K. L. E. Society's
RAJA LAKHAMAGOUDA SCIENCE INSTITUTE, BELAGAVI
(AUTONOMOUS)

(Re-Accredited at the 'A' level by NAAC)

REGULATIONS FOR ADMISSION AND SCHEME OF EXAMINATIONS

FOR THE UNDER GRADUATE DEGREE PROGRAMME

B. Sc. AND BCA

CBCS SYSTEM

(AUTONOMOUS SEMESTER SCHEME)

WITH EFFECT FROM THE ACADEMIC YEAR 2020-21

K.L.E   Society's
RAJA LAKHAMAGOUDA SCIENCE INSTITUTE, BELAGAVI.

(An Autonomous Institution)

Permissions:

i.   University Grants Commission, New Delhi, Guidelines for Autonomous Colleges during the Xth Plan period (2002-2007)

ii. UGC Letter No. F.22-1/2010(AC)/dated 13th October 2010

iii. Rani Channamma University, Belagavi, Statute on Autonomous Colleges No. RCU/Belagavi/CDC/2106/ dated 04th November 2011

iv. Government of Karnataka Letter No. ED 83 UNE 2012 dated 01/03/2012

Regulations and Scheme of Examination for the Under Graduate Degree Programme (B. Sc. And BCA) CBCS SYSTEM with effect from the academic year 2020-21.

A NOTE ON THE AUTONOMOUS SYSTEM

The University system, having become somewhat unwieldy with the proliferation of a large number of colleges, it was decided to offer Colleges with a proven record of excellence in education a certain measure of autonomy.

Under the autonomous system, such colleges were invited to modernize their curricula, offering programmes of a higher standard than usual, determining their own courses of study and to continually redesign these courses to accord with the changing needs of society and the students.

Such colleges were also allowed the freedom to evolve quicker and more transparent methods for the conduct of examination, assessment of performance and notification of results.

These autonomous colleges are expected to fully use modern tools of education technology to achieve higher standards, engender creativity and to serve community development at the local level and society as a whole.

The University Grants Commission has formulated Guidelines for adoption of uniform Choice-Based Credit System (CBCS) across all the Higher Education Institutes (HEI) in the country and asked all the universities to implement them in all the under-graduate and post-graduate programmes. The State Higher Education Council has also communicated general

guidelines in this regard. The credit based semester system provides flexibility in designing curriculum and assigning credits based on the course content and hours of teaching. The choice based credit system provides a 'self-service' type approach in which the students can take courses of their choice, learn at their own pace, undergo additional courses and acquire more than the required credits, and adopt an interdisciplinary approach to learning. Thus the Choice Based Credit System make the outcome of the university/colleges at par with the global practices in terms of academic standards and evaluation strategies, retaining the present structures of the undergraduate and post-graduate programmes. In this context it is essential that the HEI's in India should follow this system so that the mobility of their learned wards becomes possible both within and across the countries. The overall outcome of the successful students, curriculum stress upon on variety of courses to enhance their knowledge in several core courses including those in languages, subjects in Science and value-based and skill development courses.

The significant Features of the Credit Based Semester Scheme: Each course shall carry certain number of credits. Credits normally represent the weightages of a course and are a function of teaching, learning and evaluation strategies such as the number of contact hours, the course content, teaching methodology, learning expectations, maximum marks etc.

The general features of the Credit Based Semester Scheme are
  a)   The relative importance of subjects of study is quantified in terms of credits
  b)   The subjects of study include ability enhancement, core, elective and skill enhancement courses
  c)   The programme permits horizontal mobility in course selections
  d)   The students shall take part in co-curricular and extension activities
  e)   The declaration of result is based on the Aggregate Percentage of marks obtained as well as on Aggregate or Cumulative Grade Point Average (CGPA) earned

1. **TITLE AND COMMENECEMENT:**
a. These Regulations are called "The Regulations governing the Choice Based Credit System (Semester Scheme) in the Under-graduate Degree Programmes B.Sc. and BCA.
b. These regulations shall come into force for the award of the degrees from the academic year 2020-21.

2. **DURATION OF THE PROGRAMME:** Unless and otherwise specified, a Bachelor's degree programme shall extend over six semesters (Three academic years). A candidate can avail a maximum often semesters - six years (in one stretch) to complete Bachelor's degree (including blank semesters, if any). Wherever a candidate opts for blank semesters, he/ she have to study the prevailing courses when he/she continues his/ her studies.

3. **DEFINITIONS OF KEY WORDS:**

1. **"Degree"** means Under Graduate Degree.

2. **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.

3. **Semester:** Each semester will consist of 15-18 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be scheduled from June to November and even semester from December to May.

   Blank semester: A semester is said to be blank semester for a candidate if he/she does not enroll for that semester.

4. **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses (core, elective or skill enhancement courses etc.).

5. **Programme:** A programme leading to award of a Degree or certificate.

6. **Course:** Usually referred to, as 'papers' is a component of a programme. All courses need not carry the same weightage. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ project work/ vocational training/viva/ seminars/term papers / assignments / presentations/ self-study etc. or a combination of some of these.

7. **"College"** means "Raja Lakhamagouda Science Institute, (Autonomous), Belagavi".

8. **"Student"** means, "a candidate admitted to the Bachelor's Degree Programme in B.Sc. and BCA.

9. **"Academic Council"** means Academic Council of Raja Lakhamagouda Science Institute, (Autonomous) as specified by UGC (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018. F No. 1-1/2012(AC).

10. **"Board of Studies"** means Board of Studies of the College in the discipline/subjects concerned as specified by UGC (Conferment of Autonomous Status upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018. F No. 1-1/2012(AC).

11. **"Controller of Examinations"** means the Controller of Examinations of the College appointed by the Chief Controller of Examinations as specified by UGC (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2018. F No. 1-1/2012(AC).

12. **Credit:** A credit is a unit of study of a fixed duration. In terms of credits, every one hour session of lecture amounts to one credit (**except, in case of English/Hindi/MIL Communication, where every two hour session of lecture amounts to one credit**) every one-hour session of tutorial amounts to one credit and every two-hour session of practical amounts to one credit.

13. **Grade Point:** It is a numerical weightage allotted to each letter grade on a 10-point scale.

14. **Credit Point:** It is the product of grade point and number of credits for a course.

15. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters O, A+, A, B+, B, C, P and F.

16. **Semester Grade Point Average (SGPA):** It is a measure of performance of work done in a semester. It is a ratio of total credit points secured by a student in various courses registered in a semester and the total course credits obtained during that semester. It shall be expressed up to two decimal places.

17. **Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student in all semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.

18. **Transcript or Grade Card or Certificate:** Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured and extra credits procured if any).

19   **Course composition:** It shall have three components associated with the teaching-learning process of the course, namely L, T and P. L stands for Lecture session, T stands for Tutorial Session and P stands for Practical Session.

20   **Tutorial:** A tutorial is a supplementary practice to any teaching-learning process that may consist of participatory discussion/ self study/ desk work/ seminar presentations by students and such other novel methods that make a student to absorb and assimilate more effectively the contents delivered in the lecture classes.

21   **Practical:** A practical is a method of imparting education that consists of hands-on experience/ laboratory experiments that equip students to acquire the required skill component.

4.   COURSE PATTERNS AND SCHEMES OF EXAMINATIONS

The details of Course Patterns (hours of instructions per week) and the Schemes of Examinations of the different degree programmes are given in **APPENDIX "A".**

4.1   STUDY PATTERN (SUBJECTS):

As per the UGC CBCS guideline subjects of study shall comprise the following components.

4.2   Ability Enhancement Courses (AEC): May be of two kinds:

Ability Enhancement Compulsory Courses (**AECC**) are the mandatory courses based upon the content that leads to Knowledge enhancement –As per UGC circular D.O. No.F.13-1/2000(EA/ENV/COS-1) dated 22nd May 2019. This includes English/Hindi/MIL Communication and Environmental Science.

Skill Enhancement Courses (**SEC**): SEC courses are aimed at providing hands-on training, competencies, and skills. A Skill Enhancement Course (SEC) is a special course involving an application of knowledge to explore a real-life situation. These courses may be chosen from a pool of courses or such courses defined/designed by the institution from time to time to provide value-based and/or skill-based knowledge and this course should contain either theory or practical or both.

Discipline Specific Course (DSC): Is a core course, which should be compulsorily studied by a candidate as a core requirement.

Elective Course (EC): Is a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline/ subject of study or which provides an extended scope or which enables an exposure to some other discipline/subject/domain or nurtures the candidate's proficiency/skill.

Discipline Specific Elective (DSE): Is a course offered under the main discipline/subject of study or a Project/Dissertation work.

4.3 Audit Credits

4.3.1 Mandatory Value Added Courses

Institution offers value added courses during undergraduate degree programme which are mandatory for all the students but not considered for SGPA and CGPA

4.3.2 Optional credit courses (Co-curricular and Extension Activities)

The credits under 4.2.2 are not considered to calculate the SGPA and CGPA

Particular	Activities	Credits
Sports/Yoga (Any one)	Representation in Sports at University Level / National Level	1
	Representation in Sports at International level/ University Blue's	2
NCC/NSS (Any one)	NCC (Participation in annual camp)	1
	NCC (with B certificate/ C certificate award)	1
	National Social Service Scheme (Participation in college/University camp)	1
	NSS / NCC participation in Republic day parade	2
	National integrity tour (NIT)	2
Research	Research paper presentation at National/International seminars/Conferences	1
Co curricular / extracurricular activities (Any one)	Representing College in cultural and co-curricular activities/ extracurricular activities/competitions at University level / State level	1
	Participation in cultural and co curricular activities/ extracurricular activities/competitions at National/ International level	2
UGC E-Learning	SWAYAM / UGC MOOCs	2

5   ELIGIBILITY FOR ADMISSION
5.1   Eligibility for Admission to B.Sc. Programme

- A candidate who has passed two year Pre-University (Science) examination of the Karnataka State or any other examination Board considered as equivalent thereto is eligible for admission to I Semester B.Sc. Programme.

- A candidate who has passed the three year Diploma (10+3) in Electronics and Communication Engineering / Computer Science / Electronics and Telecommunication / Instrumentation or any cognate branch from the Directorate of Technical Education

Government of Karnataka are eligible for admission to First Semester B.Sc. in PMCs, PME, PMS combinations.

- A Candidate who has passed 3 years Diploma in Paramedical course and DMLT conducted by Department of Technical Education, Government of Karnataka is eligible for admission to First Semester B.Sc. in CBZ, CZBt, CBBt combinations.

5.2 Eligibility for Admission to B.C.A. Programme

- A candidate completing PUC (Science/Commerce) or three years Diploma in engineering by Govt. of Karnataka or any other examination considered as its equivalent is eligible for admission to I Semester B.C.A. Programme.

5.3 A candidate may be refused admission if he/she is found to have indulged in antisocial activities, debarred from other institutions and unlawful demonstrations. If such students are found after admission they may be expelled.

6. INTAKE: The Principal shall fix the intake for each course and combination in consultation with the concerned Heads of the Departments. Combination-wise intake for U.G. programmes shall be as approved by the Governing Body on the recommendation of the Academic Council of the Raja Lakhamagouda Science Institute (Autonomous) Belagavi.

7. ADMISSION: The admission to a UG programme shall be as per the guidelines issued by the Department of Collegiate Education, Government of Karnataka and guidelines of the college.

8. MEDIUM OF INSTRUCTION: The medium of instruction and Examination is in English. This rule is not applicable to language papers.

9. SCHEME OF INSTRUCTIONS:

9.1 A course shall have either or all the three components. That means a course may have only lecture component, or only practical component or combination of any two components. The total credits earned by a student at the end of the semester upon are $L + T + P$. The credit pattern of the course is indicated as L: T : P. [If a course is of 2 to 6 credits then the different credit distribution patterns in L : T : P format shall be:

L:T:P	L:T:P	L:T:P	L:T:P	L:T:P	L:T:P	L:T:P	L:T:P	L:T:P	L:T:P
4:0:2	2:0:0	0:0:2	2:0:2	3:0:0	2:1:0	3:1:0	3:0:2	1:1:0	1:0:1

9.2 The credit pattern for a course can be decided by the respective BOS followed by the approval of Academic Council.

9.3 A course of 3 to 6 credits will be evaluated for 100 marks. A course with less than 3 credits will be evaluated for 50 marks. *However, in case of languages English/Hindi/MIL Communication, A course of 2 credits will be evaluated for 100 marks.*

10. ATTENDANCE:

10.1 Each semester shall be taken as a unit for the purpose of calculating attendance. A student shall be considered to have put in the required attendance for the semester, if he/ she have attended not less than 75% of the number of working hours/ period in each semester.

10.2 A candidate who does not satisfy the requirement of attendance shall not be eligible to take examination of the concerned semester.

10.3 A candidate who fails to satisfy the requirement of attendance in a semester shall repeat that semester when offered in the immediate subsequent year. This facility shall be available only for two times in the entire programme.

10.4 In case of a candidate who represents the institute at University/State/ National level in Sports/ NCC/ NSS / Scouts & Guides/ Cultural or any official activities, shortage of attendance up to a maximum of 15 days in a semester may be condoned by the Principal. For this purpose, the candidate should have been recommended by the Head of the concerned activity and with prior permission of the Principal.

10.5 The students absent on health grounds need to submit the medical certificate issued by the **Government medical officer**.

10.6 The Head of the Department shall notify the monthly attendance of students in the first week of every month.

10.7 The HOD shall announce the names of all students who will not be eligible to take the end-semester examinations in the various courses and send a copy of the same to the Controller of Examination.

11. INTERNAL ASSESSMENT:

11.1 Total marks for each course shall be based on continuous assessments and end term examinations. A uniform pattern of 30:70 for Continuous Internal Assessment (CIA) and Semester End Examinations (SEE) respectively is followed.

Outline for CIA

Activities	CIA 1 (8th Week of the semester)	CIA 2 (12th Week of the semester)	CIA 3	Total Marks
Session Test	10%	10%	-	20%
Projects/Seminars/Field Visits/Problem Based Learning/Peer Teaching/Viva-Voce/Article review/Book Review/MCQ Test/Case St udy/Survey/ etc.	-	-	10%	10%
Total	**10%**	**10%**	**10%**	**30%**

Continuous assessment (CIA1+CIA2+CIA3) = 30%

Semester End Examination (SEE) = 70%

Total Marks for each course (CIA + SEE) = 100%

* This assessment pattern will be applicable for both Theory and Practical courses

11.2 Evaluation process of CIA marks shall be as follows.

a) The office of Controller Of Examinations (COE) shall supervise the entire process of CIA. The College Examination Committee will conduct the CIA.

b) Continuous Internal Assesment-1 (CIA-1) is for 10% of maximum marks. This will be based on session test of one hour in case of theory.

c) Continuous Internal Assesment-2 (CIA-2) is for 10% of maximum marks. This will be based on session test of one hour in case of theory.

d) Continuous Internal Assesment-3 (CIA-3) is for 10% of maximum marks. This assessment and score process should be implemented and completed during the semester period depending on the type of key assessment a particular student undergoing.

e) Continuous Internal Assessment- Practical course is for 30% of maximum marks after the completion of practicals in each course. There shall be one Continuous Internal Assessment for the Practical test of three hours in each course in each semester.

f) Semester End Examination for 70% of 3 hours duration shall be conducted during the 16th – 20th week of the semester for each course.

g) In case of a student who has failed to attend the CIA1 or CIA2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student

who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the college examination committee / Principal through proper channel. The college examination committee / Principal in consultation with the concerned Departments shall decide about the genuineness of the case and recommend to COE to arrange for the special test to such candidate after the completion of CIA2. This provision shall be availed by the students for either CIA 1 or CIA 2.

h)   The marks of the internal assessment shall be published on the notice board of the department / college for information of the students and each of them shall acknowledge the same.

i)   There shall be no minimum marks in respect of internal assessment.

j)   Internal assessment marks shall be shown separately in the marks card. A candidate, who has failed or rejected the result, shall retain the same internal assessment marks.

12.   REGISTRATION FOR EXAMINATIONS:

A candidate shall register for all the papers of a semester when he/she appears for the examination of that semester for the first time.

13.   CONDUCT OF EXAMINATIONS:

13.1 There shall be Theory and Practical examinations at the end of each semester, ordinarily during November/December for odd semesters and during April/May for even semesters, as prescribed in the Scheme of Examinations.

13.2 Unless otherwise stated in the schemes of examination, practical examinations shall be conducted at the end of each semester. They shall be conducted by two examiners, one internal and one external or both external examiners and shall never be conducted by both internal examiners. The statement of marks sheet and the answer books of practical examinations shall be sent to the Controller of Examinations by the Head of the Departments immediately after the practical examinations.

13.3 The candidate shall submit the record book for practical examination duly certified by the staff in-charge and the H.O.D.

14.   MINIMUM FOR A PASS:

14.1 The candidate should secure minimum of 40% of marks in SEE. A candidate should secure minimum of 40% of marks in CIA1, CIA2, CIA3 and SEE put together. The candidate with pending option shall complete SEE component within specified duration by reappearing only for SEE component of that course and he/ she carries the same marks awarded inC1, C2 and C3.

14.2 If a candidate fails in a subject, either in theory or in the practical, he/she shall appear for that subject only at any subsequent regular examination, within the maximum period prescribed for completing the programme.

14.3 Award of Grace Marks

i. For mere passing a total of 5 grace marks shall be given to a student with a maximum of 2 marks in a course / paper so that the student passes the whole examination by such gracing (limited to 3 courses / papers only).

ii. A maximum of 10 grace marks shall be given to a student to place him in First class or First class with Distinction as the case may be at the end of the completion of the course.

iii. Grace marks given for passing the examination are shown only in the ledger and not in the statement of marks.

iv. However the grace marks awarded for getting a higher class shall be indicated in the marks cards along with the aggregate total of the examination.

14.4 Makeup Examinations

Makeup examinations (only for SEE) shall be conducted only for 5th and 6th semesters for UG and 3rd and 4th semesters. This examination shall be conducted by the college after 21 days from the date of notification of final semester results (6th semester for UG and 4th semester for PG). There shall be notification for the Makeup Examinations from office of COE well in advance. The Makeup examination can be availed by the students by paying the prescribed fees.

15. CARRY OVER:

A candidate who fails in a lower semester examination may go to the higher semester.

16. CLASSIFICATION OF SUCCESSFUL CANDIDATES: CLASS & GRADES

The results of successful candidates at the end of each semester shall be declared on the basis of Percentage of Aggregate Marks and in terms of Semester Grade Point Average (SGPA) and Eight Point Alpha – Sign Grading Scale. The results at the end of the fourth semester shall also be classified on the basis of Percentage of Aggregate Marks and on the basis of the Cumulative Grade Point Average (CGPA) obtained in all the four semesters and the corresponding overall alpha – sign grade. An eight point grading system, alpha – sign grade as described in Tables I and II below shall be adopted. The Semester Grade Point Average (GPA) in a Semester and the Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be computed as follows:

16.1   Computation of Semester Grade Point Average (SGPA):

The grade points (GP) in a course shall be assigned based on the basis of actual marks scored in that course as per the Table I. The Credit Points (CP) shall then be calculated as the product of the grade points earned in the course and the credits assigned for the course. The total CP for a semester is obtained by adding the CP of all the courses of the semester. The SGPA for a semester is computed by dividing the total CP of all the courses of study by the total credits for the semester.

Credit Points for the paper (CP)	=	No. of Credits assigned for the Course	×	Grade Point secured for that Course

SGPA = Total CP of all the courses/ Total Credits

16.2   Calculation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) at the end of the fourth semester shall be calculated as the weighted average of the semester grade point averages (SGPA). The CGPA is obtained by dividing the total of semester credit weightages by the maximum credits for the programme.

CGPA is calculated only when the candidate passes in all the courses of all the semesters.

$$CGPA = \frac{\sum \text{Total credit points in I to IV Semesters}}{\sum \text{Total credits in I to IV Semesters}}$$

Table I: Conversion of Percentage of Marks into Grade Points in a Paper

%Marks in a paper/practical	Grade Point (GP)
90-100	**10**
80-89.9	**9**
70-79.9	**8**
60-69.9	**7**
50-59.9	**6**
45-49.9	**5**
40-44.9	**4**
<40	**0**

Table II: Final Result / Grades Description

SGPA / Prog. CGPA	Alpha- Sign / Letter Grade	Result / Class Description
9.00 – 10.00	O (Outstanding)	First Class With Distinction
8.00 – 8.99	A+ (Excellent)	
7.00- 7.99	A (Very Good)	
6.00- 6.99	B+ (Good)	First Class
5.00-5.99	B (Above Average)	Second Class
4.50-4.99	C (Average)	Pass Class
4.00-4.49	P (Pass)	
< 4.00	F (Fail)	Fail
0	AB	

16.3 The candidates who pass all the semester examinations in the first attempt only are considered for the award of rank.

16.4 The results of the candidates who have passed the V/VI semester examination but not passed the lower semester examinations shall be declared as NCL (Not Completed Lower semester examinations). Such candidates shall be eligible for the degree only after completion of all the lower semester examinations.

17. IMPROVEMENT OF RESULTS:

17.1 A candidate may be permitted to opt for improvement of results (Papers / Courses) of any semester. The candidate who had opted for the improvement of results shall appear for the subsequent semester examinations.

17.2 The improvement option shall be exercised only once in each semester

17.3 Improvement examinations marks will be considered if the marks scored in the improvement examinations is higher than the previously secured marks. Otherwise previous marks will be retained.

17.4 Application for Improvement examinations along with the payment of the prescribed fee shall be submitted to the Controller of Examinations together with the original statement of marks.

17.5 A candidate who opts for Improvement of result is not eligible for ranking.

18. TRANSFER OF ADMISSION: Transfer of admissions is permissible only for the students of III and V semesters.

18.1 Conditions for transfer of admission of students within the University.

    a. His/her transfer admission shall be within the intake permitted to the college.

    b.   Availability of same combination of subjects studied in the previous college.

    c.   He/she shall fulfill the attendance requirements as per the Regulation.

    d.   He/she shall complete the programme as per the regulation governing the maximum duration of completing the programme.

18.2 Conditions for transfer admission of students of other Universities.

    a.   A Candidate migrating from any other University may be permitted to join III/V semester of the degree programme provided he/she has passed all the subjects of previous semesters / years as the case may be. Such candidates must satisfy all other conditions of eligibility stipulated in the regulations of Rani Channamma University.

    b.   His / Her transfer admission shall be within the intake permitted to the college.

    c.   He/she shall fulfill the attendance requirements as per the University Regulation.

    d.   The candidate who is migrating from other Universities is eligible for overall class and not for ranking.

    e.   He / She shall complete the programme as per the regulation governing the maximum duration of completing the programme as per this regulation.

19.   SETTING OF QUESTION PAPERS AND EVALUATION PROCESS:

19.1 There shall be a Board of Appointment of Examiners (BOAE) consisting of

    a. Principal/ Chief Controller of Examinations.

    b. Controller of Examinations

    c. BOE Chairman

19.2 The BOAE shall appoint the Board of Examiners (BOE) from the panel of examiners prepared by the Department Council and approved by BOS for each course.

19.3 There shall be one chairman, BOE for each semester (for all papers in that semester) appointed on rotation basis by the concerned Department council based on the seniority. The chairman, BOE, shall be responsible for conducting BOE meetings (Question Paper Scrutiny) / any other such duties related to examinations.

19.4 There shall be two to three sets of question papers for each course, of which at least one shall be set by an external examiner.

19.5 Whenever the Controller of Examinations feels shortage of internal examiners, both sets of the question papers shall be set by external examiners.

19.6 The chairman, BOE, and an External Member shall scrutinize all the Question Papers during BOE Meeting. Any discrepancies / errors in the question paper should be brought to the notice of the Controller of Examinations and rectified.

19.7 There shall be double valuation for all theory papers, practical courses/ project, one by Internal & one by External examiner. The average of the marks awarded by the internal and external examiners shall be taken as the final marks (subject to 19.9) for that particular course. Whenever there are no sufficient internal examiners, both valuations should be done by external examiners.

19.8 In practical examination / project evaluation, both examiners shall submit a consolidated marks sheet / report in a sealed cover to the Controller of Examinations at the end of last session.

19.9 In case of theory papers, difference of marks awarded by the internal and external evaluators is more than 15% (out of total marks allocated in SEE), such script shall be referred to the third evaluator (external examiner other than the previous examiners subjected to availability) selected by the controller of examinations. For the final award of marks, the average of nearest two from three shall be considered. In case, the difference between of marks obtained in all three valuations is same, then the average of all shall be considered.

19.10 The pattern of Question Paper shall be as decided by the concerned BOS.

20. DISPOSAL POLICY OF VALUED ANSWER SCRIPTS:

20.1 The valued answer scripts of CIA-1, CIA-2 and CIA-3 shall be maintained in the Department by the Head of Department for at least one year from the date of examination.

20.2 The answer scripts of SEE examination shall be maintained by the controller of Examinations for a period of one year from the date of announcement of the results. After one year and due scrutiny, all the valued answer scripts shall be disposed off following the disposal protocol. Once the answer scripts are destroyed/disposed, no claims what so ever about the disputes over marks awarded/obtained shall be entertained.

21. Photocopy of Answer scripts, Re-totaling and Challenge-valuation

a) A candidate, May apply for Photocopy of his/her theory answer script of SEE examination, by submitting an application along with the prescribed fee. The controller of examination may fix a specific period for the same immediately after the announcement of results.

b) A candidate may apply for Challenge valuation by submitting an application along with the prescribed fee. For this purpose, a notice may be circulated by the COE within the date as notified from time to time by the College.

c) The Challenge valuation shall be referred to external evaluator (other than first/second) by the controller of examinations.

d) The result of Challenge valuation shall be announced within 15 days from the last date fixed for receipt of applications.

22. MISCELLANEOUS:

    22.1 The Institute shall issue such orders, instructions, procedures and prescribe such format as required to implement the provisions of this Regulations.

    22.2 The procedural details will be given by the Institute from time to time.

    22.3 Any unforeseen problems/difficulties may be resolved by the Principal, whose decision in the matter shall be final.

COURSE PATTERNS, SCHEMES OF EXAMINATIONS AND CREDITS

						Examination			
Part	**Subject Code**	**Subject Name**	**Teaching Hrs/ week**	**Practical Hrs/ week**	**Duration Hrs**	**Marks**			**Credits**
						Theory/Practical			
						SEE	**CIA**	**Total**	
Part I AECC		English	4	-	3	70	30	100	2
		MIL (Kan/Hindi)	4	-	3	70	30	100	2
		Environmental Science	2	-	1.5	35	15	50	1
Part II DSC		DSC-1A	4	-	3	70	30	100	4
		DSC-2A	4	-	3	70	30	100	4
		DSC-3A	4	-	3	70	30	100	4
		DSC-1A - Lab	-	4	3	35	15	50	2
		DSC-2A – Lab	-	4	3	35	15	50	2
		DSC-3A - Lab	-	4	3	35	15	50	2
Total			**22**	**12**				**700**	**23**

I Semester B. Sc. With Effect From 2020-21 CHOICE BASED CREDIT SYSTEM (CBCS)

						Examination			
Part	**Subject Code**	**Subject Name**	**Teaching Hrs/ week**	**Practical Hrs/ week**	**Duration Hrs**	**Marks**			**Credits**
						Theory/Practical			
						SEE	**CIA**	**Total**	
Part I AECC		English	4	-	3	70	30	100	2
		MIL (Kan/Hindi)	4	-	3	70	30	100	2
		Indian Constitution	2	-	1.5	35	15	50	1
Part II DSC		DSC-1B	4	-	3	70	30	100	4
		DSC-2B	4	-	3	70	30	100	4
		DSC-3B	4	-	3	70	30	100	4
		DSC-1B - Lab	-	4	3	35	15	50	2
		DSC-2B – Lab	-	4	3	35	15	50	2
		DSC-3B - Lab	-	4	3	35	15	50	2
Total			**22**	**12**				**700**	**23**

II Semester B. Sc. With Effect From 2020-21 CHOICE BASED CREDIT SYSTEM (CBCS)

					Examination			
III Semester B. Sc. With Effect From 2020-21 **CHOICE BASED CREDIT SYSTEM (CBCS)**									
Part	**Subject Code**	**Subject Name**	**Teaching Hrs/ week**	**Practical Hrs/ week**	**Duration Hrs**	**Marks** **Theory/Practical**			**Credits**
						SEE	**CIA**	**Total**	
Part I AECC		English	4	-	3	70	30	100	2
		MIL (Kan/Hindi)	4	-	3	70	30	100	2
Part II SEC		SEC - 1	2	-	2	35	15	50	2
Part III DSC		DSC-1C	4	-	3	70	30	100	4
		DSC-2C	4	-	3	70	30	100	4
		DSC-3C	4	-	3	70	30	100	4
		DSC-1C - Lab	-	4	3	35	15	50	2
		DSC-2C - Lab	-	4	3	35	15	50	2
		DSC-3C - Lab	-	4	3	35	15	50	2
Total			**22**	**12**				**700**	**24**

					Examination			
IV Semester B. Sc. With Effect From 2020-21 **CHOICE BASED CREDIT SYSTEM (CBCS)**									
Part	**Subject Code**	**Subject Name**	**Teaching Hrs/ week**	**Practical Hrs/ week**	**Duration Hrs**	**Marks** **Theory/Practical**			**Credits**
						SEE	**CIA**	**Total**	
Part I AECC		English	4	-	3	70	30	100	2
		MIL (Kan/Hindi)	4	-	3	70	30	100	2
Part II SEC		SEC - 2	2	-	2	35	15	50	2
Part III DSC		DSC-1D	4	-	3	70	30	100	4
		DSC-2D	4	-	3	70	30	100	4
		DSC-3D	4	-	3	70	30	100	4
		DSC-1D - Lab	-	4	3	35	15	50	2
		DSC-2D - Lab	-	4	3	35	15	50	2
		DSC-3D - Lab	-	4	3	35	15	50	2
Total			**22**	**12**				**700**	**24**

20

Part	Subject Code	Subject Name	Teaching Hrs/ week	Practical Hrs/ week	Examination					Credits

V Semester B. Sc. With Effect From 2020-21
CHOICE BASED CREDIT SYSTEM (CBCS)

Part	Subject Code	Subject Name	Teaching Hrs/ week	Practical Hrs/ week	Duration Hrs	SEE	CIA	Total	Credits
Part I SEC		SEC - 3	2	2	2	35	15	50	2
		SEC - 3 - Lab	-	4	3	35	15	50	2
Part II DSE		DSE-1E	4	-	3	70	30	100	4
		DSE-2E	4	-	3	70	30	100	4
		DSE-3E	4	-	3	70	30	100	4
		DSE-1E - Lab	-	4	3	35	15	50	2
		DSE-2E - Lab	-	4	3	35	15	50	2
		DSE-3E - Lab	-	4	3	35	15	50	2
Total			**14**	**18**				**550**	**22**

VI Semester B. Sc. With Effect From 2020-21
CHOICE BASED CREDIT SYSTEM (CBCS)

Part	Subject Code	Subject Name	Teaching Hrs/ week	Practical Hrs/ week	Duration Hrs	SEE	CIA	Total	Credits
Part I SEC		SEC - 4	2	2	2	35	15	50	2
		SEC - 4 - Lab	-	4	3	35	15	50	2
Part II DSE		DSE-1F	4	-	3	70	30	100	4
		DSE-2F	4	-	3	70	30	100	4
		DSE-3F	4	-	3	70	30	100	4
		DSE-1F - Lab	-	4	3	35	15	50	2
		DSE-2F - Lab	-	4	3	35	15	50	2
		DSE-3F - Lab	-	4	3	35	15	50	2
Total			**14**	**18**				**550**	**22**

Part	Subject Code	Subject Name	Teaching Hrs/ week	Practical Hrs/ week	Duration Hrs	Theory /Practical	IA	Total	Credits

I Semester BCA With Effect From 2020-21
CHOICE BASED CREDIT SYSTEM (CBCS)

Part	Subject Code	Subject Name	Teaching Hrs/ week	Practical Hrs/ week	Duration Hrs	Examination Marks Theory /Practical	IA	Total	Credits
Part I AECC	1.1	English	4	-	3	70	30	100	2
	1.2	MIL	4		3	70	30	100	2
	1.3	Environmental Studies	2	-	1.5	35	15	50	1
Part II DSC	1.4	C Programming	4	-	3	70	30	100	4
	1.5	Digital Logic and Computer Design	4	-	3	70	30	100	4
	1.6	Web Technology	4	-	3	70	30	100	4
	1.7	C Programming Lab	-	4	3	70	30	100	2
	1.8	Web Technology Lab	-	4	3	70	30	100	2
Total			**22**	**8**				**750**	**21**

II Semester BCA With Effect From 2020-21
CHOICE BASED CREDIT SYSTEM (CBCS)

Part	Subject Code	Subject Name	Teaching Hrs/week	Practical Hrs/week	Duration Hrs	Examination Marks Theory /Practical	IA	Total	Credits
Part I AECC	2.1	English	4	-	3	70	30	100	2
	2.2	MIL	4	-	3	70	30	100	2
	2.2	Indian Constitution	2	-	1.5	35	15	50	1
Part II DSC	2.3	Data Structures Using C	4	-	3	70	30	100	4
	2.4	PHP	4	-	3	70	30	100	4
	2.5	Mathematical Structures	4	-	3	70	30	100	4
	2.6	Data Structures Using C Lab	-	4	3	70	30	100	2
	2.7	PHP Lab	-	4	3	70	30	100	2
Total			**22**	**8**				**750**	**21**

Part	Subject Code	Subject Name	Teaching Hrs/week	Practical Hrs/week	Duration Hrs	Theory /Practical	IA	Total	Credits
III Semester BCA With Effect From 2021-22 **CHOICE BASED CREDIT SYSTEM (CBCS)**									
					Examination				
					Duration Hrs	**Marks**			
						Theory /Practical	**IA**	**Total**	
	3.1	English	4		3	70	30	100	2
Part II DSC	3.2	Java Programming	4	-	3	70	30	100	4
	3.3	Python	4	-	3	70	30	100	4
	3.4	Data Communication	4	-	3	70	30	100	4
	3.5	Operating System	4	-	3	70	30	100	4
	3.6	Java Lab	4	4	3	70	30	100	2
	3.7	Python Lab		4	3	70	30	100	2
Part III SEC	3.8	Unix	-	4	-	-	50	50	2
Total			**24**	**12**				**750**	**24**

Part	Subject Code	Subject Name	Teaching Hrs/week	Practical Hrs/week	Duration Hrs	Theory /Practical	IA	Total	Credits
IV Semester BCA With Effect From 2021-22 **CHOICE BASED CREDIT SYSTEM (CBCS)**									
					Examination				**Credits**
					Duration Hrs	**Marks**			
						Theory /Practical	**IA**	**Total**	
Part II DSC	4.1	English	4		3	70	30	100	2
	4.2	Relational Database Management Systems	4		3	70	30	100	4
	4.3	Software Engineering	4	-	3	70	30	100	4
	4.4	Statistics for Data Analysis	4	-	3	70	30	100	4
	4.5	Cloud Computing	4		3	70	30	100	4
	4.6	Python Lab	-	4	2	70	30	100	2
	4.7	Relational Database Management Systems Lab	-	4	2	70	30	100	2
Part III SEC	4.8	Analytics & Logical Reasoning	2		-	-	50	50	2
Total			**22**	**8**				**750**	**24**

V Semester BCA With Effect From 2022-23 and onwards **CHOICE BASED CREDIT SYSTEM (CBCS)**										
Part	**Subject Code**	**Subject Name**	**Teaching Hrs/week**	**Practical Hrs/week**	**Examination**					**Credits**
					Duration Hrs	**Marks**				
						Theory /Practical	**IA**	**Total**		
Part I DSC/ DSE	5.1	Elective I	4	-	3	70	30	100		4
	5.2	Elective II	4	-	3	70	30	100		4
	5.3	IoT	4	-	3	70	30	100		4
	5.4	Business Intelligence	4	-	3	70	30	100		4
	5.5	Cyber Security	4		3	70	30	100		4
	5.6	IoT Lab	-	4	3	70	30	100		2
	5.7	Elective Lab	-	4	3	70	30	100		2
Part III SEC	5.8	Android Programming		4			50	50		2
Total			**20**	**12**				**750**		**26**

Elective I: 1. Data Analytics 2. CloudSolutionArchitect

Elective II: 1. R Programming 2. CloudInfrastructure

VI Semester BCA With Effect From 2022-23 and onwards **CHOICE BASED CREDIT SYSTEM (CBCS)**									
Part	**Subject Code**	**Subject Name**	**Teaching Hrs/week**	**Practical Hrs/week**	**Examination**				**Credits**
					Duration Hrs	**Marks**			
						Theory /Practical	**IA**	**Total**	
Part I DSC/ DSE	6.1	Elective III	4	-	3	70	30	100	4
	6.2	Elective IV	4		3	70	30	100	4
	6.3	Software Testing	4	-	3	70	30	100	4
	6.4	Elective Lab	-	4	3	70	30	100	2
	6.5	**Project Work**	**2**	**8**		**100**	**50**	**150**	**6**
Part IIISEC	6.6	J2EE			4			50	2
Total			**14**	**12**				**600**	**22**

Elective III: 1. Machine Learning   2. Cloud Services &Security

Elective IV: 1. Big Data Analysis – Using Hadoop 2. Virtual Machine Techniques

UG Programmes Offered:

- **Bachelor of Science (B. Sc)**

  The following programmes are offered by the college

Sl. No.	Combinations	Short Form
1	Physics, Chemistry, Mathematics	PCM
2	Physics, Mathematics, Electronics	PME
3	Physics, Mathematics, Computer Science	PMCs
4	Chemistry, Botany, Zoology	CBZ
5	Chemistry, Zoology, Biotechnology	CZBt
6	Chemistry, Botany, Biotechnology	CBBt
7	Physics, Mathematics, Statistics	PMS
8	Mathematics, Electronics, Computer Science	MECs
9	Mathematics, Statistics, Computer Science	MSCs

Any other combination passed in the BoS, AC and GB may be introduced or deleted.

LIST OF COURSES FOR SEC AND DSE UNDER CBCS (SEMESTER SCHEME)

2020-2021

1. Department of Physics

	Title of SEC
III Semester	Nanomaterials
IV Semester	Renewable Energy Sources
V Semester	Basic Instrumentation
VI Semester	Latex
	Title of DSE
V Semester	1) Classical Mechanics & Electronics
	2) Quantum Mechanics, Spectroscopy & Mathematical Physics
VI Semester	1) Statistical Mechanics, Solid State Physics and Nuclear Physics
	2) Electronics, Analog Communication & C- Programming

2. Department of Electronics

	Title of SEC
III Semester	Electrical Circuits and Network Skills
IV Semester	Signals and Systems
V Semester	Mat Lab
VI Semester	Verilog /VHDL
	Title of DSE
V Semester	1) Analog communication
	2) Microprocessor -8085
VI Semester	1) Digital communication
	2) Microcontroller -8051

3. Department of Chemistry

	Title of SEC
III Semester	Green Chemistry
IV Semester	Fuel Chemistry
V Semester	Chemistry of Cosmetics & Perfumes.
VI Semester	Pharmaceutical Chemistry
	Title of DSE
V Semester	1) Organometallics, Bioinorganic Chemistry, Polynuclear hydrocarbons & UV, IR Spectroscopy
	2) Quantum Chemistry, Spectroscopy & Photochemistry
VI Semester	1) Molecules of Life
	2) Analytical Methods in Chemistry

4. Department of Mathematics

	Title of SEC
III Semester	Set theory and logic
IV Semester	Theory of equations
V Semester	Number Theory
VI Semester	Graph Theory
	Title of DSE
V Semester	1) Numerical Analysis
	2) Dynamics and Calculus of variations
VI Semester	1) Complex Analysis and Analysis-III
	2) Topology, Laplace Transform, Fourier Series & Fourier Transform

5. Department of Statistics

	Title of SEC
III Semester	Business Statistics
IV Semester	Econometrics
V Semester	Actuarial Statistics
VI Semester	R-Programming
	Title of DSE
V Semester	1) Analysis of Variance, Designs of Experiments, SQC
	2) Sampling Techniques.
VI Semester	1) Operation Research-I
	2) Operation Research-II

6. Department of Botany

	Title of SEC
III Semester	Herbal Technology/Biofertiliser
IV Semester	IPR/Floriculture
V Semester	Medicinal Botany/Nursery and Gardening
VI Semester	Mushroom Culture Technology/ Ethonobotany
	Title of DSE
V Semester	1) Economic Botany and Biotechnology
	2) Cell and Molecular Biology
VI Semester	1) Genetics and Plant Breeding
	2) Research Methodology

7. Department of Zoology

	Title of SEC
III Semester	Apiculture
IV Semester	Aquarium Fish Keeping
V Semester	MLTC
VI Semester	Sericulture
	Title of DSE
V Semester	1) Applied Zoology
	2) Cell Biology, Biotechnology, Biostatistics & Research Methodology
VI Semester	1) Reproductive Biology, Ecology, Zoogeography & Wildlife Conservation
	2) Insects, Vectors & Diseases

8. Department of Biotechnology

	Title of SEC
III Semester	Biophysical Techniques
IV Semester	Medical Biotechnology
V Semester	Food and Nutrition technology
VI Semester	Industrial Fermentation
	Title of DSE
V Semester	1) Genetic Engineering & Molecular Biology
	2) Microbial Techniques & Bioinformatics
VI Semester	1) Agricultural & Environmental Biotechnology
	2) Intellectual property rights

9. Department of Computer Science

	Title of SEC
III Semester	Computer Fundamentals
IV Semester	Computer Networks
V Semester	Web Technology & Practical
VI Semester	Computer Graphics & Practical
	Title of DSE
V Semester	1) Python Programming & Practical
	2) Programming in Visual Basic & Practical
VI Semester	1) Software Engineering & Project
	2)

10. Department of BCA

	Title of SEC
III Semester	Unix
IV Semester	Networking
V Semester	Mobile App Development
VI Semester	J2EE
	Title of DSE
V Semester	1) Data Analytics/ Cloud Computing Technical Essentials
	2) R Programming/ Virtualization
VI Semester	1) Big Data Analysis – Using Hadoop / Cloud Services & security
	2) Machine Learning/Virtual Machine Techniques

COMPUTATION OF SEMESTER GRADE POINT AVERAGE (SGPA)
AND CUMULATIVE GRADE POINT AVERAGE (CGPA)

COMPUTATION OF SGPA:

- The Semester Grade Point Average shall be computed by dividing the sum of the Credit Points (CP) of all the subjects of study by the maximum credits for the semester.

- The credit points are in turn calculated as the product of the grade points earned in the subject and the credits assigned to that subject.

   SGPA (Si) = Σ(Ci x Gi) / ΣCi

where Ci is the number of credits of the ith course and Gi is the grade point scored by the student in the ith course.

I Semester Marks:

Course	Credit	Max Marks	Marks Obtained	Grade Point	Grade Letter	Credit Point (Credit × Grade Point)	SGPA Credit Point / Credit
English	2	100	67	7	B+	14	
MIL (Kan/Hindi)	2	100	78	8	A	16	
Environmental Science	1	50	40	9	A+	9	
DSC-1A	4	100	75	8	A	32	**187/23 = 8.13**
DSC-2A	4	100	82	9	A+	36	
DSC-3A	4	100	55	6	B	24	
DSC-1A - Lab	2	50	45	10	O	20	
DSC-2A - Lab	2	50	48	10	O	20	
DSC-3A - Lab	2	50	38	8	A	16	
	23	**700**	**569**			**187**	

Semester Grade Point Average (GPA)

= Total Credit Points/ Maximum Credits for the Semester

= 187 / 23= **8.13**

CALCULATION OF AGGREGATE OR CUMULATIVE GPA (CGPA):

The CGPA at the end of the sixth semester shall be calculated as the weighted average of the SGPA. The CGPA is calculated taking into account all the courses undergone over all the semesters of a programme, i.e. The CGPA is obtained by dividing the total of semester credit weightages by the maximum credits for the programme.

$$\textbf{CGPA} = \Sigma(C_i \times S_i) / \Sigma\ C_i$$

Where S_i is the SGPA of the ith semester and C_i is the total number of credits in that semester.

An illustration is given below.

Semester	Semester I	Semester II	Semester III	Semester IV	Semester V	Semester VI	Total
Credits	23	23	24	24	22	22	138
SGPA	8.13	8.27	7.36	6.54	5.82	8.16	

Cumulative Grade Point Average (CGPA)

= Total of Semester Credit Weightages / Maximum Credits for the programme

= 1018.36 /138 = 7.37

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