

MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

Rajarajeswari College of Engineering

(An Autonomous Institution under Visvesvaraya Technological University, Belagavi) #14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru–560074











Bachelor of Computer Applications

Scheme and Syllabus of I Semester (2025 Scheme)

VISION

To empower young minds through technology, research and innovation, to produce technically competent and socially responsible professionals in higher education.

MISSION

- 1. To deliver excellence in education through innovative teaching, impactful research, and continuous skill development, preparing students to meet global challenges with technical expertise and ethical responsibility.
- To foster a transformative learning environment that integrates technology, research and practical experience, empowering students to become skilled professionals and socially conscious leaders.
- 3. To cultivate a culture of lifelong learning and professional excellence by encouraging creativity, research, and community engagement, equipping students with the skills to thrive in a dynamic world.
- 4. To provide a holistic educational experience that combines advanced technology, hands-on research, and community-focused learning, shaping students into competent, ethical professionals who contribute positively to society.

QUALITY POLICY

Rajarajeswari College of Engineering is committed to imparting quality technical education that nurtures competent, ethical professionals with global relevance. We ensure academic excellence through a dynamic, outcome-based curriculum, experienced faculty, and cutting-edge infrastructure. Continuous improvement is driven by innovation, research and strong industry collaboration. We foster holistic development and a progressive environment that supports lifelong learning, teamwork, and professional growth.

CORE VALUES

Academic Excellence, Integrity, Innovation, Global Competence, Continuous Improvement.

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MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

Rajarajeswari College of Engineering

(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)

Bachelor of Computer Applications

Scheme of Teaching and Examinations – 2025 Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the Academic Year 2025-26)

Semester: I

						Feaching	Hours	Week		Examination		
S. No	S. No Course Category and Course Code		Course Title	TD/PSB	Lecture Tutoria 1/SDA Practical Seminar		Credits	SEE Duration in Hours	E Marks	E Marks	Total Marks	
					L	T/S	P		Du	CIE	SEE	To
1.	PCC	B25BCA101	Problem solving using C Programming	BCA	3	0	0	3	3	50	50	100
2.	PCC	B25BCA102	Computer Essentials	BCA 3 0 0				3	3	50	50	100
3.	DCC	B25BCA103A	Fundamentals of Mathematics BCA 3		0	0	3	3	50	50	100	
3.	PCC	B25BCA103B	Fundamentals of Accountancy	BCA 3 °					30	50	100	
4.	AEC	B25BCA104	Indian Knowledge System(MCQ)	BCA	2 0 0			2	1	50	50	100
5.	AEC	B25BCA105A	Samskrutika Kannada(MCQ) Humanities 2 0		0	0	2	1	50	50	100	
<i>J</i> .	ALC	B25BCA105B	Balake Kannada(MCQ)	Trumamues	2	Ü	Ů	1	_		•	100
6.	AEC	B25BCA106	Professional Communication Skills	Humanities	2	0	0	2	1	50	50	100
7.	PCCL	B25BCAL107	Programming in C Laboratory	BCA	1	0	2	2	3	50	50	100
8.	PCCL	B25BCAL108	Essentials of Computer Laboratory	BCA	1	0	2	2	3	50	50	100
9.	VAC	B25BCA109	Environmental Studies (MCQ)	Che/Civil	0	2	0	1	1	50	50	100
						Т	OTAL	20		450	450	900

Note: AEC-Ability Enhancement Courses, PCC – Professional Core Courses, PCCL – Professional Core Course Laboratory, VAC – Value Added Courses. SDA- Skill Development Activities.

HoD Dean-Academics Principal



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SEMESTER-I							
PROBLEM SOLVING USING C PROGRAMMING							
	Category: PCC						
Course Code	:	B25BCA101	CIE	:	50 Marks		
Teaching Hours L:T:P	:	3:0:0	SEE	:	50 Marks		
Total Hours	:	45	Total	:	100 Marks		
Credits	:	3	SEE Duration	:	3 Hrs		

	Course Objectives				
1.	1. To develop skills in solving problem.				
2.	To obtain knowledge about the structure of the programming language C.				
3.	To develop the program writing and logical thinking skill.				

Module – 1	No. of Hours
Problem Solving techniques: Introduction, Problem solving procedure, Algorithm: Steps involved in	
algorithm development. Algorithms for simple problems: To find largest of three numbers, factorial of	
number, check for prime number, check for palindrome, Count no. of odd, even and zeros in list of	
integers.	9
Flowcharts: Definition, advantages, Symbols used in flow charts. Flowcharts for simple problems	
mentioned in algorithms. Pseudo code.	
Module – 2	No. of Hours
Introduction to C: Overview of C Program, Importance of C Program, Basic structure of a C program,	
Execution of C Program.	
Constants, Variables & Data types: Character set, C token, Keywords & identifiers, Constants,	
Variables, data types, Declaration of variables, assigning values to variables, defining symbolic constants.	9
Operators and Expression: Arithmetic, Relational, logical, assignment, increment & decrement,	
conditional, bit wise & special operators, evaluation of expressions, Precedence of arithmetic operators,	
type conversions in expressions, operator precedence & Associativity, built in mathematical functions.	
Module – 3	No. of Hours
Managing Input and Output operations: Reading & writing a character, formatted input and output.	
Decision Making and Branching: Decision making with if statement, simple if statement, the if else	
statement, nesting of if else statements, the else if ladder, the switch statement, the ?: operator, the goto	
statement.	9
Decision making and looping: The while statement, the do statement, for statement, exit, break, jumps in	
loops	
Module – 4	No. of Hours
Arrays: Declaration, initialization & access of one dimensional & two-dimensional array. Programs using	
one- and two-dimensional arrays- sorting and searching arrays	
Handling of Strings: Declaring &initializing string variables, reading strings from terminal, writing	
strings to screen, Arithmetic operations on characters, String Handling functions, table of strings	9
User defined functions: Need for user defined functions, Declaring, defining and calling C functions	
return values & their types	
Categories of functions: With/without arguments, with/without return values. Nesting of functions	
Module – 5	No. of Hours
Structures, union and Pointers: Structure definition, giving values to members, structure initialization,	
comparison of structure variables, arrays of structures, arrays within structures, Structure and functions,	9
structures within structures. Unions.	
Pointers: Understanding pointers, accessing the address of a variable, declaring & initializing pointers,	
accessing a variable through its pointer, pointer expression, pointer increments & scale factor, passing	
pointer variables as function arguments.	



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Department of Bachelor of Computer Applications

Course	Course Outcomes: At the end of the course, the students will be able to					
CO1	Describe the C Programming language which includes the structure of a C program, Tokens, Expressions,					
	Operators etc.					
CO2	Demonstrate conditional and iterative statements to write C programs.					
CO3	Construct the C programs that use pointers to access arrays and strings.					
CO4	Illustrate the user defined functions to solve real time problems.					

Text B	Text Books						
1.	Balagurusamy E, 2017, Programming in ANSI C, 7 th edition, Tata McGraw –Hill Education Private Limited, New						
	Delhi.						
2.	Computer Fundamentals and Programming in C – ReemaThareja, 2nd Edition, Oxford University, 2017.						
3.	Brian W. Kernighan and Dennis M. Ritchie, the 'C' Programming Language, Prentice Hall of India						
4.	YashavanthKanetkar, Let us C, Authentic Guide to C Programming Langauge, bpb publisher, 17 th Edition, 2020						

Refere	Reference Text Books				
1.	Byron S. Gottfried, 2010. Programming with C, 3rd edition, Tata McGraw – Hill Publications, NewDelhi.				

Web links and Video lectures (e-Resources)

- http://people.scs.carleton.ca/~mjhinek/W13/COMP2401/notes/Arrays_and_Pointers.pdf
- https://www.tutorialspoint.com/cprogramming/c_functions.htm
- http://www.circuitstoday.com/control-structures-in-c-and-cpp

ASSESSMENT STRUCTURE:

The assessment in each course is divided equally between Continuous Internal Evaluation (CIE) and the Semester End Examination (SEE), with each carrying 50% weightage. To qualify and become eligible to appear for SEE, in the CIE, a student must score at least 40% of 50 marks, i.e., 20 marks. To pass the SEE, a student must score at least 35% of 50 marks, i.e., 18 marks. Notwithstanding the above, a student is considered to have passed the course, provided the combined total of CIE and SEE is at least 40 out of 100 marks.

CONTINUOUS INTERNAL EVALUATION (CIE):

Component	Type of Assessment	Max. Marks	weightage	Total Marks
Theory	Internal Assessment1	50	Average of Best two Assessments,	
	Internal Assessment2	50	scale down to	
	Internal Assessment3	50	40	50
CCA	Two Assignments	20	10	
SEE	Semester End Examination	100	50	50
	100			

SEMESTER END EXAMINATION (SEE):

- 1. The Question paper for each course contains two parts, Part A and Part B.
- 2. Part A consists of **Short Answer Questions** (2 Marks/1 mark) for 20 marks covering the complete syllabus and it is compulsory. Multiple Choice Questions are allowed.
- 3. Part B consists of 10 questions, two questions of 16 marks (with max. of 3 sub questions) from each module with internal choice. Students shall answer five full questions, selecting one full question from each module.



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Department of Bachelor of Computer Applications

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO											
CO1	3	3	2	-	3	-	1	-	1	-	-
CO2	3	3	3	-	2	-	2	-	1	-	-
CO3	3	2	2	-	3	-	1	-	-	2	-
CO4	3	3	3	-	2	-	2	-	1	-	-

Level 3 - High, Level 2 - Moderate, Level 1 - Low



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SEMESTER-I						
COMPUTER ESSENTIALS						
	Category: PCC					
Course Code	:	B25BCA102	CIE	:	50 Marks	
Teaching Hours L:T:P	:	3:0:0	SEE	:	50 Marks	
Total Hours	:	45	Total	:	100 Marks	
Credits	:	3	SEE Duration	:	3 Hrs	

	Course Objectives
1.	To provide foundational knowledge of computer systems, including their history, architecture, and essential operations.
2.	To equip students with practical skills in operating systems, networking, office applications, and file system management.

Module – 1	No. of Hours
Introduction to computers: History of Computing, Data Storage: Bits and Their Storage, Main Memory,	
Mass Storage, Representing Information as Bit Patterns, The Binary System.	
Data Manipulation: Computer Architecture, Machine Language, Program Execution Arithmetic/Logic	
Instructions.	9
Module – 2	No. of Hours
Operating System Fundamentals: The History of Operating Systems, Operating System Architecture,	
Types of Operating System, Coordinating the Machine's Activities, Handling Competition Among	9
Processes, Security.	
Module – 3	No. of Hours
Data Communications & Computer Networks: Components, Data Representation, Data Flow, Network	
Criteria, Physical Structures, network types, internet history.	9
Module – 4	No. of Hours
Office Tools: Using office tools, Creating, Saving, Closing, and Opening Office Files, Working with	
Files, Using the Ribbon, Tabs, and Quick Access Toolbar, Using Context Menus, the Mini Toolbar, and	
Keyboard Shortcuts, Organizing and Customizing Folders and Files. Usage of office tools	9
Module – 5	No. of Hours
File-System Interface: File Concept, Access Methods, Directory and Disk Structure, File System	
Mounting, File Sharing, Protection, File-System Structure, File-System Implementation, Directory	9
Implementation, Allocation Methods, Free-Space Management, Efficiency and Performance, Recovery.	

Cours	Course Outcomes: At the end of the course, the students will be able to				
CO1	Understand basic computer concepts including history, data storage, and data manipulation techniques.				
CO2	Learn the fundamentals of operating systems and their role in managing computer resources and security.				
CO3	Gain knowledge of data communication principles and computer networking basics.				
CO4	Develop proficiency in using office tools for document creation, data management, and presentation.				
CO5	Explore the structure and management of file systems including file operations, directory structures, and storage				
	management.				

Text B	Text Books					
1.	J. Glenn Brookshear," Computer Science: An Overview", Addision-Wesley, 12 th Edition, 2014					
2.	Silberschatz A, Gagne G, Galvin PB. Operating system concepts. 9 th Edition, Wiley; 2012.					
3.	Cobbaut P. Linux Fundamentals. Samurai Media Limited; 2016.					
4.	Silberschatz A, Korth HF, Sudarshan S. Database system concepts. 6 th Edition, McGraw Hill; 2010.					

Re	Reference Text Books					
	1.	Microsoft Office 365: In Practice, 2019 Edition, 1 st Edition ISBN10: 1260079902				
		ISBN13: 9781260079906, By Randy Nordell, Kathleen Stewart, Annette Easton and Pat Graves © 2020				



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ASSESSMENT STRUCTURE:

The assessment in each course is divided equally between Continuous Internal Evaluation (CIE) and the Semester End Examination (SEE), with each carrying 50% weightage. To qualify and become eligible to appear for SEE, in the CIE, a student must score at least 40% of 50 marks, i.e., 20 marks. To pass the SEE, a student must score at least 35% of 50 marks, i.e., 18 marks. Notwithstanding the above, a student is considered to have passed the course, provided the combined total of CIE and SEE is at least 40 out of 100 marks.

CONTINUOUS INTERNAL EVALUATION (CIE):

Component	Component Type of Assessment		weightage	Total Marks		
Theory	Theory Internal Assessment1		Average of Best two Assessments,			
Internal Assessment2		50	scale down to			
	Internal Assessment3	50	40	50		
CCA	Two Assignments	20	10			
SEE	Semester End Examination	100	50	50		
Grand Total						

SEMESTER END EXAMINATION (SEE):

- 1. The Question paper for each course contains two parts, Part A and Part B.
- 2. Part A consists of **Short Answer Questions** (2 Marks/1 mark) for 20 marks covering the complete syllabus and it is compulsory. Multiple Choice Questions are allowed.
- 3. Part B consists of 10 questions, two questions of 16 marks (with max. of 3 sub questions) from each module with internal choice. Students shall answer five full questions, selecting one full question from each module.

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO											
CO1	1	2	1	2	-	2	-	-	-	-	-
CO2	1	3	1	1	-	-	-	-	-	-	-
CO3	2	2	2	2	1	-	-	2	-	-	-
CO4	3	1	2	2	2	-	2	2	-	-	-
CO5	2	2	2	2	1	2	-	=	=.	=.	-

Level 3 - High, Level 2 - Moderate, Level 1 - Low



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Department of Bachelor of Computer Applications

SEMESTER-I							
	FUNDAMENTALS OF MATHEMATICS						
		Category: P	PCC				
Course Code	:	B25BCA103A	CIE	:	50 Marks		
Teaching Hours L:T:P	:	3:0:0	SEE	:	50 Marks		
Total Hours : 45 Total : 100 Marks							
Credits	:	3	SEE Duration	:	3 Hrs		

	Course Objectives						
1.	The Curriculum supports the prerequisites to enhance their Mathematical knowledge towards understanding						
	mathematical Concepts in the concerned fields.						
2.	Enhance problem-solving skills using mathematical models and algorithms.						
3.	Develop logical reasoning and analytical thinking.						
4.	Understand the mathematical foundations of computer science, including discrete mathematics and graph theory.						
5.	Apply mathematical concepts to computer science problems, such as algorithm design and analysis.						

Module – 1	No. of Hours
Introduction to Number System: Overview of number systems: Binary numbers, Number based	
conversion, Octal and hexadecimal numbers, Complements.	9
Module – 2	No. of Hours
Propositional Logics: Mathematical logic introduction-statements Connectives-negation, conjunction,	
disjunction- statement formulas and truth tables- conditional and bi Conditional statements- tautology contradiction.	9
Module – 3	No. of Hours
Set Theory: Operations on sets, power set, Venn diagram, Cartesian product, relations, functions- types	
of functions - composition of functions.	9
Module – 4	No. of Hours
Matrix algebra: Introduction, Types of matrices-matrix operations, transpose of a matrix, determinant of	
matrix, inverse of a matrix, Cramer's rule.	9
Module – 5	No. of Hours
Differential calculus: Functions and limits - Simple Differentiation of Algebraic Functions – Evaluation	
of First and Second Order Derivatives – Maxima and Minima.	9

Course	Course Outcomes: At the end of the course, the students will be able to					
CO1	CO1 Understand and convert between binary, octal, and hexadecimal number systems.					
CO2	Apply propositional logic to create and interpret truth tables.					
CO3	Perform operations on sets and analyze functions using Venn diagrams.					
CO4	Conduct matrix operations and solve linear equations using matrices.					
CO5	Differentiate algebraic functions and apply calculus to find maxima and minima.					

Text B	Text Books					
1.	Digital Logic and Computer Design, M. MORRIS MANO Professor of Engineering California State University,					
	Los Angeles.					
2.	Discrete mathematics and its applications / Kenneth H. Rosen, Monmouth University (And formerly AT&T					
	Laboratories).					

ASSESSMENT STRUCTURE:

The assessment in each course is divided equally between Continuous Internal Evaluation (CIE) and the Semester End Examination (SEE), with each carrying 50% weightage. To qualify and become eligible to appear for SEE, in the CIE, a student must score at least 40% of 50 marks, i.e., 20 marks. To pass the SEE, a student must score at least 35% of 50 marks, i.e., 18 marks. Notwithstanding the above, a student is considered to have passed the course, provided the combined total of CIE and SEE is at least 40 out of 100 marks.



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CONTINUOUS INTERNAL EVALUATION (CIE):

Component	Type of Assessment	Max. Marks	weightage	Total Marks	
Theory	Theory Internal Assessment1		Average of Best two Assessments,		
	Internal Assessment2	50	scale down to		
	Internal Assessment3	50	40	50	
CCA	Two Assignments	20	10		
SEE	Semester End Examination	100	50	50	
Grand Total					

SEMESTER END EXAMINATION (SEE):

- 1. The Question paper for each course contains two parts, Part A and Part B.
- 2. Part A consists of **Short Answer Questions** (2 Marks/1 mark) for 20 marks covering the complete syllabus and it is compulsory. Multiple Choice Questions are allowed.
- 3. Part B consists of 10 questions, two questions of 16 marks (with max. of 3 sub questions) from each module with internal choice. Students shall answer five full questions, selecting one full question from each module.

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO											
CO1	1	1	1	2	1	2	1	1	1	-	-
CO2	2	2	2	1	1	3	1	1	1	-	-
CO3	1	1	1	1	2	3	1	2	-	-	-
CO4	1	2	2	2	1	3	-	-	-	-	-
CO5	2	2	2	1	2	1	=.	1	1	1	-

Level 3 - High, Level 2 - Moderate, Level 1 - Low



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SEMESTER-I									
	FUNDAMENTALS OF ACCOUNTANCY								
		Category: P	CCC						
Course Code	:	B25BCA103B	CIE	:	50 Marks				
Teaching Hours L:T:P	:	3:0:0	SEE	:	50 Marks				
Total Hours	:	45	Total	:	100 Marks				
Credits	:	3	SEE Duration	:	3 Hrs				

	Course Objectives
1.	Understand Core Accounting Concepts: Equip students with foundational knowledge of accounting principles,
	processes, and standards, enabling them to accurately record and report financial transactions.
2.	Apply Practical Accounting Skills: Develop students' ability to manage various accounting tasks, such as
	journalizing, ledger posting, and bank reconciliation, ensuring they can effectively handle real-world financial data.

Module – 1	No. of Hours
Meaning and Scope of Accounting: History and Development of Accounting, Meaning, Objectives and	
functions of Accounting, Book keeping V/s Accounting, Users of accounting data, systems of book	
keeping and accounting, branches of accounting, advantages and limitations of accounting.	9
Module – 2	No. of Hours
Accounting Principles: Meaning of accounting principles, accounting concepts, account conventions,	
accounting principles and the institute of charted accounts of India, Statements of accounting standards.	9
Module – 3	No. of Hours
Financial Accounting Process: Journalizing transactions: Journals, Rules of Debit and Credit,	
Compound Journal Entry, Opening Entry. Ledger posting and trial balance: Ledger, Posting, Relationship	9
between journal and ledger, Rules regarding posting, Trial Balance.	
Module – 4	No. of Hours
Sub-division of journals: Cash Journal, Petty Cash Book, Purchase Journal, Sales Journal, Sales Return	
Journal.	
Negotiable Instruments: Promissory Note, Specimen of Promissory note, Bill of Exchange, Cheque,	9
Some Important Terms, Accounting Entries, Billes sent for collection, Accommodation Bills, Bills	
receivable and payable books.	
Module – 5	No. of Hours
Bank Reconciliation Statement: Advantages of keeping a bank account, causes of difference, Meaning	
and Objectives of bank reconciliation statement, Importance of bank reconciliation statement, Technique	9
of preparing bank reconciliation statement, where cash book balance has to be adjusted, Where the	
abstract from the Cash Book and Pass Book are given.	

Course	Course Outcomes: At the end of the course, the students will be able to					
CO1	Explain the key functions of accounting and differentiate between bookkeeping and accounting.					
CO2	Describe core accounting principles and apply relevant accounting standards.					
CO3	Record transactions in journals and post them to ledgers accurately.					
CO4	Manage different types of journals and understand the accounting of negotiable instruments.					
CO5	Prepare a bank reconciliation statement and identify discrepancies between bank and cash records.					

Text I	Books	
1.	Dr S N Maheshwari, CA Sharad K Maheshwari&DrSuneel K Maheshwari, An Introduction to Accountancy, 12 th	
	edition Vikas Publishing.	

Refere	ence Text Books
1.	Fundamentals of Financial Accounting" by Ashok Banerjee Publisher: Excel Books
2.	Accounting for Management: Text and Cases, 3 rd edition, S K Bhattacharyya, John Dearden& S Venkatesh, Vikas
	Publishing



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ASSESSMENT STRUCTURE:

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CONTINUOUS INTERNAL EVALUATION (CIE):

Component	Type of Assessment	Max. Marks	weightage	Total Marks			
Theory	Internal Assessment1	50	Average of Best two Assessments,				
	Internal Assessment2	50	scale down to				
	Internal Assessment3	50	40	50			
CCA	Two Assignments	20	10				
SEE	Semester End Examination	100	50	50			
Grand Total							

SEMESTER END EXAMINATION (SEE):

- 1. The Question paper for each course contains two parts, Part A and Part B.
- 2. Part A consists of **Short Answer Questions** (2 Marks/1 mark) for 20 marks covering the complete syllabus and it is compulsory. Multiple Choice Questions are allowed.
- 3. Part B consists of 10 questions, two questions of 16 marks (with max. of 3 sub questions) from each module with internal choice. Students shall answer five full questions, selecting one full question from each module.

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO											
CO1	1	1	1	2	1	3	1	1	-	-	-
CO2	2	2	2	3	1	1	1	1	-	-	-
CO3	3	1	1	2	2	1	1	-	-	-	-
CO4	1	2	1	3	1	2	-	-	-	-	-
CO5	2	2	3	1	3	1	2	1	-	-	-

Level 3 - High, Level 2 - Moderate, Level 1 - Low



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SEMESTER-I							
INDIAN KNOWLEDGE SYSTEM							
Category: AEC							
Course Code	:	B25BCA104	CIE	:	50 Marks		
Teaching Hours L:T:P	:	2:0:0	SEE	:	50 Marks		
Total Hours	:	30	Total	:	100 Marks		
Credits	:	2	SEE Duration	:	1 Hr		

	Course Objectives
1.	To facilitate the students with the concepts of Indian traditional knowledge and to make them understand the
	Importance of roots of knowledge system.
2.	To make the students understand the traditional knowledge and analyze it and apply it to their day-to-day life.

Module – 1	No. of Hours
Introduction to Indian Knowledge Systems (IKS): Overview, Vedic Corpus, Philosophy, Character	
scope and importance, traditional knowledge vis-a-vis indigenous knowledge, traditional knowledge vs.	
western knowledge.	10
Module – 2	No. of Hours
Traditional Knowledge in Humanities and Sciences: Linguistics, Number and measurements	
Mathematics, Chemistry, Physics, Art, Astronomy, Astrology, Crafts and Trade in India and Engineering	
and Technology	10
Module – 3	No. of Hours
Traditional Knowledge in Professional domain: Town planning and architecture Construction, Health,	
wellness and Psychology-Medicine, Agriculture, Governance and public administration, United Nations	
Sustainable development goals.	10

Course	Course Outcomes: At the end of the course, the students will be able to						
CO1	CO1 Provide an overview of the concept of the Indian Knowledge System and its importance.						
CO2	Appreciate the need and importance of protecting traditional knowledge.						
CO3	Recognize the relevance of Traditional knowledge in different domains.						
CO4	Establish the significance of Indian Knowledge systems in the contemporary world.						

Text B	Books
1.	Introduction to Indian Knowledge System- concepts and applications, B Mahadevan, VinayakRajatBhat,
	NagendraPavana R N, 2022, PHI Learning Private Ltd, ISBN-978-93-91818-21-0
2.	Traditional Knowledge System in India, AmitJha, 2009, Atlantic Publishers and Distributors (P) Ltd., ISBN-13:
	978-8126912230
3.	Knowledge Traditions and Practices of India, KapilKapoor, Avadesh Kumar Singh, Vol1, 2005, DK Print World
	(P) Ltd., ISBN 81-246-0334

Web links and Video lectures (e-Resources)

- https://www.youtube.com/watch?v=LZP1StpYEPM
- http://nptel.ac.in/courses/121106003/
- https://unctad.org/system/files/official-document/ditcted10_en.pdf
- http://nbaindia.org/uploaded/docs/traditionalknowledge_190707.pdf
- https://unfoundation.org/what-we-do/issues/sustainable-developmentgoals/?gclid=EAIaIQobChMInp-Jtb_p8gIVTeN3Ch27LAmPEAAYASAAEgIm1vD_BwE



(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)

Department of Bachelor of Computer Applications

ASSESSMENT STRUCTURE:

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50). The minimum passing mark for the SEE is 35% of the maximum marks (18 marks out of 50). A student shall secure a minimum of 40% (40 marks out of 100) in the total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

CONTINUOUS INTERNAL EVALUATION (CIE):

Component	Type of Assessment	Max. Marks	weightage	Total Marks
Theory	Internal Assessment1 (MCQs)	50	Average of Best two	
	Internal Assessment2 (MCQs)	50	Assessments, scale down to	
	Internal Assessment3 (MCQs)	50	40	50
C C A	Two Assignments	20	10	
SEE	Semester End Examination	100	50	50
	100			

SEMESTER END EXAMINATION (SEE):

SEE paper shall be set for 50 questions, each question carries 01 mark. The pattern of the question paper is MCQ (Multiple Choice Questions). The time allotted for SEE is 01 hour.

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO											
CO1	2	1	1	2	3	2	1	-	-	-	1
CO2	3	3	3	1	1	3	1	2	-	-	1
CO3	2	2	2	2	1	3	1	-	-	-	1
CO4	1	3	3	2	3	1	-	1	-	-	1

Level 3 - High, Level 2 - Moderate, Level 1 - Low



(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)

SEMESTER-I										
	SAMSKRUTIKA KANNADA									
		Category: Al	\mathbf{EC}							
Course Code	:	B25BCA105A	CIE	:	50 Marks					
Teaching Hours L:T:P	:	2:0:0	SEE	:	50 Marks					
Total Hours	:	30	Total	:	100 Marks					
Credits	:	2	SEE Duration	:	1 Hr					

	Course Objectives						
1.	ಪದವಿವಿದ್ಯಾರ್ಥಿಗಳಾಗಿರುವುದರಾಂದಕನ್ನಡಭಾಷೆ, ಸಹಿತಾಮತ್ತುಸಂಸ್ಕೃತಿಯಪರಚಯಮಾಡಿಕೊಡುವುದ.						
2.	ಕನ್ನಡಸಹಿತಾದಪರಧಾನ್ಭಾಗವಾದಆಧುನಿಕಪೂವಿಮತ್ತುಆಧುನಿಕಕ್ಷವಾಗಳನ್ನ ನಪರಚಯಿಸಿವುದ.						
3.	ವಿದ್ಯಾರ್ಥಿಗಳಲಿಲಸಹಿತಾಮತ್ತುಸಂಸ್ಕೃತಿಯಬಗೆೆಅರವುಹಾಗೂಆಸ್ಕ್ತುಯನ್ನನಮೂಡಿಸುವುದು.						
4.	ತಾಂತಿರಕವಾಕ್ತುಗಳಪರಚಯವನ್ನನಹಾಗೂಅವರುಗಳಸಧಿಸಿದವಿಷಯಗಳನ್ನನಪರಚಯಿಸುವುದ.						
5.	ಸಾಂಸ್ಕೃತಿಕ, ಜನ್ವದಹಾಗೂಪರವಾಸ್ಕ್ರಥನ್ಗಳಪರಚಯಮಾಡಿಕೊಡುವುದು.						

	Module – 1: ಕನ್ನಡಸಂಸ್ಕೃತಿಮತ್ತುಭಾಷೆಕುರತದಲೇಖನ್ಗಳ	No. of Hours				
1.	ಕನಾ ೆ ಟ್ಕಸಂಸ್ಕೃತಿ - ಹಂಪನಾಗರಾಜಯಾ					
2.	ಕನಾ ೆ ಟ್ಟದಏಕ್ಕೋಕರಣ: ಒಾಂದುಅಪೂವಿಚರತ್ರರ - ಜಿ. ವಾಂಕಟ್ಸುಬಬಯಾ	6				
3.	. ಆಡಳಿತಭಾಷೆಯಾಗಿಕನ್ನಡ - ಡಾ. ಎಲ್. ತಿಮ್ಮೇಶಮತ್ತುಪ್ರೋ. ವಿ. ಕೇಶವಮೂತಿ <i>ೆ</i>					
	Module – 2: ಆಧುನಿಕಪೂವಿದಕ್ಷವಾಭಾಗ	No. of Hours				
1.	ವಚನ್ಗಳು :ಬಸ್ವಣಣ , ಅಕಕಮಹಾದೇವಿ, ಅಲ್ಲಮಪರಭು, ಆಯದಕ್ತಕಮಾರಯಾ , ಜೇಡರದ್ಯಸಿಮಯಾ ,					
	ಆಯದಕ್ತಕಲ್ಕಕಮಮ	6				
2.	ಕ್ತೋತಿನೆಗಳು : ಅದರಾಂದೇನ್ನಫಲ್ಇದರಾಂದೇನ್ನಫಲ್ – ಪುರಂದರದ್ಯಸ್ರುತಲ್ಲಣಿಸ್ದಿರುಕಂಡಾತಳುಮನ್ವೇ - ಕನ್ಕದ್ಯಸ್ರು					
3.	ತತವಪದಗಳು : ಸವಿರಕೊಡಗಳಸುಟ್ಟಟ - ಶಿಶುನಾಳಶರೋಫ					
	Module – 3: ಆಧುನಿಕಕ್ಷವಾಭಾಗ					
1.	ಡಿವಿಜಿರವರಮಂಕುತಿಮಮನ್ಕ ಗೆದಿಾಂದಅಯದಕ್ಕ ಲ್ವು ಭಾಗಗಳು					
2.	ಕುರುಡುಕ್ಷಾಂಚಾಣ :ದ್ಯ.ರಾ. ಬಾಂದ್ರ	6				
3.	ಹೊಸ್ಟ್ಗಳಿನಿ್ಗೀತ್ರ : ಕುವಾಂಪು					
4.	4. ಮಬ್ಬಬನಿಾಂದಮಬ್ಬಬಗೆ : ಜಿಎಸ್ಶಿ ವರುದರಪಪ					
5.	ಚೋಮನ್ಮಕಕಳಹಾಡು : ಸಿದದಲಿಾಂಗಯಾ					
	Module – 4: ತಾಂತಿರಕವಾಕ್ತುಗಳಪರಚಯ	No. of Hours				
1.	ಡಾ. ಸ್ರ್. ಎಾಂ. ವಿಶ್ವೇಶವರಯಾ :ವಾಕ್ತುಮತ್ತುಐತಿಹ್ಾ – ಎ. ಎನ್. ಮೂತಿಿರಾವ್					
2.	2. ಕರಕುಶಲ್ಕಲೆಗಳುಮತ್ತುಪರಂಪರೆಯವಿಜ್ಞಾನ್ : ಕರೋಗೌಡಬ್ಬೋಚನ್ನ್ನಿ					
	Module – 5: ಸಾಂಸ್ಕೃತಿಕ, ಜನ್ಪದಕಥೆಮತ್ತುಪರವಾಸ್ಕಥನ್					
1.	ಯಗಾದಿ : ವಸುಧಾಂದರ					
2.	ಮ್ಗಾನೆಎಾಂಬಗಿರಜನ್ವವಿತ : ಹಿ.ರ್ಚ. ಬೋರಲಿಾಂಗಯಾ	6				



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Department of Bachelor of Computer Applications

Cours	Course Outcomes: At the end of the course, the students will be able to							
CO1	ಕನ್ನಡಭಾಷೆ, ಸಹಿತಾಮತ್ತುಕನ್ನಡದಸಂಸ್ಕೃತಿಯಕುರತ್ತಅರವುಮೂಡಿರುತುದ್.							
CO2	ಕನ್ನಡಸಹಿತಾದಆಧುನಿಕಪೂವಿಮತ್ತುಆಧುನಿಕಕ್ಷವಾಗಳನ್ನನಸಾಂಕೇತಿಕವಾಗಿಕಲಿತ್ತಹೆರ್ಚಿನ್ಓದಿಗೆ							
	ಮತ್ತುಜ್ಞಾನ್ಕ್ಕ ಕಸ್ಪಪತಿಿಮೂಡುತುದ್.							
CO3	ವಿದ್ಯಾರ್ಥಿಗಳಲಿಲಸಹಿತಾಮತ್ತುಸಂಸ್ಕೃತಿಯಬಗೆೆಅರವುಹಾಗೂಆಸ್ಕ್ತುಯನ್ನನಹೆಚಾೆಗುತುದ್.							
CO4	ತಾಂತಿರಕವಾಕ್ತುಗಳಪರಚಯಹಾಗೂಲವರುಗಳಸಧಿಸಿದವಿಷಯಗಳನ್ನನತಿಳಿದುಕೊ ಾ ಂಡುನಾಡಿನ್ ಇನಿನ ತರ							
	ವಾಕ್ತುಗಳಬಗೆ ಿತಿಳಿದುಕೊಳುಲುಕೌತ್ತಕ ತ್ರಹೆಚಾ ಿಗುತು ದ							
CO5	ಸಾಂಸ್ಕೃತಿಕ, ಜನ್ಪದಹಾಗೂಪರವಾಸ್ಕಥನ್ಗಳಪರಚಯಮಾಡಿಕೊಡುವುದು							

Text B	Text Books						
1.	ಪಠ್ಾಪುಸ್ುಕ :ಸಾಂಸ್ಕೃತಿಕಕನ್ನಡಡಾ. ಹಿ.ರ್ಚ.ಬೋರಲಾಂಗಯಾಮತ್ತುಡಾ. ಎಲ್. ತಿಮ್ಮೇಶ, ಪರಸರಾಾ ಂ ಗ,						
	ವಿಶ್ವೋಶವರಯಾತಾಂತಿರಕವಿಿಶವವಿದ್ಯಾಲ್ಯ, ಬೆಳಗಾವಿ.						
2.	ವಿಶೇಷಸ್ಪಚನೆ :						
	1. ಮೇಲಿನ್ಪರ್ಾಕರಮಕ್ಕಕಸೋಮಿತವಾಗಿಅಾಂತಿಮಪರೋಕ್ಕಾಯಪರಶ್ನಪತಿರಕ್ಕ ಇರುತುದ್.						

ASSESSMENT STRUCTURE:

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50). The minimum passing mark for the SEE is 35% of the maximum marks (18 marks out of 50). A student shall secure a minimum of 40% (40 marks out of 100) in the total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

CONTINUOUS INTERNAL EVALUATION (CIE):

Component	Type of Assessment	Max. Marks	weightage	Total Marks
Theory	Internal Assessment1 (MCQs)	50	Average of Best two	
	Internal Assessment2 (MCQs)	50	Assessments, scale down to	
	Internal Assessment3 (MCQs)	50	40	50
CCA	Two Assignments	20	10	
SEE	Semester End Examination	100	50	50
	100			

SEMESTER END EXAMINATION (SEE):

SEE paper shall be set for 50 questions, each question carries 01 mark. The pattern of the question paper is MCQ (Multiple Choice Questions). The time allotted for SEE is 01 hour.

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO											
CO1	2	1	1	2	1	2	1	-	-	-	-
CO2	1	3	1	1	1	1	1	2	-	-	-
CO3	2	2	2	2	1	1	1	-	-	-	-
CO4	1	3	1	1	1	1	-	1	-	-	-
CO5	2	1	2	2	2	2	-	-	1	1	-

Level 3 - High, Level 2 - Moderate, Level 1 - Low



(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)

SEMESTER-I										
	BALAKE KANNADA									
		Category: AEC								
Course Code	:	B25BCA105B	CIE	:	50 Marks					
Teaching Hours L:T:P	:	2:0:0	SEE	:	50 Marks					
Total Hours	:	30	Total	:	100 Marks					
Credits	:	2	SEE Duration	:	1 Hr					

	Course Objectives					
1.	To Create the awareness regarding the necessity of learning local language for comfortable and healthy life.					
2.	To enable learners to Listen and understand the Kannada language properly.					
3.	To speak, read and write Kannada language as per requirement.					
4.	To train the learners for correct and polite conservation.					
5.	To know about Karnataka state and its language, literature and General information about this state.					

	Module – 1	No. of Hours
1.	Introduction, Necessity of learning a local language. Methods to learn the Kannada language.	
2.	Easy learning of a Kannada Language: A few tips. Hints for correct and polite conservation,	_
	Listening and Speaking Activities, Key to Transcription	6
3.	ವೈಯಕ್ತಿಕ, ಸ್ಮಾಮ್ಯಸೂಚಕ/ಸಂಬಂಧಿತಸಾರ್ವನಾಮಗಳುಮತ್ತುಪ್ರಶ್ನಾರ್ಥಕಪದಗಳು- Personal Pronouns,	
	Possessive Forms, Interrogative words	_
	Module – 2	No. of Hours
1.	ನಾಮಪದಗಳಸಂಬಂಧಾರ್್ಕರೂಪಗಳು, ಸಂದೇಹಾಸ್ಪದಪೆಶ್ವಗಳುಮತ್ತತಸಂಬಂಧವಾಚಕ ನಾಮಪದಗಳು -	
	Possessive forms of nouns, dubitive question and Relative nouns	6
2.	ಗುಣ, ಪರಮಾಣಮತ್ತತವಣ್ಣಣಣವಿಶೇಷಣಗಳು, ಸಂಖಯವಾಚಕಗಳು Qualitative, Quantitative and Colour	O
	Adjectives, Numerals	
3.	ಕಾರಕರೂಪಗಳುಮತ್ತುವಿಭಕ್ತಿಪ್ರತ್ಯಯಗಳು -ಸಪ್ತಮಿವಿಭಕ್ತಿಪ್ರತ್ಯಯ - (ಆ, ಅದು, ಅವು, ಅಲ್ಲಿ) - Predictive Forms,	
	Locative Case	
	Module – 3	No. of Hours
1.	ಚತುರ್ಥಿವಿಭಕ್ತಿಪ್ರತ್ಯಯದಬಳಕೆಮತ್ತುಸಂಖ್ಯಾವಾಚಕಗಳು - Dative Cases, and Numerals	
2.	ಸಂಖ್ಯಾಗುಣವಾಚಕಗಳುಮತ್ತುಬಹುವಚನನಾಮರೂಪಗಳು -Ordinal numerals and Plural markers	6
3.	ನ್ಯೂನ/ನಿಷೇಧಾರ್ಥಕಕ್ರಿಯಾಪದಗಳು&ವರ್ಣಗುಣವಾಚಕಗಳು - Defective/Negative Verbs & Colour	
	Adjectives.	
	Module – 4	No. of Hours
1.	ಅಪ್ಪಣೆ/ಒಪ್ಪಿಗೆ, ನಿರ್ದೇಶನ, ಪ್ರೋತ್ಸಾಹಮತುಒತ್ತಾಯಆರ್ಥರೂಪಪದಗಳುಮತ್ತುವಾಕ್ಯಗಳು Permission, Commands,	
	encouraging and Urging words (Imperative words and sentences)	6
2.	ಸಾಮಾನ್ಯಸಂಭಾಷಣೆಗಳಲ್ಲಿದ್ವಿತೀಯವಿಭಕ್ತಿಪ್ರತ್ಯಯಗಳುಮತ್ತುಸಂಭವನೀಯಪ್ರಕಾರಗಳು Accusative Cases and	O
	Potential Forms used in General Communication	
	Module – 5	No. of Hours
1.	ಕಾಲಮತ್ತುಸಮಯದಹಾಗೂಕ್ರಿಯಾಪದಗಳವಿವಿಧಪ್ರಕಾರಗಳು - Different types of Tense, Time and Verbs	
2.	ದ್, ತ್, ತು, ಇತು, ಆಗಿ, ಅಲ್ಲ, ಗ್, ಕ್, ಇದೆ. ಕ್ರಿಯಾಪ್ರತ್ಯಯಗಳೊಂದಿಗೆಭೂತ, ಭವಿಷ್ಯತ್ಮತ್ತುವತ್ಮಾನ್ನ್ಯಲವಾಕಯರಚನೆ -	6
	Formation of Past, Future and Present Tense Sentences with Verb Forms	
3.	Kannada Vocabulary List :ಸಂಭಾಷಣೆಯಲಿಿದಿನೋಪಯೋಗಿಕನ್ನಡಪದಗಳು -Kannada Words in	
	Conversation	

Course	Course Outcomes: At the end of the course, the students will be able to		
CO1	To understand the necessity of learning of local language for comfortable life.		



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CO2	To speak, read and write Kannada language as per requirement.
CO3	To communicate (converse) in Kannada language in their daily life with kannada speakers.
CO4	To Listen and understand the Kannada language properly.
CO5	To speak in polite conservation.

Text I	Text Books			
1.	ಕ್ನುಡಕಲಿಕೆಗಾಗಿ <u>ನಿಗದಿ</u> ಪಡಿಸಿದ ಪ್ಪ ಪ್ರಕ-(Prescribed Textbook to Learn Kannada)			

ASSESSMENT STRUCTURE:

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50). The minimum passing mark for the SEE is 35% of the maximum marks (18 marks out of 50). A student shall secure a minimum of 40% (40 marks out of 100) in the total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

CONTINUOUS INTERNAL EVALUATION (CIE):

Component	Type of Assessment	Max. Marks	weightage	Total Marks	
Theory	Internal Assessment1 (MCQs)	50	Average of Best two		
	Internal Assessment2 (MCQs)	50	Assessments, scale down to		
	Internal Assessment3 (MCQs)	50	40	50	
CCA	Two Assignments	20	10		
SEE	Semester End Examination	100	50	50	
	Grand Total				

SEMESTER END EXAMINATION (SEE):

SEE paper shall be set for 50 questions, each question carries 01 mark. The pattern of the question paper is MCQ (Multiple Choice Questions). The time allotted for SEE is 01 hour.

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO											
CO1	2	1	1	2	1	2	1	-	-	-	-
CO2	1	3	1	1	1	1	1	2	-	=.	-
CO3	2	2	2	2	1	1	1	-	-	-	-
CO4	1	3	1	1	1	1	-	1	-	-	-
CO5	2	1	2	2	2	2	=.	=.	1	1	=

Level 3 - High, Level 2 - Moderate, Level 1 - Low 1



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SEMESTER-I							
	PROFESSIONAL COMMUNICATION SKILLS						
		Category: A	AEC				
Course Code	:	B25BCA106	CIE	:	50 Marks		
Teaching Hours L:T:P	:	2:0:0	SEE	:	50 Marks		
Total Hours	:	30	Total	:	100 Marks		
Credits	:	2	SEE Duration	:	1 Hr		

Module - 3 No. of Hours	Credits	: 2 SEE Duration : 1	Hr			
1. To enable the students to understand the skills required for effective communication at different levels of an organization. 2. To enhance listening, note and presentation skills. 3. To build communication skills among the students required for Digital Platforms. 4. To build Business Correspondence Skills among the students. Module – 1 No. of Hours Fundamentals of Communication Skills among the students. Module – 1 Fundamentals of Communication Skills in troduction - Meaning of Communication; Objectives of Communication; Barriers to Effective Communication; Effective Communication v/s perfect Communication; Barriers to Effective Communication; Effective Communication v/s perfect Communication; Barriers to Effective Communication; Types of Communication of Communication; Types of Communication way. Two-way. (Communication in an organization) Cross Cultural Communication; Kearning; Scope of cross-cultural communication skills; Limitations of Communication skills in business. Verbal and Non-Verbal, Formal & Informal communication Skills Module – 2 Communication Skills: Listening skills: Meaning; Importance of Listening; Types of listening (Meaning& Benefits of types of Listening) —Comprehension, Critical, Attentive, Reflective, Discriminative, Biased, Evaluative; Listening Process, Barriers to listening skills; Overcoming from barriers to listening. Reading Skills—Net-aking skills; Note-taking						
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			6			
Adjustment Latters (a) Collection Latters & etc.						
Adjustificit Letters (c) Collection Letters & ctc.	Adjustr	nent Letters (e) Collection Letters & etc.				



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Course	e Outcomes: At the end of the course, the students will be able to					
CO1	CO1 Understand the skills required for effective communication at different levels of an organization.					
CO2	Enhance themselves with good listening, note taking and presentation skills					
CO3	Build good communication skills among the students required for Digital Platforms.					
CO4	Efficiently Manage with Business Correspondence Skills among the students					

Text I	Text Books					
1.	Communication Skills, Fillip Learning - FL.					
2.	Taylor, Shirley, Communication for Business: A Practical Approach, Pearson Education					
3.	C.S. Raydu, Corporate Communication, HPH					

Refere	Reference Text Book					
1.	Rai&Rai, Business Communication, HPH					
2.	P. Sharman, Bhavani.H, Corporate Communication, VBH					
3.	K. Venkataramana, Corporate Communication, SHBP					
4.	Rajkumar, Basic Business Communication: Concepts, Applications and Skills, Excel Books					
5.	Peter URS Bender, Robert. A.Traez, Secrets of Face to Face Communication, Macmillan India					

ASSESSMENT STRUCTURE:

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50). The minimum passing mark for the SEE is 35% of the maximum marks (18 marks out of 50). A student shall secure a minimum of 40% (40 marks out of 100) in the total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

CONTINUOUS INTERNAL EVALUATION (CIE):

Component	Type of Assessment	Max. Marks	weightage	Total Marks				
Theory	Internal Assessment1 (MCQs)	50	Average of Best two					
	Internal Assessment2 (MCQs)	50	Assessments, scale down to					
	Internal Assessment3 (MCQs)	50	40	50				
CCA	Two Assignments	20	10					
SEE	SEE Semester End Examination		50	50				
	Grand Total							

SEMESTER END EXAMINATION (SEE):

SEE paper shall be set for 50 questions, each question carries 01 mark. The pattern of the question paper is MCQ (Multiple Choice Questions). The time allotted for SEE is 01 hour.

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO											
CO1	1	3	1	2	1	2	-	-	-	-	-
CO2	2	1	1	1	2	1	-	-	-	-	-
CO3	1	2	1	1	2	2	-	-	-	1	-
CO4	2	2	1	1	2	1	-	-	-	-	-

Level 3 - High, Level 2 - Moderate, Level 1 - Low



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SEMESTER-I								
PROGRAMMING IN C LABORATORY								
Category: PCCL								
Course Code	:	B25BCAL107	CIE	:	50 Marks			
Teaching Hours L:T:P	:	1:0:2	SEE	:	50 Marks			
Total Hours	:	30	Total	:	100 Marks			
Credits	:	2	SEE Duration	:	3 Hrs			

	Course Objectives					
1.	Write C programs to perform basic operations such as calculations, comparisons, and data manipulation.					
2.	Implement and demonstrate control structures like loops, conditionals, and switch-case statements in C.					
3.	Manipulate arrays and strings, including operations like finding duplicates, reversing, and applying string					
	functions.					
4.	Demonstrate the use of pointers for advanced operations like swapping numbers and matrix manipulation, and					
	work with structures to manage complex data types.					

Sl. No.	Experiments
	PART-A
1.	Print the value of y for given x=2 & z=4 and analyze the output.
	a. $y = x+++++x$;
	b. y= ++x + ++x;
	c. $y=++x+++x+++x;$
	d. $y = x > z$;
	e. $y=x>z$? $x:z$;
	f. y = x&z
2.	Program to read two numbers and find the largest (demonstration on if else).
3.	Program to read percentage of marks and to display appropriate message (demonstration of switch case
	statement).
4.	Program to read numbers from keyboard continuously till the user presses 999 and to find the sum of only
	positive numbers (demonstration of do-while loop).
5.	Write a program to print sums of even numbers and sum of odd numbers from array of positive integers
	(demonstration of 1D array).
6.	Program to implement built-in string functions.
7.	Program to demonstrate call by value and call by reference.
	PART-B
1.	Program to demonstrate library functions in math.h (demonstration of built-infunctions).
2.	Program to find the roots of quadratic equation (demonstration of else-if ladder)
3.	Program to read a number, find the sum of the digits, reverse the number and check it for palindrome
	(demonstration of while loop).
4.	Program to generate n Fibonacci sequence (demonstration of for loop).
5.	Program to perform addition and subtraction of Matrices (demonstration of 2D array).



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6.	Program to check a number for prime by defining isprime() function (demonstration of user-defined function).
7.	Program to accept USN, Student Name, marks of any 6 Subjects and calculate total marks, Percentage, grade
	and print the all the details in marks card format of a particular student (demonstration of structure).

Cours	Course Outcomes: At the end of the course, the students will be able to						
CO1	CO1 Develop the C Program which includes the structure of a C program, Tokens, Expressions, Operators etc.						
CO2	Demonstrate conditional and iterative statements to write C programs.						
CO3	Construct C programs that use arrays and strings.						
CO4	Design user defined functions to solve real time problems.						
CO5	Demonstration of Structure concepts & Pointers.						

ASSESSMENT STRUCTURE FOR LABORATORY:

- The assessment for each course is equally divided between Continuous Internal Evaluation (CIE) and the Semester End Examination (SEE), with each component carrying 50% weightage.
- For both CIE and SEE, the student is required to conduct one experiment each from both Part A and Part B.
- To qualify and become eligible to appear for SEE, in the CIE component, a student must secure a minimum of 40% of 50 marks, i.e., 20 marks.
- In SEE component, Part A must be evaluating as 40% and Part B will be evaluating as 60%.
- To pass the SEE component, a student must secure a minimum of 35% of 50 marks, i.e., 18 marks. A student is deemed to have successfully completed the course if the combined total of CIE and SEE is at least 40 out of 100 marks.

Component	Type of Assessment	Max. Marks	weightage	Total Marks				
Laboratory	Lab Record & Observation	Evaluating each expt. for 10	15					
		marks						
	Laboratory Test 1: Part - A	50	15	50				
	Laboratory Test 2: part - B	50	20					
SEE	Semester End Examination	100	50	50				
	Grand Total							

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO											
CO1	3	3	3	2	3	-	-	-	-	-	1
CO2	3	2	3	2	2	-	-	-	-	-	1
CO3	2	2	3	2	2	-	-	-	-	-	1
CO4	3	2	3	2	3	-	-	-	-	-	1
CO5	2	3	3	3	3	-	-	-	-	-	1

Level 3 - High, Level 2 - Moderate, Level 1 - Low



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SEMESTER-I									
ESSENTIALS OF COMPUTER LABORATORY									
	Category: PCCL								
Course Code	:	B25BCAL108	CIE	:	50 Marks				
Teaching Hours L:T:P	:	1:0:2	SEE	:	50 Marks				
Total Hours	:	30	Total	:	100 Marks				
Credits	:	2	SEE Duration	:	3 Hrs				

	Course Objectives						
1.	Learn to identify computer peripherals and components, assemble and disassemble them, and troubleshoot basic						
	hardware issues.						
2.	Gain skills in installing various operating systems, configuring system settings, and maintaining the system using						
	built-in tools.						
3.	Develop proficiency in using word processors, spreadsheets, presentation software, and internet browsers for						
	various tasks.						
4.	Acquire the ability to edit multimedia content and create flowcharts using Flow algorithm software for basic						
	programming tasks.						

Sl.					Evne	riments					
					Ехрс	1 IIIICIICS					
No.											
1.		Word Processor assignment to demonstrate usage of Page Setup, Page Background and Paragraph option of Page									
			writing the description								
2.	Wo	ord Process	sor assignment to dem	onstrate Bu	ıllets and	Numbering	g, Headers	and footers			
3.	W	ord Proces	ssor assignment to den	nonstrate us	sage of ma	ail merge b	y creating	g a letter to invite	your parents fo	or the	
			vent. Prepare at least 5								
4.	W	ord Proces	ssor assignment to den	nonstrate us	sage of tab	oles and en	cryption b	y preparing the t	imetable		
5.	De	monstrate	usage of formulas and	d charts in s	spreadshee	et as direct	ed below:				
			ate a spreadsheet with								
		_	1			_				_	
		SL	Student Name	Sub 1	Sub	Sub 3	Total	Percentage	Grade		
		No			2						
	h I	ncert the n	name and marks of 3 s	ubjects of 5	or more	etudente					
						students.					
		c. Calculate total marks obtained and percentage. d. Calculate the grade by applying following criteria:									
			ge >=90, then grade A								
		ii. If percentage >= 75 and < 90, then grade B									
		iii. If percentage >=60 and <75, then grade C									
		iv. If percentage >=50 and <60, then grade D									
	v. I	f percenta	ge <50, then grade E								
	4 1	nsert colu	mn charts for various	subjects							
			hart for one student de		mposition	of 3 subject	et marks.				
6.			usage of data validation								
			ate a spreadsheet with								
			•	Č	•						



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	Emp No	Emp Name	Gender	Designation	DOB	Age	Basic Salary	DA	HRA	Gross Salary	Deduction	Net Salary
	Insert 5 employee details in the columns Emp No., Emp Name, DOB, Basic Salary. b. Add drop-down data validation for Gender and Designation columns											
							gnation co	olumns				
				e Age based	on DOI	3						
			ula to calcu % of Basic									
			25% of Basic									
				of Basic salar	3 7							
				late Gross Sal		Net S	alary					
7.				natting in spr				ow:				
, .				spreadsheet				o				
				1.	1	1	No. of					
							Classes	Atten	dance			
		USN N	ame Date 1	Date 2 Date 3	-	Date N	Attended	Perce	entage			
				A for absent f				. 1	ъ		1	
				ite "No. of cla								
8.				ting to highli				ance Pe	rcentag	e is less	tnan 85%.	
٥.		ayout opt		ation to demo	onstrate	the 101	iowing:					
				and slide nu	nhars							
			of Symbols	and shuc hu	110015							
9.				ation to demo	nstrate	the fol	lowing:					
<i>)</i> .		hemes	omi present	ation to acm	mstrate	the for	iownig.					
	b. T	ransitions										
	c. A	nimation										
10.	Create a	power-p	oint present	ation to demo	nstrate	the fol	lowing:					
		ehearse T					Č					
		arrations	Č									
	c. Sl	ide Sorte	r.									

Cours	se Outcomes: At the end of the course, the students will be able to
CO1	Understand the identification, assembly language, disassembly and basic troubleshooting of computer hardware
	components, including peripherals, CPUs and system hardware
CO2	Gain hands on experience with networking basics including LAN and Wifi setup and configurations
CO3	Develop practical skills in installing and configuring various operating system including windows Unix/Linux and
	dual booting along with system maintenance using BIOS setting, Registry Editor and third party tools
CO4	Enhance proficiency in using office productivity software including word processors spreadsheets presentation tools
	and multimedia editing software
CO5	Apply logical thinking to create flowcharts and perform tasks using flowgarithms software for arithmetic operations
	shape calculations and understanding arrays and recursion



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ASSESSMENT STRUCTURE FOR LABORATORY:

- The assessment for each course is equally divided between Continuous Internal Evaluation (CIE) and the Semester End Examination (SEE), with each component carrying 50% weightage.
- For both CIE and SEE, the student is required to conduct one experiment each from both Part A and Part B.
- To qualify and become eligible to appear for SEE, in the CIE component, a student must secure a minimum of 40% of 50 marks, i.e., 20 marks.
- In SEE component, Part A must be evaluating as 40% and Part B will be evaluating as 60%.
- To pass the SEE component, a student must secure a minimum of 35% of 50 marks, i.e., 18 marks. A student is deemed to have successfully completed the course if the combined total of CIE and SEE is at least 40 out of 100 marks.

Component	Type of Assessment	Max. Marks	weightage	Total Marks			
Laboratory	Lab Record & Observation	Evaluating each expt. for 10	15				
		marks					
	Laboratory Test 1: Part - A	50	15	50			
	Laboratory Test 2: part - B	50	20				
SEE	Semester End Examination	100	50	50			
	Grand Total						

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO											
CO1	3	1	3	1	3	-	-	-	-	-	1
CO2	1	2	3	2	2	-	-	-	-	-	1
CO3	2	2	3	1	2	-	-	-	-	-	1
CO4	1	2	3	2	2	-	-	-	-	-	1
CO5	2	1	3	1	2	-	-	-	-	-	1

Level 3 - High, Level 2 - Moderate, Level 1 - Low



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SEMESTER-I										
ENVIRONMENTAL STUDIES										
	Category: VAC									
Course Code	:	B25BCA109	CIE	:	50 Marks					
Teaching Hours L:T:P	:	0:2:0	SEE	:	50 Marks					
Total Hours	:	15	Total	:	100 Marks					
Credits	:	1	SEE Duration	:	1 Hr					

	Course Objectives							
1.	To explore methods for the sustainable use and conservation of resources such as water, soil, minerals, and							
	biodiversity.							
2.	To explore the social, economic, and ethical dimensions of environmental issues.							

	Module – 1	No. of Hours			
Introdu	action to Environmental Studies: Multidisciplinary nature of environmental studies. Scope and				
importa	nce; Concept of sustainability and sustainable development.				
Ecosyst	tems: What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem:	3			
food ch	ains, food webs and ecological succession. Case studies of the following				
ecosyst	ems:				
a)	Forest ecosystem				
b)	Grassland ecosystem				
c)	Desert ecosystem				
d)	Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)				
Natura	l Resources: Renewable and Non-Renewable Resources				
a)	Land resources and land-use change; Land degradation, soil erosion and desertification.				
b)	Deforestation: Causes and impacts due to mining, dam building on environment, forests,				
	biodiversity and tribal populations.				
c)	Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over				
	water (International & Inter-state).				
d)	Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources,				
	growing energy needs, case studies.				
Module – 2					
Biodive	ersity and Conservation				
a)	Levels of biological diversity: Genetic, species and ecosystem diversity; Biogeographic zones of				
	India; Biodiversity patterns and global biodiversity hotspots.	3			
b)	India as a mega-biodiversity nation; Endangered and endemic species of India.				
c)	Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological				
	invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.				
d)	Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and				
	Informational value.				
		No. of Hours			
	Module – 3				
Enviro	nmental Pollution				
a)	Environmental Pollution: Types, causes, effects and controls; Air, water, soil andnoise pollution.				
b)	Nuclear hazards and human health risks.	3			
c)	Solid waste management, Control measures of urban and industrial waste.				
d)	d) Pollution case student system; Banking complaints and Ombudsman				
	Module – 4	No. of Hours			
Enviro	nmental Policies and Practices				
a)	Climate change, global warming, ozone layer depletion, acid rain and impacts on human				
•	communities and agriculture.	3			
b)	Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act;				
	Water (Prevention and Control of Pollution) Act; Wildlife (Protection) Act; Forest Conservation				



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	Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).	
c)	Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.	
	Module – 5	No. of Hours
Humar	Communities and the Environment	
a)	Human population growth: Impacts on environment, human health and welfare.	
b)	Resettlement and rehabilitation of project affected persons; case studies.	3
c)	Disaster management: Floods, Earthquake, Cyclones and Landslides.	
d)	Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan.	
e)	Environmental ethics: Role of Indian and other religions and cultures in environmental	
	conservation.	
f)	Environmental communication and public awareness, case studies (e.g., CNG vehicles in cities).	

Cours	Course Outcomes: At the end of the course, the students will be able to							
CO1	To understand the roles and responsibilities of various stakeholders in environmental management and policy-							
	making.							
CO2	To teach the principles and practices of natural resource conservation and management.							
CO3	To provide an understanding of the structure and function of natural ecosystems and the relationships between							
	organisms and their environment.							
CO4	To analyze the impact of human activities on the environment, including urbanization, industrialization,							
	deforestation, and climate change.							

Text E	Text Books								
1.	Bharucha, E. (2015). Textbook of Environmental Studies.								
2.	Carson, R. (2002). Silent Spring. Houghton Mifflin Harcourt.								
3.	Climate Change: Science and Politics. (2021). Centre Science and Environment, New Delhi								
4.	Gadgil, M., &Guha, R. (1993). This Fissured Land: An Ecological History of India. Univ. of California Press								

ASSESSMENT STRUCTURE:

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50). The minimum passing mark for the SEE is 35% of the maximum marks (18 marks out of 50). A student shall secure a minimum of 40% (40 marks out of 100) in the total of CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

CONTINUOUS INTERNAL EVALUATION (CIE):

Component	Type of Assessment	Max. Marks	weightage	Total Marks
Theory	Internal Assessment1 (MCQs)	50	Average of Best two	
	Internal Assessment2 (MCQs)	50	Assessments, scale down to	
	Internal Assessment3 (MCQs)	50	40	50
C C A	Two Assignments	20	10	
SEE	Semester End Examination	100	50	50
	Grand	Total		100

SEMESTER END EXAMINATION (SEE):

SEE paper shall be set for 50 questions, each question carries 01 mark. The pattern of the question paper is MCQ (Multiple Choice Questions). The time allotted for SEE is 01 hour.



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PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO											
CO1	3	3	1	1	3	-	-	-	-	-	-
CO2	3	2	1	2	1	1	-	-	-	-	-
CO3	1	1	1	1	2	1	-	-	-	-	-
CO4	1	3	1	1	2	1	-	-	-	-	-

Level 3 - High, Level 2 - Moderate, Level 1 - Low