the above mentioned courses for whatever reason during the two years period from the date of issue of this letter, the approval becomes invalid and the applicant Society/Trust/Institution shall make fresh application to AICTE for grant of approval as per the norms prevailing at that time.

All Institutions shall fulfill the following general conditions:

1. The management shall provide adequate funds for development of land and for providing related infrastructural, instructional and other facilities as per norms and standards laid down by the Council from time to time and for meeting recurring expenditure.

2. The admission shall be made only after adequate infrastructure and all other facilities, including the availability / recruitment of the required faculty are provided as per norms and guidelines of the AICTE.

3. The admissions shall be made in accordance with the regulations notified by the Council from time to time.

4. The curriculum of the course, the procedure for evaluation / assessment of students shall be in accordance with the norms prescribed by the AICTE and concerned affiliating university whenever applicable.

5. The management of the institution shall not close the institution or the institution shall not discontinue any course(s) or start any new course(s) or alter intake capacity of seats without the prior approval of the Council.

6. No excess admission shall be made by the institution over and above the approved intake under any circumstances. In case any excess admission is reported to the Council, appropriate action as per the notified regulations shall be initiated against the institution.

Application Number : 1-770372621F

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Letter Printed On 4 June 2012

7. The institutions shall not have any collaborative arrangements with any Indian and / or Foreign Universities for conduct of technical courses other than those approved by AICTE without obtaining prior approval from AICTE. In case any violation is reported to the Council, appropriate action as per the notified regulations shall be initiated against the Institution.

8. The Institution shall not conduct any course(s) in the field of technical education in the same premises / campus and / or in the name of the Institution without prior permission / approval of AICTE. If found so appropriate action as per the notified regulations shall be initiated against the Institution.

9. The institution shall not conduct any non-technical course (s) in the same premises / campus under any circumstances. In case any violation is reported to the Council, appropriate action as per the notified regulations shall be initiated against the Institution.

10. The institution shall operate only from the approved location, and that the institution shall not open any off campus study centers / extension centers directly or in collaboration with any other institution / university / organization for the purpose of imparting technical education without obtaining prior approval from the AICTE. If found so, appropriate action as per the notified regulations shall be initiated against the Institution.

11. The tuition and other fees shall be charged as prescribed by the Competent Authority within the overall criteria prescribed by the Council from time to time. No capitation fee shall be charged from the students / guardians of students in any form. If found so, appropriate action as per the notified regulations shall be initiated against the Institution.

12. The accounts of the institution shall be audited annually by a certified Chartered Accountant and shall be open for inspection by the Council or any body or persons authorized by it.

13. The Director / Principal and the teaching and other staff shall be appointed in given time frame and selection shall be done according to procedures, qualifications and experience prescribed by the Council from time to time and pay scales are as per the norms prescribed by the Council from time to time.

14. The technical institution shall publish an information booklet before commencement of the academic year giving details regarding the institution and courses / programs being conducted and details of infrastructural facilities including faculty etc. in the form of mandatory disclosure. The information booklet may be made available to the stakeholders of the technical education. The mandatory disclosure information as per directions in the AICTE website / Approval Process Handbook, shall be put on the Institution Website. The information shall be revised every year with updated information about all aspects of the institution.

15. It shall be mandatory for the technical institution to maintain a Website providing the prescribed information. The Website information must be continuously updated as and when changes take place.

16. If a technical institution fails to disclose the information or suppress and / or misrepresent the information, appropriate action as per the notified regulations shall be initiated against this Institution.

17. AICTE may carry out random inspections round the year for verifying the status of the Institutions to ensure maintenance of norms and standards.

Application Number: 1/TRICH521Y

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Letter Printed On 8 June 2012

Principal
R. L. Science Institute
BELGAUM.

18. AICTE may also conduct inspections with or without notifying the dates to verify specific complaints, to verify adherence to AICTE norms & standards, and to verify any mis-representation, violation of norms & standards, mal-practices etc.

19. The Institution by virtue of the approval given by Council shall not automatically become claimant to any grant-in-aid from the Central or State-Government.

20. In the event of a student / candidate withdrawing before the starting of the course, the wait listed candidates should be given admission against the vacant seat. The entire fee collected from the student, after a deduction of the processing fee of not more than Rs. 1000/- (Rupees one thousand only) shall be refunded and returned by the Institution / University to the student / candidate withdrawing from the program. It would not be permissible for Institutions and Universities to retain the School / Institution Leaving Certificates in original to force retention of admitted students.

21. The Institute shall take appropriate measures for prevention of ragging in any form, in the light of AICTE regulation "Prevention and Prohibition of Ragging in Technical Institutions, Universities including Deemed to Universities imparting technical education" Regulation 2009 (F.No. 37-3/Legal/AICTE2009) dated 01/07/2009). Incase of failure to prevent the instances of ragging by the Institutions, the Council shall take appropriate action as per the notified regulations.

The Management of the Institute shall strictly follow further conditions as may be specified by the Council from time to time. The Council may withdraw the approval, in case it observe any violation of the above conditions and / or non adherence to the norms and standards prescribed by the Council, mis-representation of facts and submitting factually incorrect information to it

(Dr. K.P.Isaac)
Member Secretary, AICTE

Copy to

1. The Regional Officer,
   All India Council for Technical Education
   All India Council for Technical Education
   Health Centre Building
   Bangalore University Campus
   Bangalore - 560 009, Karnataka

2. The Director Of Technical Education,
   Karnataka

3. The Registrar,
   Rani Channamma University

4. The Principal / Director,

Application Number: 1-2769376521

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Letter Printed On 4 June 2013

KLE COLLEGE OF M C A, RLS INSTITUTE BELGAUM
LINGARAJ CAMPUS
COLLEGE ROAD,
BELGAUM,BELGAUM,
Karnataka,590001

b- The Secretary / Chairman,

KARNATAKA LINGAYAT EDUCATION SOCEITY, BELGAUM
CHAIRMAN, BOARD OF MANAGEMENT , KLE SOCIETY, COLLEGE ROAD,
BELGAUM,
BELGAUM,BELGAUM,
Karnataka,590001

E. Guard File(AICTE)

Application Number: 1-77007002??

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Letter Printed On:4 June 2013

Annexure - IV



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: [illegible] FAX: 011-[illegible] www.aicte-india.org

F. No. [illegible]

Date: 04-Jun-2014

To,
The Principal Secretary [illegible]
Govt. of Karnataka, [illegible]
[illegible] Road,
[illegible]

Sub: Extension of approval for the academic year 2014-15

Ref: Application of the Institution for Extension of approval for the academic year 2014-15

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number [illegible] dated [illegible] and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

| | | | |
|---|---|---|---|
| Regional Office | South-West | Application Id | [illegible] |
| | | Permanent Id | [illegible] |
| Name of the Institution | KLE COLLEGE OF B C A, RLS INSTITUTE BELGAUM | Institution Address | LINGARAJ CAMPUS COLLEGE ROAD, BELGAUM, BELGAUM, Karnataka, 590001 |
| Name of the Society/Trust | KARNATAKA LINGAYAT EDUCATION SOCIETY, BELGAUM | Society/Trust Address | CHAIRMAN, BOARD OF MANAGEMENT, KLE SOCIETY, COLLEGE ROAD, [illegible] |
| Institution Type | Unaided - Private | | |

| | | | | | |
|---|---|---|---|---|---|
| Opted for Change from Women to Co-ed | No | Opted for change of name | No | Opted for change of site | No |
| Change from Women to Co-ed approved | Not Applicable | Change of name Approved | Not Applicable | Change of site Approved | Not Applicable |

to conduct following courses with the intake indicated below for the academic year 2014-15

Application Number: [illegible]

Page 1 of 3

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Letter Printed On: 14 June 2014

Printed By: [illegible]

R.L. Science Institute Belgaum 590 001

Principal
R. L. Science Institute
BELGAUM.

| Application Id : 1-2017160733 | | Course | | Affiliating Body | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Program | Shift | Level | | Period | | | | | |
| MCA | 1st Shift | POST GRADUATE | MASTER OF COMPUTER APPLICATIONS | FULL TIME | Rani Channamma University Belgavi | NO | NO | NA | NA | N |

* Validity of the course details may be verified at www.aicte-india.org/departments/approvals

The above mentioned approval is subject to the condition that KLE COLLEGE OF M.C.A, KLE INSTITUTE BELGAUM shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal and subsequently upload and update the student faculty other data on portal as per the time schedule which will be intimated by AICTE.

In case of any differences in content in the Computer generated Extension of Approval Letter, the version/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation - Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Dr. Kuncheria P. Isaac
Member Secretary, AICTE

Copy to:

1. The Regional Officer,
   All India Council for Technical Education
   Health Centre Building
   Bangalore University Campus
   Bangalore - 560 009, Karnataka

2. The Director Of Technical Education
   Karnataka

Application Number: 1-2017160733

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Letter Printed On 14 June 2016

Principal
K. L. Science Institute
BELGAUM.

3. The Registrar,
   Rani Chennamma University, Belagavi

4. The Principal / Director,
   KLE COLLEGE OF M.C.A, RLS INSTITUTE BELGAUM
   LINGARAJ CAMPUS
   COLLEGE ROAD,
   BELGAUM, BELGAUM,
   Karnataka 590001

5. The Secretary / Chairman,
   KARNATAKA, LINGAYAT EDUCATION SOCIETY, BELGAUM
   CHAIRMAN, BOARD OF MANAGEMENT , KLE SOCIETY, COLLEGE ROAD BELGAUM,
   BELGAUM, BELGAUM,
   Karnataka 590001

6. Guard File(AICTE)

Principal
R. L. Science Institute
BELGAUM

**NAAC Peer Team Report**

**Action Taken Report**

| Sl. No. | Recommendations | Action taken |
|---|---|---|
| 1 | Apply for Autonomous Status to the college. | Autonomous status granted in the Year 2012-2013 |
| 2 | To strengthen the Departmental Libraries. | In all 2544 number of Books are added to various Departments during last five years |
| 3 | Efforts to fill the vacant sanctioned posts. | 36 posts are filled by our Management |
| 4 | Internet facility to be expanded to all the students and teachers. | Internet facility is extended to each department, examination section, computer labs, library and office. |
| 5 | Limited Academic flexibility | Two new Subject combinations Mathematics, Economics & Statistics and Mathematics, Electronics & Computer Science are added for UG. PG Course in Physics, Mathematics & Computer Applications have been commenced CBCS is introduced at PG. 22 Certificate courses have started. |
| 6 | To increase the number of papers presentations and publications. | Number of papers presented and published has increased. Presented – 91 Published-57 |
| 7 | Two increase participation of teachers in Seminars/Conferences and Workshops | Participation of teachers in Seminars/Conferences and Workshops is enhanced. Number of Participants – 323 |
| 8 | To enhance the number of MRP's | Numbers of MRPs sanctioned have increased. Number of MRPs – 23 |
| 9 | Collaborative Programmes to be strengthened | Numbers of Collaborations have relatively enhanced. Numbers of Collaborations – 09 |
| 10 | To introduce PG Courses | Three PG Courses have started - Physics, Mathematics and Computer Applications |
| 11 | To commence Advanced Life Science Course at UG Level | At UG level Biotechnology subject is introduced. 22 Certificate courses are introduced among them 06 are related to Life Science |

| 12 | Women's Studies centre to be opened | Under Women Empowerment Cell Awareness Programmes on Legal Literacy, Health and Hygiene, Yoga, Essay competitions on Save Girl Child are conducted. Apart from these, various competitions are conducted to expose their talents. |
|----|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13 | To construct Separate hostel for women students | Separate block of 27 rooms with capacity of 54 students is constructed. |
| 14 | Alumni Association may be made participative in academic developments. | Alumni representatives are a part of BoS and IQAC. Prominent Alumni are invited as Chief Guest for various functions. |
| 15 | To generate more funds to institute on medals and prizes for meritorious | 21 members have instituted endowment cash prizes. Total amount ₹38066/- |
| 16 | To introduce soft skill development programmes to enhance employability | 22 Certificate courses are introduced among them are soft skill development certificate courses like Communication skills, Advanced Communication skills in English and Employability Skill Development etc. |

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BELGAUM.

*Peer Team Report on*

Institutional Re-Accreditation of

## K.L.E. Society's
## Raja Lakhamagouda Science Institute
## Belgaum –590 001
## ( Karnataka )

15 – 16 March 2010

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission
P.O. Box No. 1075, Nagarbhavi, Bangalore – 560072, India

# PEER TEAM REPORT ON
## Institutional Re-accreditation of
## K.L.E. Society's Raja Lakhamagouda Science Institute

| Section I : GENERAL | Information |
|---|---|
| 1.1 Name and address of the Institution : | K.L.E. Society's Raja Lakhamagouda Science Institute, Belgaum – 590 001 , Karnataka |
| 1.2 Year of Establishment : | June 1935 |
| 1.3 Current Academic Activities at the Institution ( Numbers ) | |
| Faculties / Schools : | One Science |
| Departments / Centres : | 10 Science- 07, Arts- 03 |
| Programmes / Courses offered : | UG – 02 , PG – 00, Any other – 02    Total = 04 |
| Permanent Faculty Members : | Permanent Faculty       M:- 29  F:12 Total = 41 (with Ph. D. – 05 )<br><br>Management Appointees<br>Temporary Faculty       M: 04  F: 06 Total= 10 |
| Permanent Support Staff : | Non Teaching – 18    Technical - 01 |
| Students : | UG – 716    PG – 00  Any other – 00<br>Total – 716 |
| 1.4 Three major features in the institutional context : | • The institution has started  need based degree and certificate courses<br>• Good ambience and infrastructural facilities |
| 1.5 Dates of visit of Peer Team : | 15 -16 March, 2010 |
| 1.6 Composition of the Peer Team which undertook the on- site visit: | |
| Chairperson | Prof. R. S. Mali |
| Member  Coordinator | Prin. N.V. Kalyankar |
| Member | Prof. M.R. Srinivasan |
| NAAC Officer, | Dr. Jagannath Patil |

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| Section II :<br>CRITERION WISE<br>ANALYSIS | Observations (Strengths and/or Weaknesses) on Key – Aspects.<br>( Please limit to three major ones for each and use telegraphic language. It is not necessary to indicate all three bullets each time, write only the relevant ones ) |
|---|---|

| 2.1 Curricular Aspects : | |
|---|---|
| 2.1.1 Curriculum Design & Development : | • Being a affiliated college of Karnataka University curricula prescribed by the University are adopted.<br>• Programmes are consistent with the goals and objectives. |
| 2.1.2 Academic flexibility : | • The institution runs 2 UG courses.<br>• Six subject combinations at B.Sc. provides limited academic flexibility.<br>• Flexibility in certificate courses.<br>• Semester system in practice. |
| 2.1.3 Feedback on Curriculum | • Feedback is obtained from students through questionnaires and from alumni, parents, academic peers and community.<br>• Suggestions regarding the course revision are presented to University by the college teachers as members of BOS of the University. |
| 2.1.4 Curriculum Update | • The syllabi are revised periodically as per norms.<br>• The syllabus of Kannada was revised in 2008-09, BCA in 2004-05 and other subjects in 2005-06.<br>• Karnataka University guidelines are followed for re-structuring of the curricula. |
| 2.1.5 Best Practices in Curricular Aspects [If any ] | • The college has introduced Certificate, Diploma, and Add-on courses.<br>• Courses are need based and relevant. |

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| 2.2 Teaching – Learning & Evaluation | |
|---|---|
| 2.2.1 Admission Process and Student Profile : | • Admission process is transparent.<br>• Merit based admissions for aided courses.<br>• Admissions to self-financing BCA course through Entrance Examination and interviews. |
| 2.2.2 Catering to the diverse needs: | • Tutorial classes are part of regular teaching – learning process.<br>• Mentoring system in operation.<br>• The institute caters to the needs of differently abled students. |
| 2.2.3 Teaching –Learning Process : | • Modern teaching aids are used to support regular methods.<br>• Projects are undertaken by students.<br>• Teaching plan is prepared by teachers. |
| 2.2.4 Teacher Quality : | • Qualified teachers are selected as per UGC and State Government norms.<br>• Qualified teachers are appointed by Management for self financing courses.<br>• Teachers are encouraged to participate in conferences, seminars, workshops and research activities. |
| 2.2.5 Evaluation Process and Reforms : | • Semester system in practice.<br>• Internal tests are conducted. |
| 2.2.6 Best Practices in Teaching-Learning and Evaluation ( If any ) | • Seminars are organized regularly for students.<br>• Evaluation of teachers by students.<br>• Parent-Teacher meeting regarding performance of students |

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| 2.3 Research, Consultancy & Extension : | |
|---|---|
| 2.3.1 Promotion of Research: | • The college has research cell which co-ordinates and monitors research activities.<br>• Institution promotes students research activity. |
| 2.3.2 Research and Publications Output: | • Some of the faculty members have presented papers in conferences and published a few research papers.<br>• Two minor research projects have been completed and eight are ongoing. |
| 2.3.3 Consultancy : | • Some faculty members provide honorary consultancy services. |
| 2.3.4 Extension Activities : | • Extension activities are carried out by NCC, NSS and other students of College also.<br>• Camps for Blood Donations and Pulse-Polio are organized.<br>• Local community benefits from such extension activities. |
| 2.3.5 Collaborations : | • The institution has some collaborative programmes with Local and State-level organizations.<br>• There is an agreement of the college with Ayurved Mahavidyalaya, CEDOK, Microsoft and DELNET. |
| 2.3.6 Best Practices in Research, Consultancy and Extension ( If any ) | • Active NCC and NSS units.<br>• NCC cadets have received prizes and Gold Medals at National level.<br>• Teachers are encouraged to participate in seminars and workshops. |

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| 2.4 Infrastructure and Learning resources : | |
|---|---|
| 2.4.1 Physical Facilities for Learning : | • The college has very good infrastructure, well equipped laboratories, staff room and gallery halls.<br>• Good facilities for co-curricular and extra curricular activities.<br>• A mechanism for optimal use of infrastructure. |
| 2.4.2 Maintenance of Infrastructure : | • Budget allocation is made for maintenance of infrastructure.<br>• Engineering section of the society looks after the regular repair and maintenance work. |
| 2.4.3 Library as learning Resources : | • The central library of the college follows open access system.<br>• Adequate number of Books and journals are accessible to students.<br>• More books are provided to poor students through "Poor Students Lending Library"<br>• College has access to online journals through DELNET. |
| 2.4.4 ICT as Learning Resources : | • There are 140 computers in the college.<br>• Provision is made for updating computers and AMC for maintenance.<br>• Centralized computing facility with 10 computers. |
| 2.4.5 Other Facilities : | • Hostel has provision for 22 male and 77 female students.<br>• The college has good sports facilities.<br>• Students are encouraged to participate in sports competitions and cultural activities. |
| 2.4.6 Best Practices in the development of Infrastructure and Learning Resources (If any) | • Partial Automation of library by e-lib Software.<br>• Regular updation of the College website. |

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| | |
|---|---|
| **2.5  Student Support and Progression:** | |
| 2.5.1 Student Progression : | • The results of students in final examinations are good, B. Sc. 65-83% and BCA 85-100%.<br>• Students get Distinctions and Ranks in University examinations. |
| 2.5.2 Student Support : | • Financial support is provided to the needy students.<br>• Placement Cell, Grievance Redressal Cell, Women Empowerment Cell and Students Counseling Cell are established in the college.<br>• Provision is made for acquiring computer skills for students. |
| 2.5.3 Student Activities : | • The institution has a registered Alumni association.<br>• Students participate in sports activities at inter collegiate, inter university and zonal levels.<br>• Meritorious students are felicitated on Foundation Day.<br>• College Magazine is published annually. |
| 2.5.4 Best Practices in Student Support and Progression : | • The institution has a mechanism for student counseling.<br>• The institute has various academic associations which organize academic activities. |

| | |
|---|---|
| **2.6  Governance and Leadership :** | |
| 2.6.1 Institutional Vision and Leadership : | • The vision and mission is in tune with the objectives of the institution.<br>• The head of the institution and management of the institution, hold regular meetings with the faculty and students.<br>• Effective leadership is provided by the Principal. |

| | |
|---|---|
| 2.6.2 Organizational Arrangements : | • Management Committee of KLE society is the highest decision-making authority.<br>• The responsibilities of head of the Institution and the Local Governing Body are decided by the Board of Management.<br>• Decentralized administrative system is adopted.<br>• The management meets the staff of the institution at least twice a year. |
| 2.6.3 Strategy development and deployment : | • Teachers are encouraged to participate in academic activities to upgrade their knowledge and skill.<br>• Academic programmes, and future plans prepared by IQAC are discussed in staff meetings.<br>• Various committees and associations are formed for smooth conduct of curricular, co-curricular and welfare activities. |
| 2.6.4 Human Resource Management : | • Performance assessment of the faculty is done through the feedback from students and HODs.<br>• Group Insurance facility to all the faculty and students by KLE.<br>• Financial support to teachers for attending seminars and conferences. |
| 2.6.5 Financial Management and resource Mobilization : | • Salary grant is received from the government for permanent staff.<br>• The institution is efficient in resource mobilization.<br>• Regular auditing of accounts through Internal auditor and Chartered Accountant in practice. |
| 2.6.6 Best Practices in Governance and Leadership : | • Management is supportive.<br>• Sufficient provision for infrastructure development.<br>• Good co-ordination exists among Departments in the activities of the institute. |

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| 2.7 Innovative Practices : | |
|---|---|
| 2.7.1 Internal Quality Assurance System : | • The institute makes concerted efforts for quality assurance through IQAC.<br>• Bridge courses are conducted for weaker students.<br>• Internal assessment tests, home assignments and tutorials are conducted regularly.<br>• Soft skill programmes are conducted for students. |
| 2.7.2 Inclusive Practices : | • Financial assistance is provided to poor students through 'Students Aid Fund"<br>• Candidates from disadvantaged sections are sympathetically considered for adhoc appointments.<br>• Yoga and meditation camps are arranged for staff and students.<br>• Mentor system in practice to record the incremental academic growth of the students. |
| 2.7.3 Stakeholder Relationships : | • Students and stakeholders are involved in planning various activities.<br>• Community oriented activities are organized regularly.<br>• Cordial relationship exists between teachers and students. |

| Section III : OVERALL ANALYSIS | |
|---|---|
| 3.1 Institutional Strengths : | • Library has good number of books and journals.<br>• Collaborations and linkages with some institutions.<br>• Overall good infrastructural facility.<br>• Consistently good results in B.Sc. and BCA examinations. |
| 3.2 Institutional Weaknesses : | • Absence of advanced life-science courses at UG level.<br>• Absence of courses at PG level.<br>• Library automation through standard software. |

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| 3.3 Institutional Challenges | • Job oriented new UG and PG courses could be introduced. <br> • Undertake research activities. |
|---|---|
| 3.4 Institutional Opportunities : | • Increased participation of teachers in workshops and conferences. <br> • There is scope for introduction of relevant UG and PG courses. <br> • Good scope for strengthening outreach programmes. |

### Section IV : RECOMMENDATIONS FOR
### QUALITY ENHANCEMENT OF THE INSTITUTION

- The college may initiate the procedure for Autonomous Status to the college.
- Departmental libraries may be strengthened.
- Efforts should be made to fill the vacant sanctioned posts.
- Internet facility may be expanded to all students and teachers.
- Teachers should be encouraged to undertake more Minor and Major research projects.
- Collaborative activities need to be strengthened.
- Women's Studies Centre to be opened.
- A separate hostel building could be constructed for women students by seeking UGC funds.
- The Alumni Association may be made participative in the academic development of the institution.
- Generate more funds to institute on medals and prizes for meritorious students.
- Introduce soft skill development programmes on a wider scale for enhanced employability.
- To introduce PG courses in Basic Sciences, Commerce and Management.

I agree with the Observations of the Peer team as mentioned in this report.

Signature of the Head of the Institution
Principal
R. L. Sc. Institute, Belgaum

Signatures of the Peer Team Members:

| Name and Designation | | Signature with Date |
|---|---|---|
| Prof. R. S. Mali<br>(Former Vice Chancellor, North Maharashtra University) B-2, Surajban Housing Society, Aundh Road, Pune- 411007 | Chairperson | 16/3/10 |
| Prin. Dr. N. V. Kalyankar<br>Yeshwant Mahavidyalaya<br>Nanded - 431 605 | Member Coordinator | |
| Prof. M. R. Srinivasan<br>Dean,<br>Department of Statistics,<br>University of Madras<br>Chennai - 600 005 | Member | |
| Dr. Jagannath Patil<br>Deputy Advisor<br>NAAC, Opp. NLSIU, Nagarbhavi,<br>Bangalore - 560 072 | Coordinator | |

Place: Belgaum, Karnataka

Date : 16 March, 2010

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Padma Bhushan Prof. U.R. Rao, Chairman ISRO interacting with Staff and Students

# Master Plan of the Campus