K.L.E. Society's

Raja Lakhamagouda Science Institute (Autonomous), Belagavi

2023-2024

B. Sc. - Data Science

Structure of B. Sc. - Data Science

I and II Semester

SEM	SUBCODE	SUBJECT NAME	Hrs./WEEK	CREDIT	MAX MARKS	TYPE
I	23DS101	**DSC-I-**Introduction to Programming Using C	4	4	100	CORE
	23DS102	**DSC-I -Lab** C Programming Lab	4	2	50	PC
	23DS103	**DSC II-** Discrete Mathematics	4	4	100	CORE
	23DS104	**DSC III-**Digital Computer Fundamentals	4	4	100	CORE
	22EL111	Domestic Equipment Maintenance	3	3	100	OEC
	22ST111	Statistical methods				
	21PE101	Physical Education and Yoga	2	1	25	SEC
	21PE102	Health and Wellness	2	1	25	SEC
	21EN101	Generic English-I	4	3	100	AECC
	21KA101	Kannada-I	4	3	100	AECC
	21HI101	Hindi-I				
		Total	**29**	**25**	**700**	
SEM	**SUBCODE**	**SUBJECT NAME**	**Hrs./WEEK**	**CREDIT**	**MAX MARKS**	**TYPE**
II	23DS201	**DSC IV-** Python Programming	4	4	100	CORE
	23DS202	**DSC-IV -Lab** Python Programming Lab	4	2	50	PC
	23DS203	**DSC V-**Introduction to Data Science	4	4	100	CORE
	23DS204	**DSC VI-** Descriptive Statistics	4	4	100	CORE
	22EL211	Consumer Electronics	3	3	100	OEC
	22CS211	Web Designing				
	21PE201	Physical Education and Sports	2	1	25	SEC
	21NCC01	NCC-I	2	1	25	SEC
	21NSS01	NSS-I				
	23KA211	Cultural Activities-I				
	21EN201	Generic English-II	4	3	100	AECC
	21KA201	Kannada-II	4	3	100	AECC
	21HI201	Hindi-II				
	21ES211	Environmental Studies	2	2	50	AECC
		Total	**31**	**27**	**750**	

K.L.E. Society's
Raja Lakhamagouda Science Institute (Autonomous), Belagavi
Department of Data Sciences
B.Sc. I Semester (2023-2024)

23DS101: Introduction to Programming Using C (Core)	
Total No of Teaching Hrs.: 56	Teaching Hrs. Per Week: 4
Credits: 4	Max. Marks: 100

Course Objectives/Course Description

The course provides students with a comprehensive study of C programming language. The course lectures stress the strengths of C, which provides t outcome of writing efficient, maintainable and portable code. Course includes few labexercises to make sure the student has not only gained the knowledge but c also applies and execute it.

Course Objectives

- To study about algorithms, flowcharts and programs
- To solve problems through logical thinking.

Course Outcome

- To clearly understand the logic of the problem.
- To analyze the given problem and write the algorithm, flowchart.
- To write structured C programs, this is the foundation of any programming language.

UNIT 1 Hours: 14

Introduction to Computers and Programming

Evolution of Computers, Generation of Computers, Classification of Computers. Characteristics of Computers. Advantages of Computers. Block Diagram of a Digital Computer. Types of Programming Languages. Structured Programming. Algorithms and Flowcharts with Examples. Programming Logic. Compilation and Excution Process and Language Translators

UNIT 2 Hours: 14

Introduction to C

History of C- Character set - Structure of a C program constants, variables and keywords, Data Types. Expressions – Statements – Operators – Arithmetic, Unary, Relational and logical, Assignment, Conditional. Type Casting and Conversion Library functions. Data Input and output – Single character input, getchar, getch, getc – Single character output putchar, putc, Formatted I/O scanf, printf, gets, puts.

UNIT 3 Hours: 16

Control Structures and Array

Branching: condition: if, if-else, else-if, switch. Looping: while, do-while, for, nested control structures, break, continue statement, goto statement. Arrays: definition, processing, types - One- and Two-dimensional arrays. String, string operations, arrays of strings. Applications of Searching and Sorting.

Functions and Pointers

Functions: Definition, Accessing and prototyping, types of functions, passing arguments to functions, recursion, passing arrays to functions. Pointers: Definition,notation, applications, call by reference.

UNIT 4 Hours: 12

Structures, Unions and Files

Structure**:** Definition, Processing, user defined data type (typedef) - Unions – definition, declaration and accessing union elements. Enumerated Data type. Files: File opening in different modes, closing, reading and writing. (fopen, fclose, fprintf, fscanf, getw, putw.

TEXT BOOK:

1. Byron Gottfried, Jitender Chhabra: Programming with C, 3rd Edition. TataMcGraw- Hill, 2010. 1.

REFERENCE BOOKS

1. Balagurusamy, E. Programming in ANSI C, 4th Edition,Tata McGraw-Hill,2007
2. Deitel H M and Deitel P J, C - How to Program, 5th Edition, Prentice-Hall,2006.
3. Smarajit Ghosh, All of 'C', 2nd Edition, 2009.
4. M. T. Somashekara, Problem Solving with C, PHI, 2009.

C PROGRAMMING LAB

Course Code: 23DS102

No of Lecture ours/Week:4 **Max Marks: 50** **Credit: 2**

Course Objectives/Course Description

To learn problem solving through procedural language programming technique and Understand fundamentals of programming such as variables, conditional and iterative execution, methods, etc.

Learning Outcome

- Read, understand and trace the execution of programs written in Clanguage.
- Write the C code for a given algorithm.
- Implement Programs with pointers and arrays, perform pointerarithmetic, and use the pre- processor.

SL. No	Title
1.	To demonstrate the usage of operators and data types using C. -Size of different types of data. -Basic arithmetic operations onsupplied data.
2.	To demonstrate the usage of if, if...else and switch…case. Use of multiple-choice operations.
3.	Demonstration of Switch Case in Calculator
4.	To demonstrate the concept of while, do-while, for loops, break andcontinue.
5.	To demonstrate the concept of an arrays. - Storage and access of multiple values under one nameand doing aggregation operations.
6.	To demonstrate the concept of an arrays -Binary search in Array -Bubble Sorting the data in an array
7.	Perform Matrix Multiplication using Array
8.	To demonstrate the concept of strings. Different operations on string: strcpy(), strrev(), strlen(),strcmp(),strcat()
9.	To demonstrate the usage of functions and recursion. -To find the Fibonacci Series of n numbers. -To find the Factorial of n numbers.
10.	To demonstrate the concept of unions. -Storage of different types of data - Student Database
11.	To demonstrate the concept of pointers- Swapping of two number
12.	To demonstrate the concept of File. (CRUD operations onrespective database) - Perform Various file Operations

K.L.E. Society's
Raja Lakhamagouda Science Institute (Autonomous), Belagavi
Department of Data Sciences
B.Sc. I Semester (2023-2024)

23DS103: Discrete Mathematics (Core)	
Total No of Teaching Hrs.: 56	Teaching Hrs. Per Week: 4
Credits: 4	Max. Marks: 100

Unit - I — Hours: 14

Mathematical Logic and Predicates

Mathematical logic: Statements and notations, connectives, well-formed formulas, truth tables, tautology, equivalence implication; Normal forms: Disjunctive normal forms, conjunctive normal forms, principle disjunctive normal forms, principle conjunctive normal forms; Predicate calculus: Predicative logic, statement functions, variables and quantifiers, free and bound variables, rules of inference, consistency, proof of contradiction, automatic theorem proving.

Unit - II — Hours: 14

Relations and Functions

Sets: Introduction, Sets and their Representations, Venn Diagrams, Operations on sets

Relations: Relations and Products, Functions as Relations, Relations on a Set, Properties of Relations: reflexive, irreflexive, symmetric, asymmetric, antisymmetric, transitive, inverse and complementary relations, combining Relations.

Functions: Definition of a Function, functions in programming languages, One-to-One and Onto functions, One to one correspondence, Inverse functions and compositions of functions, Graphs of functions, Floor, ceiling, greatest Integer and Factorial functions.

Unit – III — Hours: 16

Number Theory

Divisibility and Modular Arithmetic- Introduction, Division, Modular Arithmetic, Arithmetic Modulo m.

Integer Representations and Algorithms- Introduction, Representations of Integers, OCTAL AND HEXADECIMAL EXPANSIONS, CONVERSION BETWEEN BINARY, OCTAL, AND HEXADECIMAL EXPANSIONS.

Primes and Greatest Common Divisors- Introduction, Primes, Trial Division, Greatest Common Divisors and Least Common Multiples, The Euclidean Algorithm, gcds as Linear Combinations

Unit - IV Hours: 12

Graphs and Trees Graphs

Basic concepts of graphs, isomorphic graphs, Euler graphs, Hamiltonian graphs, planar graphs, graph coloring, digraphs, directed acyclic graphs, weighted digraphs, region graph, chromatic numbers; Trees: Trees, spanning trees, minimal spanning trees.

Reference Books

1. J. P. Tremblay, R. Manohar, Discrete Mathematical Structures with Applications to Computer Science, Tata McGraw Hill, India, 1st Edition,1997.

2. JoeL.Mott,AbrahamKandel,TheodoreP.Baker,—DiscreteMathematicsforComputerSci entists and Mathematicians, Prentice Hall of India Learning Private Limited, New Delhi, India, 2nd Edition, 2010.

3. Kenneth H. Rosen, —Discrete Mathematics and Its Applications, Tata Mcgraw-Hill, New Delhi, India, 6th Edition,2012.

4. C. L. Liu, D. P. Mohapatra, —Elements of Discrete Mathematics, Tata Mcgraw-Hill, India, 3rd Edition,2008.

5. Ralph P. Grimaldi, B. V. Ramana, —Discrete and Combinatorial Mathematics - An Applied Introduction, Pearson Education, India, 5th Edition, 2011.

6. D. S. Malik, M. K. Sen, —Discrete Mathematical Structures: Theory and Applications, Thomson Course Technology, India, 1st Edition, 2004.

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B.Sc. I Semester (2023-2024)

23DS104: Digital Computer Fundamentals (Core)	
Total No of Teaching Hrs.: 56	Teaching Hrs. Per Week: 4
Credits: 4	Max. Marks: 100

Course Objectives

The Course enables Students to

- Understand the digital fundamentals of computer.
- Possess the concept and importance of the number systems, logic gates and flips flops.
- Analyze the working of devices like encoders and decoders, multiplexers and demultiplexers

Course Outcomes

- After Successful completion of the course students will be able to
- Understand math and Boolean algebra in performing computations in various number systems.
- Demonstrate Simplification of Boolean algebraic expressions.
- Design efficient combinational and sequential logic circuit implementations from functional description of digital systems.

Unit 1 Hours: 18

Fundamentals of computers

Characteristics of computers – Computer Language – Operating Systems – Generation of Computers.

Number systems

Decimal numbers, Binary numbers: Counting in binary, The weighted structure of binary numbers, Octal numbers, hexadecimal numbers and their mutual conversions, Binary arithmetic: Addition, subtraction, multiplication and division of binary numbers, 1‘s and 2‘s complement, signed numbers, arithmetic operations: addition, subtraction with signed numbers, 9‘s and 10‘s complement, BCDnumbers, Gray code, Weighted code: 8421 code and Non weighted codes: ASCIIand EBCDIC.

Unit 2 Hours:16

Boolean Algebra

Boolean operations and expressions, Laws and rules of boolean algebra, Demorgan's Theorem, Boolean expressions, Simplification of Boolean expression.

Logic Gates

AND gate, OR gate, NOT gate, NAND gate, NOR gate, X-OR gate, X-NOR gate, The universal property of NAND gate and NOR gate, Realization of basic gates. Boolean expression for logic circuits, Karnaugh map SOP with examples.

Self-Learning:

Universal property of NOR gate

Unit 3 Hours: 12

Combinational Logic

Basic Adders: Half adder, Full adder, 4-bit Parallel adders, Subtractor: Half subtractor, Full subtractor Implementation using logic gates, Decoders: 4-bit decoder, BCD to decimal decoder, Encoder: Decimal to BCD encoder, Multiplexer: 4 to 1 multiplexer, Demultiplexer: 1 to 4 demultiplexer.

Unit 4 Hours: 10

Flip-flops

Latches: SR latch, Clocked flip-flops: SR flip-flop, D flip-flop, JK flip-flop, Positive edge triggered flip flops, Timing diagrams, Master slave JK flip-flop, Types of ROM.

Text Books

1. Floyd, Thomas L: Digital Computer Fundamentals, 11th Edition, Pearson International, 2015.

Reference Books

1. Malvino, Paul Albert, Leach, Donald P, Gautam Saha: Digital Principles And Applications, TMH,8th Edition, 2015.
2. Bartee, Thomas C: Digital Computer Fundamentals, 6 Edition, TMH, 2010.

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Department of Data Sciences
B.Sc. I Semester (2023-2024)

22EL111: Domestic Equipments Maintenance (OEC)	
Total No of Teaching Hrs.: 42	Teaching Hrs. Per Week: 3
Credits: 3	Max. Marks: 100

Course Outcomes:

CO1: Students will understand appliance construction, working, and troubleshooting for various appliances.

CO2: They will develop practical repair skills for these appliances.

CO3: Students will learn critical analysis of air conditioning systems.

CO3: They'll be prepared for appliance repair and maintenance careers.

UNIT I **Hours: 14**

Geyser: Construction and working, parts and manufacturing process, types. Common faults and their troubleshooting: Dripping geyser overflow, overheating, steam or hot water escaping from overflow, water leaking through the ceiling, no hot water, water not hot enough, poor hot water pressure. Induction cooker: Construction and working, parts and manufacturing process, types. Common faults and their troubleshooting: Cooker fuse blown, cooker buttons not working, cook top shuts off while cooking, food not get cooked or heated properly, overheating and uneven heating, display keep flashing, weird noises–crackling, fan noise, humming sound, clicking.

UNIT II **Hours: 14**

Microwave Oven: Working, raw material and manufacturing process, types, Common faults and their troubleshooting: Microwave does not heat, runs then stops, buttons do not work, plate do not spin, bulb does not turn ON during operation, sparking inside, shuts OFF after few seconds.

Refrigerator: Working, raw material and manufacturing process, electrical wiring diagram, types of refrigerator. Common faults and their troubleshooting: fridge not cooling, fridge not defrosting, leaking water, freezing food light not working, freezer is cooled but fridge stays warm, dead refrigerator, not enough cooling, keeps running, leakage, makes noise. Replacement procedure for: seal (gasket), evaporator fan motor, PTC relay, thermostat, compressor, bulb.

UNIT III **Hours: 14**

Air Conditioner: Working, raw material and manufacturing process, electrical wiring diagram, types. Common Faults and their troubleshooting: Faults in following parts of AC: Filter, thermostat, refrigerant leaks, breakers, capacitors, compressor, evaporator coils, condenser coils, warm contactor. General faults: AC UNIT has an odour, shuts ON and OFF repeatedly, does not blow cold air, repeatedly tripping a circuit breaker, indoor UNIT is leaking water inside the room, outdoor UNIT is making an unusually loud sound, room is not getting cold enough, AC not turning ON.

References:

1. Electronic instruments and systems: Principles, maintenance and troubleshooting by R. G. Gupta Tata McGraw Hill
2. Modern electronic equipment: Troubleshooting, repair and maintenance by Khandpur, Tata McGraw Hill
3. Electronic fault diagnosis by G. C. Loveday, A. H. Wheeler publishing

K.L.E. Society's
Raja Lakhamagouda Science Institute (Autonomous), Belagavi
Department of Data Sciences
B.Sc. I Semester (2023-2024)

22ST111: Statistical Methods (OEC)	
Total No of Teaching Hrs.: 42	Teaching Hrs. Per Week: 3
Credits: 3	Max. Marks: 100

Course Outcome (CO):

After completion of course, students will be able to:
CO 1: Acquire knowledge of statistical methods.
CO 2: Identify types of data and visualization, analysis and interpretation.
CO 3: Know about elementary probability and probability models.
CO 4: Employ suitable test procedures for given data set.

Unit I — Hours: 16

Introduction to Statistics, Univariate Data Analysis

Definition and scope of Statistics. Data: quantitative and qualitative, attributes, variables. Collection of data. Classification of Data, Types of classification, Frequency Distribution-Ungrouped and grouped frequency distribution with examples, Inclusive and Exclusive class intervals, Conversion of inclusive to exclusive, Frequency density, relative frequency with examples, Formulation of Bi-Variate frequency distribution, Cumulative frequency. Uses of diagrams, Rules for constructing diagrams, Types of diagrams- One Dimensional and Two-Dimensional diagrams with examples. Graphical representation Histogram, Frequency polygon, Frequency curve and Ogive curves with examples.

Unit II — Hours: 12

Measures of Central Tendency

mathematical averages including arithmetic mean, geometric mean and harmonic mean, properties and applications. **Positional Averages:** Mode and Median (and other partition values including quartiles, deciles, and percentiles). **Measures of Variation:** absolute and relative. Range, quartile deviation, mean deviation, standard deviation, and their coefficients, Properties of standard deviation/variance.

Unit III Hours: 14

Probability and Distributions

Probability: Random experiment, sample space, events, mutually exclusive, equally likely and exhaustive events. Classical, statistical and axiomatic definitions of probability, addition and multiplication theorems, Bayes theorem (only statements). Discrete and continuous random variables, probability mass functions and probability density functions, distribution functions, expectation of a random variable. **Standard univariate distributions:** Binomial, Poisson and Normal distributions (Elementary properties and applications only).

Books recommended:

1. Daniel, W. W. (2007). Biostatistics - A Foundation for Analysis in the Health Sciences, Wiley.

2. T.W. Anderson and Jeremy D. Finn (1996). The New Statistical Analysis of Data, Springer.

3. Mukhyopadyaya P. (1999). Applied Statistics, New Central book Agency, Calcutta.

4. Ross S. M. (2014). Introduction to Probability and Statistics for Engineers and Scientists, 5th Edition, Academic Press.

5. Cochran, W G (1984). Sampling Techniques, Wiley Eastern, New Delhi.

K.L.E. Society's

Raja Lakhamagouda Science Institute (Autonomous), Belagavi

Department of Data Sciences

B.Sc. I Semester (2023-2024)

21PE101: Physical Education and Yoga (SEC)	
Total No of Teaching Hrs.: 28	Teaching Hrs. Per Week: 1
Credits: 1	Max. Marks: 25

Content of the Course	**28 Hrs.**
Unit 1: - Introduction to Yoga 1. Principles of Yogic practician's 2. Ashtanga Yoga 3. Shitalikarna Vyayama/Physical Cultural Exercise 4. Suryanamaskara **Unit 2: - Yoga** 1. Standing, Sitting, Supine, Proline and Balancing Asanas.(Any three asanas from each)) 2. Techniques of Pranayama 3. Basic set of Meditation	28

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
Practical's	Internal Assessment - 25 Marks
Total	**25 Marks**

References

1. Nagendra, H. R. & Nagarathna, R. (2002). Samagra Yoga Chikitse.Bengaluru: Swami Vivekananda Yoga Prakasana.
2. Kumar, Ajith. (1984) Yoga Pravesha. Bengaluru: Rashtrothanna Prakashana.
3. D.M Jyoti, Yoga and Physical Activities (2015) lulu.com3101, Hillsborough, NC27609, United State.

K.L.E. Society's

Raja Lakhamagouda Science Institute (Autonomous), Belagavi

Department of Data Sciences

B.Sc. I Semester (2023-2024)

21PE102: HEALTH AND WELLNESS (SEC)	
Total No of Teaching Hrs.: 28	Teaching Hrs. Per Week: 1
Credits: 1	Max. Marks: 25

Content of Theory cum Practical he Course (1+0+1)	**28 Hrs.**
Unit 1: - Introduction 1. Meaning, Definition and Importance of Health and Wellness 2. Dimensions of Health and Wellness 3. Factors influencing Health and Wellness 4. Health and Wellness through Physical Activities 5. Causes of Stress & Stress relief through Exercise and Yoga **Unit 2: Practical** ➢ **Exercise for maintaining good Health and Wellness** 1. Stretching Exercise 2. General warmup exercises 3. Specific warmup exercises 4. Conditioning 5. Relaxation Techniques 6. Recreational Exercises for stress management	28

Formative Assessment	
Assessment Occasion/ type	**Weightage in Marks**
Theory and Practical	Internal Assessment - 25 Marks
Total	**25 Marks**

References

1. Dr. M S Pasodi, Dr. Esudas (2020) Health and Wellness KeertiPrakasana Bangalore.
2. Puri .k. Chandra S.S (2005) "Health and Physical Education" New Delhi :Surjeet Publication.

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Raja Lakhamagouda Science Institute (Autonomous), Belagavi

Department of Data Sciences

B.Sc. I Semester (2023-2024)

21EN101: Generic English-I(AECC)	
Total No of Teaching Hrs.: 56	Teaching Hrs. Per Week: 4
Credits: 3	Max. Marks: 100

Objectives:

1. To develop interest and appreciation of literature
2. To understand and analyze short theme-based stories and poetry
3. To enable the learners to learn basic vocabulary and grammar.
4. Acquire the receptive and productive skills.

Course Outcomes:

At the end of the course the student will be able to:

1. Learn to appreciate literary texts.
2. Obtain the knowledge of literary devices and genres.
3. Acquire the skills of creativity to express one's experiences.
4. Be aware of their social responsibilities.
5. Develop the critical thinking skills.
6. Develop gender sensitivity.
7. Increase reading speed, analytical skills and develop presentation skills.
8. Become employable with requisite professional skills, ethics and values.

Unit No	Course Content	56 hours
Unit: IProse	1. The Open Window- Saki 2. The Gift of Magi- O'Henry 3. Engine Trouble – R. K. Narayan	15 hrs
Unit: IIPoetry	1. On His Blindness- John Milton 2. The Road Not Taken- Robert Frost 3. Letter To His Son's Teacher- Abraham Lincoln	9 hrs
Unit: III Grammar & Vocabulary	1. Use of Articles 2. Use of Preposition 3. Adverb and Adjective 4. One Word Substitution 5. Question Forms a. Wh. Questions b. Tag Questions	16 hrs
Unit: IV Receptive and Productive Skills	1. Listening; a. Meaning, Difference between Listening & Hearing b. Types of Listening c. Barriers to effective listening d. Listening Activities - listening to pre-recorded clips 2. Short Speeches. a. Self-introduction/introducing others b. Welcome address and vote of thanks	16 hrs

References:

1. English in Mind: Anthology of Prose and Poetry- Textbook
2. English Improvement Course- Rajinder S. Dhillon & Deep Priya Dhillon; Arya Publishing Company, 2021
3. English Grammar Usage with Composition- R.P.Sinha
4. Communication Skills in English- Sanjay Kumar and Pushp Lata
5. Quirk Randolph, Sidney Greenbaum, Geoffrey Leech & Jan Svartvik. A Comprehensive Grammar of the English Language. Longman.
6. Herring, Peter. Complete English Grammar Rules. Create space Independent Pub, California, 2016.
7. Essential English Grammar; Raymond Murphey Cambridge University Press.

K.L.E. Society's
Raja Lakhamagouda Science Institute [Autonomous] Belagavi
DEPARTMENT OF HINDI
B.Sc. I Semester
TEXT BOOK 2021 NEP
Syllabus of B.Sc Ability enhancement compulsory course AECC-A1
INDEX

(A)कहानी कुंज

सम्पादक डॉ. पूर्णिमा आर. वाणी प्रकाशन, नई दिल्ली.

(B)Functional Hindi

अनुक्रम

(B) प्रयोजनमूलक हिंदी (हिंदी भाषा का महत्व तथा विविध रुप जान सकेंगे)

SL.NO.	DISTRIBUTION OF MARKS	MARKS
1	Objective type of questions (10 out of 12)	10
2	Annotation from Stories (3 out of 5)	15
3	General Questions based on Stories (2 out of 4)	20
4	Short Questions (5 out of 7) Functional Hindi	10
5	Question (1 out of 2) Functional Hindi	5
	Total	**60**
6	Internal Assessment, 1st Test, 2nd Test and MCQ Test	40
	Grand Total	**100**

ಕನ್ನಡ ಪಠ್ಯಕ್ರಮ
ಬಿ.ಎಸ್.ಸಿ. ಮೊದಲ ಸೆಮಿಸ್ಟರ್
(Ability Enhancement Compulsory Course)

ಘಟಕ – 1 : ಕನ್ನಡ ನಾಡು–ನುಡಿ ಪ್ರಜ್ಞೆ

1. ಕನ್ನಡಾಂಬೆಯ ಹಿರಿಮೆ – ಬೆನಗಲ್ ರಾಮರಾವ್
2. ಕನ್ನಡ ದೀಪ – ಸಿದ್ದಯ್ಯ ಪುರಾಣಿಕ
3. ಕರ್ನಾಟಕದ ಇತಿಹಾಸ ಮತ್ತು ಕನ್ನಡ ಸಾಹಿತ್ಯ – ಎಂ. ಚಿದಾನಂದ ಮೂರ್ತಿ
4. ಕನ್ನಡ ಸಂವರ್ಧನೆ – ಡಿ. ಆರ್. ನಾಗರಾಜ

ಘಟಕ – 2 : ಭೂಮಿ

1. ಬೀಜ ಮತ್ತು ಭೂಮಿ – ವಂದನಾ ಶಿವ
2. ನೆಲಮುಗಿಲು – ಚನ್ನವೀರ ಕಣವಿ
3. ನಮ್ಮೂರ ಕೆರೆ – ಶಿವರಾಮ ಕಾರಂತ
4. ನನ್ನೊಳು ನದಿಯೋ ನದಿಯೊಳು ನಾನೋ – ಪಾರ್ವತಿ ಪಿಟಗಿ

ಘಟಕ – 3 : ವೈಜ್ಞಾನಿಕ ಮನೋಧರ್ಮ

1. ಜ್ಯೋತಿಷ್ಯ ಅರ್ಥಪೂರ್ಣವೋ ಅರ್ಥರಹಿತವೋ – ಎಚ್. ನರಸಿಂಹಯ್ಯ
2. ದೇವರು ಪೂಜಾರಿ – ಕುವೆಂಪು
3. ಮೂರು ವ್ಯಕ್ತಿಚಿತ್ರಗಳು – ಡಾ. ಎಚ್ಚೆಸ್ಕೆ
4. ವಿಜ್ಞಾನ ಪ್ರಶ್ನೆ : ಸಹಸ್ರಬುದ್ಧೆ (ಅನು: ಕೆ. ಪುಟ್ಟುಸ್ವಾಮಿ)

ಘಟಕ – 4 : ಸಂಕೀರ್ಣ

1. ಸೋದರರ ಸಮರ – ರತ್ನಾಕರವರ್ಣಿ
2. ಬಿತ್ತನೆ ಹಾಡು – ಜಾನಪದ
3. ಸಾಹಿತ್ಯದಲ್ಲಿ ವೈಚಾರಿಕತೆ – ಕೀರ್ತಿನಾಥ ಕುರ್ತಕೋಟಿ