BANGALORE UNIVERSITY

BCA SEP SYLLABUS

(ALL SUBJECTS) I SEMESTER

SYLLABUS

SEMESTER I

GENERAL ENGLISH - BCA

I Semester – General English Faculty of Computer Application	50/56 hours	Marks
Prose and Poetry	35	50
1. The Golden Dream - Poornachandra Tejaswi	05	
2. The Shooting of an Elephant- George Orwell	05	and the second
 Now I Remain for Myself - Bahinabai Chaudhari 	04	
4. The Bet- Anton Chekhov	05	ST ST
5. Caste and Constitution - Dr. B R Ambedkar	05	
6. At the Railway Station- K S Narasimhaswamy	03	
7. Corpse- Bama	05	
 Do not go Gentle into that Good Night- Dylan Thomas 	03	

Language Components	21	30	
 Data Interpretation – Bar graph, Pie Chart, Tree Diagram 	03	05	
2. Comprehension passages	03	05	
3. Listening vs hearing, Types of Listening	03	05	
 Giving instructions to do a task and to use a device, Giving directions 	04	05	
5. Articles, Prepositions, Tenses	08	10	10

A. FORMATIVE ASSESSMENT - 20 marks B. SUMMATIVE ASSESSMENT - 80 Marks TOTAL - 100 Marks

A. FORMATIVE ASSESSMENT-20 marks

Formative Assessment					
Assessment Occasion/type	Weightage in Marks				
Internal Test 1	05				
Attendance	05				
Internal Test 2	05				
Assignment	05				
Total	20				

B. SUMMATIVE ASSESSMENT – 80 Marks QUESTION PAPER PATTERN I Semester BCA – General English

Cime:	3 hours Max.M	larks:80
, mic.	Instruction: Answer all the questions	
I. II. III.	Section – A (Prose and Poetry) Answer in one or two sentences (5 questions out of 8) Answer in about a page. (4 questions out of 6) Answer in about 2 – 3 pages (2 questions out of 4)	5x2==10 4x5==20 2x10==20
	Section - B (Language Components)	
V	Comprehension	1x5=5
v	Data Interpretation	1x5=5
	Listening VS hearing (one mark questions)	1x5=5
VI.	A Chiles instructions	1x3=3
vii.	A. Giving instructions	1X2=2
	B. Giving directions	1X5=5
VIII.	A. Article and Prepositions B. Tenses (Verbs)	1X5=5
	B. Tenses (Verbs)	なない

Instrument Max. Marke: 804-20 Collection of Prose : "Gadya Sangam" Edited by: Dr. Pathan Hasan Dr. Varsha Sharma (Printed and Published by Prasaranga, Bangalore University, Bangalore) : : Grammar: Samanarti Shabdh, Anek Shabdon Ke Liye Ek Shabd Business Terminology : : Prayojan Mulak Hindi Ki Nayi Bhumika: Karinatak Mahila Hindi Sex Samiti, Chamarajpet, Bangalore. 2) Prayojan Mulak Hindi Ki Nayi Bhumika: Kailash Nath Pandey, Lokabharathi Prakashan, Ilahabad II Semester B.C.A., B.Sc.(FAD)- All B.C.A Courses Language under SEP for the vear 2024-25 and onwards Max. Marke: 80+20 Kailash Nath Pandey, Lokabharathi Prakashan, Ilahabad Dr. Krishna Naik Dr. Mamatha T.S (Printed and Published by Prasaranga, Bangalore University, Bangalore) Vaignanikon Ka Parichay: 1) S. Somanth 2) G. Rangarajan 3) Dr. Homi Bhabha 4) C.N. R. Rao .Sankshepan eference Books: 1) Prayojan Mulak Hindi Ki Nayi Bhumika : Kailash Nath Pandey 2) Prasidha Vaignanik Aur Avishkar : Surjeet 3) Sugam Hindi Vyakarn : Prof. Vanshidhar & Dharmapal Shastr 3) Sugam Hindi Vyakarn : Prof. Vanshidhar & Dharmapal Shastr 1. One Mark Questions (1) out of (2) 1 x6 = 00 2. Annotations from prose (2) out of (3) 2 x 5 = 00 3. Cammar (2) out of (3) 2 x 5 = 00 3. Can			for the year 2024-25 and or	wards	ge under SEr
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Reference Books: 1) Prayojan Mulak Hindi Ki Nayi Bhumika Kanadi Hundi Ki Nayi Bhumika 2) Prasidha Vaignanik Aur Avishkar Surjeet 3) Sugam Hindi Vyakarn Prof. Vanshidhar & Dharmapal Shastr DIVISION OF MARKS Isemester B.C.A., B.Sc.(FAD)- All B.C.A Courses Language under SEP 1. One Mark Questions 10x 1= 10 2. 2 Annotations from prose (2) out of (3) 2 x 7= 14 2. 2 Annotations from prose (2) out of (3) 2 x 15= 30 3. 2 main questions from prose (2) out of (2) 1 x 6= 06 4. 1 short notes from prose (2) out of (3) 1 x 6= 06 5. Grammar (2) out of (3) 1 x 6= 06 Internal Assessment Marks=20 Total=80 Internal Assessment Marks=20 CREDITS-03 I Semester B.C.A., B.Sc.(FAD)- All B.C.A Courses Language under SEP 1. One Mark Questions 2 x 7= 14 2. 2 Annotations from poetry (2) out of (3) 1 x 15= 30 3. 2 main question from poetry (2) out of (3) 1 x 15=30 3. 2 main question from poetry (2) out of (2) 1 x 06=06 1 short notes from poetry <td>. Sankshepan</td> <td></td> <td>an unitat i Dhouille a</td> <td>Kailash Nath I</td> <td>Pandey</td>	. Sankshepan		an unitat i Dhouille a	Kailash Nath I	Pandey
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HOUKS-04	1. One Mark Question 2. 2 Annotations from 3. 2 main questions 4. 1 short notes from 5. Grammar 6. Terminology CREDITS-03 1. One Mark Question 2. 2 Annotations from 3. 2 main question from 3. 2 main question from 5. Vygnanikon Ka Pa 6. Sankshepan	soidha Vaig gam Hindi V <u>Semester B</u> ons m prose from prose from prose prose <u>Semester B</u> ons m poetry om poetry on poetry arichaya	nanik Aur Avishkar : yakarn : <u>DIVISION OF MARK:</u> <u>C.A., B.Sc.(FAD)- All B.C.A C</u> (2) out of (3) (2) out of (3) (1) out of (2) (2) out of (3) <u>HOURS-04</u> <u>C.A., B.Sc.(FAD)- All B.C.A C</u> (2) out of (3) (2) out of (3) (1) out of (2) (1) out of (2) (1) Passage)	Surjeet Prof. Vanshid Scourses Languag Internal Assessi Courses Languag	har & Dharmapal Shastri <u>te under SEP</u> 10x 1= 10 2 x 7= 14 2 x 15=30 1 x 6= 06 2 x 5= 10 10 x 1=10 Theory Total=80 ment Marks <u>= 20</u> Total=100 2 x 7= 14 1 x 15=30 1 x 06=06 1 x 10=10 1 x 10=10 Theory Total = 80 ment Marks = 20
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DEPARTMENT OF TAMIL (UG) BU

The following syllabus is prescribed for various undergraduate courses under SEP 2024 in the subject TAMIL LANGUAGE First Semester BA/BSc/BCA/B.SC(fad)/BPA/BVA/BSW Tamil Language- Paper-1 (Part -1). (For all Arts and Science Students) Syllabus and Text Books Under SEP, W.E.F 2024-25

	Content	Hrs
Unit 1 – Poetry		10
1. KALITHTHOGAI-		
1.Paalaikkali	- 07, 09	
2.Kurinchikkali	- 45, 51	
3.Maruthakkali	- 74	
4.Mullaikkali	- 115	
5.Neitharkkaki	-123	
Unit- II – Poetry		10
2. MULLAIPPAATTU (I	FULL)	
Unit -III – Poetry		10
3. NAALADIYAAR-		
1.Aran Valiyuruththal	- 34,36,39	
2.Meimmai	- 111,113,115	
3.Nallinam Cherthal	- 171,177,179	
4.Thaalaanmai	- 192,193,195	
5.Periyaarai pizhaiyaama	i - 164,166,169.	
Unit - IV- II AKKANAM-		10
Eluththy Ilakkanam		10
Elutitulu liakkallalli		
Unit – V- NOVEL		20
Keethari.		

Text Books:

1.Kalithogai- As mentioned in the priscribed Syllabus/ Text Book/

2.Mullaippaattu- As mentioned in the priscribed Syllabus/ Text Book.

3. Naaladiyaar - As mentioned in the priscribed Syllabus / Text Book.

4. Illakkanam- Nannool - Eluththu Ilakkanam

5. Novel-Keethari –By Tamil Chelvi. Published by NCBH , Chennai

References: 1.Kalithogai – Published by varthamaanan pathippagam T.Nagar, Chennai-17 2.Mullaippaattu -

Published by varthamaanan pathippagam T.Nagar, Chennai-17

3. Naaladiyaar - Kazhaga publication , Chennai -1.

4.Nannool- by Bhavananthi, Kazhaga publication ,Chennai -1.

5. History of Tamil litreture – by Dr.M. Varadarasan, published by Sahithya Academi, New Delhi.

I Semester-BCA/BHM and other course

Title: Sanskrit Poetry, Grammar and Comprehension

		Marks
	1. Introduction to Classical Sanskrit Poetry	56
	2. Selected Portion of a Sanskrit Poetic composition-	
Unit-I	Mahakavya - Kiratharjuniyam Sarga-I&II	
Unit-II	1. Swara Sandhi	24
	2. Padaparichaya- Grammatical Identification of Words	
	3. Translation from Sanskrit to Kannada / English	
	4. Comprehension	
	Internal Assessment	20
	1. Attendance 05	
	2. Test (Minimum 2 tests) 10	
	 Assignment /Seminar / Class room Activity 05 	
	Teaching Hours / week-04	
		4
	Credits-03	
	Total	100

Scheme of Examination

1.	Multiple choice questions		10x1=10
2.	Essay type questions	(1of 2)	1x10=10
3.	Short notes	(2of 4)	2x4=8
4.	Translation and explanation of Shlokas	(4of6)	4x4=16
5.	Reference to context	(3of 5)	3x4=12
6.	Grammar (Should be answered in Sanskr	it only)	
	a) Swara Sandhi	(5of 8)	5x1=05
	b) Padaparichaya	(5of 8)	5x1=05
	c) Translation from Sanskrit to		04
	Kannada / English		
7.	Comprehension		10

Books for study & Reference:

- 1. Kiratharjuniyam Sarga I&II:-Dr. R. Shobha, Published by Prasaranga, BUB
- 2. Kiratharjuniyam:-M.R.Kale- Mothilal Banarasidas Publishers
- 3. Kiratharjuniyam: By Nirnaya sagar Press, Bambay.
- 4. Kiratharjuniyam: Chowkamba Vidya Bhavan.

- 5. Kiratharjuniyam-I Canto-Prof.S.Ramachandra Shastri Prasaranga, BangaloreUniversity.
- 6. History of Classical Sanskrit Literature by M.Krishnamachariyar.
- 7. Samkruta Sahitya Ithihasa (Kannada Translation)- ස්සුකාංශාප්රාම
- Bhasha Shastra Mattu Samskruta Sahitya Charitre (kannada) edited by Dr.K.Krishnamurthy, Vidwan Ranganatha Sharma and Vidwan H.K. Siddagangaiah.
- 9. History of Classical Sanskrit Literature-S.Rangachar
- 10. Samskruta Sahitya Sameekshe (Kannada) Dr.M.Shivakumara Swamy
- 11. Higher Sanskrit Grammar-M.R.Kale.
- 12. Subhodha Samskrutha Vyakarana- D.N. Shanbhag.

DISCRETE STRUCTURES

Course Outcome

CO1 Apply Set theory, Relations, Functions and Mathematical Induction to solve problems

- CO2 Getting familiar with counting techniques and Mathematical Logic, and apply the same to address the real-life problems
- CO3 Learn different operations of a Matrix and apply them to solve real-life problems.
- CO4 Apply graph theory concepts to solve the problems of real world.

UNIT – I

Set Theory: Fundamentals of Set theory, Set Operations, Laws of Set Theory, Counting and Venn Diagrams, Cartesian Product, Relations, Types of Relations, Functions, Types of Functions, Function Composition, Inverse Functions. Mathematical Induction.

UNIT – II

Logic and Counting: Fundamentals of Logic, Propositional Logic, Logical Connectives and Truth Tables, Logic Equivalence, Tautology and Contradiction. Basics of counting, Counting Principles, Pigeonhole Principle, Permutation, Combinations.

UNIT - III

Matrices: Basics of Matrix, Types of Matrices, Operations on Matrices, Inverse of a matrix, Solution for system of linear equations, Determinant, Properties of Determinant, Cramer's Rule, Introduction to Eigen Values and Eigen Vectors.

UNIT - IV

Graph Theory: Graphs: Introduction, Representing Graphs, Operations on graphs, Directed Graphs Graph Isomorphism, Paths, Cycles, Euler Graph, Hamilton Graph, Planar Graphs. Trees: Introduction, Applications of Trees, Spanning Trees, Minimum Spanning Trees, Prim's and Kruskul's Algorithms.

Text Book

- Ralph P. Grimaldi: Discrete and Combinatorial Mathematics, 5th Edition, Pearson Education, 2006.
- 2 Richard Bronson, Schaum's Outline of Matrix Operations, McGraw-Hill publications, 2nd Edition,

Reference Books

- 1 Gregory Hartman, Fundamentals of Matrix Algebra, Third Edition, 2011.
- 2 Gary Haggard, John Schlipf and Sue Whitesides: Discrete Mathematics for Computer Science, (with Student Solutions Manual CD-ROM), Cengage Learning; 1st edition, 2005.

Course Articulation Matrix: Mapping of Course Outcomes (COs)with Program Outcomes(POs1-12)

Course Outcome(COs)		Program Outcomes(POs)										
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	2				1						
CO2	2	3		1			1					
CO3	2	1						1				
CO4	1	1	1									

11 Hours

11 Hours

11 Hours

12 Hours

PROBLEM-SOLVING TECHNIQUE

Course Outcomes

Upon successful completion of the course, the student will be able:

To understand algorithmic strategies for enhancing problem-solving proficiency CO1

CO2 Demonstrate problem-solving tools and techniques using C.

CO3 To analyze the given problems and use appropriate algorithms.

CO4 To implement sorting and searching techniques to develop programs.

UNIT-1

Introduction: The Role of Algorithms in computing, Algorithms as a technology, analyzing algorithms, Designing algorithms, Flow charts. Fundamental Algorithms: Exchanging the values of two variables, Counting, Summation of a set of numbers, Factorial Computation, Generating of Fibonacci sequence, Reversing the digits of an integer, Character to number conversion.

UNIT-II

C Programming: Getting Started, Variables, Operators and Arithmetic expressions. Input and Output: Standard input and output, formatted input and output. Selection statements: Statements and Blocks, If, If-else, if-else-if ladder, nested if, switch. Control Structure: while loop, for loop, do-while loop, break and continue, goto and labels. Pointers and Arrays: Pointers and address, Pointers and function arguments, One-Dimensional array, Two-Dimensional array, Structures and Union, Command line arguments.

UNIT - III

Factoring Methods: Finding the square root of a number, the smallest Divisor of an integer, the greatest common divisor of two integers, computing the prime factor of an integer, raising a number to a large power. Array Techniques: Array order reversal, Array counting, Finding the maximum number in a set, removal of duplicates from an ordered array, partitioning an array, finding the kth smallest element, and multiplication of two matrices.

11 Hours

11 Hours

12 Hours

UNIT - IV

11 Hours

Sorting: Sorting by selection, sorting by exchange, sorting by insertion, sorting by diminishing increment, sorting by partitioning. Searching: Linear Search, Binary search. Text processing and Pattern searching: Text line length adjustment, keyboard searching in text, text line editing, linear pattern searching.

Text Book

- 1 R. G. Dromey, "How to Solve it by Computer", Person Education India, 2008.
- 2 Brain M. Kernighan and Dennis M. Ritchie, "The C Programming Language", 2nd edition, Princeton Hall Software Series, 2012.
- 3 Thomas H Cormen, Charles E. Leiserson, Ronald L. Rivest, Clifford Stein, "Introduction to Algorithms", 3rd Edition, The MIT Press Cambridge, Massachusetts London, England, 2008.

Reference Books

- 1 E. Balaguruswamy, "Programming In ANSI C", 4th edition, TMH Publications, 2007
- 2 Greg Perry and Dean Miller, "C programming Absolute Beginner's Guide", 3rd edition, Pearson Education, Inc, 2014.
- 3 Donald E. Knuth, The Art of Computer Programming", Volume 2: Seminumerical Algorithms, 3rd Edition, Addison Wesley Longman, 1998.

Course Articulation Matrix: Mapping of Course Outcomes(COs) with Program Outcomes(POs1-12)

Course Outcome(COs)		Program Outcomes(POs)										
	1	2	3	4	5	6	7	8	9	10	11	12
CO1	3	3	1	1	1	1	2	1	1	1	2	1
CO2	3	3	3	2	1	1	1	1	1	1	2	1
CO3	3	3	1	1	1	1	1	1	1	1	2	1
CO4	3	3	2	2	1	1	1	1	1	1	2	1

Pedagogy: Lecture with the use of ICT/ Field Study / Assignment

Formative Assessment for Theory				
Assessment Occasion Type	Marks			
C-1 Sessional Tests	5			
C-1 Seminars/ Presentations	5			
C-2 Sessional Tests	5			
Case Study / Assignment / Project work etc.	5			
Total	20 Marks			
Formative Assessments as per SEP guidelines are compulsory				

PROBLEM-SOLVING TECHNIQUE LAB

Write, and execute C Program for the following:

- 1. To read the radius of the circle and to find area and circumference.
- 2. To read the numbers and find the biggest of three.
- 3. To check whether the number is prime or not.
- 4. To find the root of quadratic equation.
- 5. To read a number, find the sum of the digits, reverse the number and check it for palindrome.
- To read the numbers from keyboard continuously till the user presses 999 and to find the sum of only positive numbers.
- To read percentage of marks and to display appropriate message. If a percentage is 70 and above- Distinction, 60-69 – First Class, 50-59 – Second Class, 40-49 Pass, below 40 – Fail.(Demonstrate of if-else ladder)
- To simulate a simple calculator with addition, subtraction, multiplication, division and it should display the error message for division of zero using switch case.
- To read marks scored by n students and find the average of mark (Demonstration of single dimensional array)
- 10. To remove duplicate elements in a single dimensional array.
- 11. To find the factorial of a number.
- 12. To generate Fibonacci series.
- To demonstrate string functions. (String Length, String Copy, String Concatenate, String Comparison)
- 14. To find the length of the string without using built-in function.
- 15. To read, display and add two n x m matrices using function.
- To read a string and to find the number of alphabets, digits, vowels, consonants, space and special characters.
- 17. To swap two numbers using pointers.
- 18. To demonstrate student structure to read & amp; display records of n students.
- To demonstrate the difference between structure and union for the following Student name (String), Student roll no(integer), Student mark(float)
- 20. To design the following pattern using nested for loop:

COMPUTER ARCHITECTURE

Course Outcome

- CO1 Understand various arithmetic and logical operations on different types of numbers to design an arithmetic and logic unit.
- CO2 Demonstrate Design and implement sequential logic circuits using ICs
- CO3 Analyze the basics of computer organization and its design and the basic processing unit

CO4 Implement the instruction sets and to develop assembly language programming skills.

UNIT-1

Number Systems: Decimal, Binary, Hexadecimal, Octal Number System Conversions, Binary Arithmetic, Complements- r's complement, (r-1)'s complement, Addition and subtraction of BCD, Octal Arithmetic, Hexadecimal Arithmetic, Binary Codes, Decimal Codes, Error detecting and correcting codes, ASCII, EBCDIC, UNICODE, Digital Logic Circuits: Digital Computers, Logic Gates, Universal Gates, Boolean algebra, Map Simplification.

UNIT-2

Combinational Circuits- Half Adder and Full Adder, Flip-Flops- SR Flip- Flop, D Flip-Flop, J-K Flip-Flop, T Flip-Flop, Sequential Circuits- Flip-Flop input equations, State Table, State Diagram and problems. Digital Components: Integrated Circuits, Decoders-3-to-8-line decoder, NAND gate Decoder, Octal to Binary Encoder, Multiplexers- 4-to-1 line Multiplexer, Registers- 4 bit register with parallel load, Shift Registers- Bidirectional shift register with parallel load, Binary Counters-4-bit synchronous binary counter.

UNIT-3

Basic Computer Organization and Design: Instruction Codes, Computer Registers, Computer Instructions, Timing and Control, Instruction Cycle, Memory-Reference Instructions, Input-Output Interrupt, Complete Computer Description, Design of Basic Computer, Design of Accumulator logic. Central Processing Unit: Introduction, General Register Organization, Stack Organization, Instruction Formats, Addressing Modes, Data Transfer and Manipulation, Program Control, Reduced Instruction Set Computer (RISC), CISC Vs RISC.

UNIT-4

Introduction to 8085 Assembly language programming: Architecture of 8085, Pin Configuration, The 8085-programming model, Instruction classification, Instruction, data formats, and storage. How to write assemble and execute a simple program, overview of 8085 instruction set. Introduction to 8085 Instructions: Instruction classification of 8085 based on word length and functions, Data Transfer operations, Arithmetic operations, Logic Operations, Brach operations, Writing Assembly language programs, Addressing modes of 8085.

Text Book

- 1 M. Morris Mano- "Computer System Architecture", 3rd Edition Pearson India, 2019.
- 2 Ramesh Gaonkar- "Microprocessor Architecture, Programming and Applications with the 8085", 5th Edition, Penram International Publishing (India) Private Limited,2007.
- 3 Andrew S. Tanenbaum, Todd Austin –"Structured Computer Organization", PHI Pearson 6th, Edition,2013.

Reference Books

- William Stallings- "Computer Organization and Architecture", Pearson/PHI, 6th Edition,2007.
- 2 Andrew S. Tanenbaum-" Structured Computer Organization", PHI /Pearson 4th Edition,1998.
- 3 M.V. Subramanyam, "Switching Theory and Logic Design", Laxmi Publications Ltd, 2011.

[12Hours]

[11Hours]

[11Hours]

[11Hours]



COMPUTER ARCHITECTURE LAB

- 1. Write an 8085 Program to swap two 8-bit numbers.
- a. Write a Program to find the largest of two numbers
 b. Write an 8085 Program to find the smallest of two numbers
- Write an 8085 Program to find whether an 8-bit number is positive, negative or zero. If positive display EE, if negative display FF, if zero display DD.
- Write an 8085 Program to check whether 4th bit of a number is zero or one. If 4th bit is 1 display FF, if 4th bit is 0 display DD.
- 5. Write an 8085 Program to calculate the sum of first ten natural numbers.
- Write an assembly language program in 8085 microprocessors to find the sum of digits of an 8-bit number.
- 7. Write an 8085 Program to find the reverse of an 8-bit number
- Write an 8085 Program to check whether 1-byte number is a palindrome or not. If it is a
 palindrome display FF otherwise display DD.
- Write an 8085 Program to check whether a number is ODD or EVEN. If Even no. display DD, if odd no. display FF.
- 10. Write an 8085 program to count a number of ones in the given 8-bit number.
- 11. Write an 8085 program to find Addition & Subtraction of two 8 -bit HEX numbers.
- 12. Write an 8085 program to find Addition of two 16-bit numbers.
- Write an 8085 program to find Subtraction of two 16 –bit numbers.
- 14. Write an 8085 program for Swapping of two 16-bit numbers.
- 15. Write an 8085 program to implement 2 out of 5 codes
- Write an 8085 program to generate Fibonacci series
- 17. Write an 8085 program to find the first ten terms of odd and even numbers.
- 18. Write an 8085 program to find 4-Digit BCD addition.
- 19. Write an 8085 program to find Multiplication of 2-digit BCD numbers.
- 20. Write an 8085 program to find division of two 8-bit umbers.

University Grants Commission

ENVIRONMENTAL STUDIES

Number	r hrs/week	Duration of the exam	Total hours	Credits			
3 k	nours	3 hours	45	2			
F	ormative asse	essment Marks: 20	Semester end assessme	nt Marks:80+20=100			
		COURSE OUTCOMES ((COs): Students are ab	le to			
$CO_{\rm c}$ 01	Define the	multidisciplinary approacl	n and nature that is for p	productivity of different			
	ecosystems	and ecological dynamics.	, sustaining of natural re	esources			
COs 02	Explain the	e current status of natural r	esources, habitats and b	iodiversity			
$C \cap_{\mathcal{C}} 03$	Describe th	ne types of environmental	pollution and control r	measures. Environmental			
CUS 05	policies and practices						
COs 04	Interpret the human development and environmental threats						
$CO_{2}05$	Summarize the environmental ethics, values and environmental movements in						
CUS 05	environmen	ntal conservation					

	Content of CC – Environmental Studies	45 hours
Unit 1:	 Introduction to Environmental Studies: Multidisciplinary nature of environmental studies, Scope and importance; Concept of sustainability and sustainable development, SDG Goals Ecosystem: Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Terrestrial Ecosystems: Forest ecosystem, Grassland ecosystem, Desert ecosystem; ponds, streams, lakes, rivers, oceans, estuaries 	09
Unit 2:	 Natural Resources: Renewable and Non-Renewable Resources: Land resources: Land-use and land cover change; Land degradation, Soil erosion, and desertification. Forest Resources: Types and scope; Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity, and tribal populations. Water Recourses: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter- state). Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies. Biodiversity and Conservation: Levels of biological diversity: Genetic, species and ecosystem diversity; Biogeographic zones of India Biodiversity nation; Endangered and endemic species of India. Threats to biodiversity: Habitat loss, poaching of wildlife, man- wildlife conflicts with case studies, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. 	13

Unit 3:	Environmental pollution: types, causes, effects and controls; Air,	13
	water, soil and noise pollution, nuclear hazards and human health risks,	
	Solid waste; management and control measures of urban and industrial	
	waste with case studies.	
	Environmental Policies and Practices: Climate change, global	
	warming, ozone layer depletion, acid rain and impacts on human	
	communities and agriculture.	
	Environment Laws: Environment Protection Act; Air (Prevention &	
	Control of Pollution) Act; Water (Prevention and control of Pollution)	
	Act; Wildlife Protection Act; Forest Conservation Act. International	
	agreements: Montreal and Kyoto protocols and Convention on	
	Biological Diversity (CBD).	
	Nature reserves, tribal populations and rights, and human wildlife	
	conflicts in Indian context.	
	Human Communities and the Environment: Human population	
	growth: Impacts on environment, human health and welfare.	
	Resettlement and rehabilitation of project affected persons; case	
	studies.	
	Disaster management : floods, earthquake, cyclones and landslides	
	with case studies.	
	Environmental movements: Chipko, Silent valley, Bishnois of	
Unit 4:	Rajasthan.	10
	Environmental ethics: Ecological, economic, social, ethical,	
	aesthetic and Informational value. Role of Indian and other religions	
	And cultures in environmental conservation.	
	Environmental communication and public awareness, case studies -	
	CNG vehicles in Delhi).	
	Field work – Field report to be submitted	

Course Articulation Matrix: mapping of Course Outcomes (COs) with Program Outcomes (POs 1-12)

Course Outcomes (COs)/ Program Outcomes (POs)		Program Outcomes (POs)										
		2	3	4	5	6	7	8	9	10	11	12
CO 1	1	2	1	1	3	1	1	1	1	2	1	1
CO 2	1	-	1	2	2	1	3	2	1	1	1	1
CO 3	-	1	3	1	1	-	2	3	2	1	-	1
CO 4	1	1	1	2	3	2	1	-	1	1	1	1
CO 5	1	1	1	2	2	2	1	1	1	1	1	1

Pedagogy:

Teaching Strategies: Use of Digital tools and platforms for teaching, learning and field/dissertation analysis. Inquiry-based learning, group discussions, Interactive Lectures, quiz, group work, Field –oriented studies, Study trip, case studies and debates, hands on training.

Continuous Assessment and Evaluation: Formative and Summative Assessments, Feedback and oral examinations

Formative Assessment for Theory			
Assessment type	Marks		
Sessional Tests- 1	10		
Attendance	05		
Assignment/Seminar	05		
Total	20 marks		
Formative Assessment as per SEP Guidelines			

Reference

- 1. Bharucha, E. (2015). Textbook of Environmental Studies.
- 2. Carson, R. (2002). Silent Spring. Houghton Mifflin Harcourt.
- 3. Climate Change: Science and Politics. (2021). A *Centre for Science and Environment (CSE)*, Publication, New Delhi.
- 4. Gadgil, M., and Guha, R. (1993). *This Fissured Land: An Ecological History of India*. Univ. of California Press.
- 5. Gleeson, B. and Low, N. (eds.) (1999). *Global Ethics and Environment*, London, Routledge.
- 6. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. (2006). *Principles of Conservation Biology*. Sunderland: Sinauer Associates.
- McCully, P. (1996). *Rivers no more: the environmental effects of dams* (pp. 29-64). Zed Books.
- 8. McNeill, John R. (2000). Something New Under the Sun: An Environmental *History of the Twentieth Century*.
- 9. Nandini, N., Sunitha N., and Sucharita Tandon. (2019). *A text book on Environmental Studies (AECC)*. Sapna Book House, Bengaluru.
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	OFFICE AUTOMATION TOOLS
S.NO	LAD NAME OF EXPERIMENTS
	SECTION A
	Creating the documents with Special effects like
1	underline, bold, different
	size, different font and different color.
2	Creating Paragraphs Inserting Date & Time, Pictures,
2	Bullets & Numbering, indeptation atc. in MS Word
	Formatting features of MS-Word -it includes paper-size
3	margins, header and
C	footer, page no. and creation of table options.(Time
	Table). Creation of mail merge for sending the new year wish to
4	vour class group.
-	Creating Worksheets in Excel, Inserting, Deleting,
	Copying, Moving worksheets in Excel Usage of
	formulas, Built-in functions in Excel.(Monthly
5	income and expenditure statement.)
	Graph-Plotting facilities in MS Excel.(Display student
6	results using excel charts)
	Writing conditional expressions (using IF) and Using
	logical functions (AND, OR, NOT) Using lookup and
7	reference functions (Arithmetic functions,
	logical functions, text functions).
	Data Validations :Specifying a valid range of values for
	a cell, Specifying a list of valid values for a cell,
8	Specifying custom validations based on formula for a
	cell, Sorting and Filtering Data facility in MS
	Excel.(Employees of a
	company)
	Creating a presentation in PowerPoint- Inserting /
9	Deleting slides in
	PowerPoint.
10	Creation of Silde transition and Editing special effects in PowerPoint
10	
11	Creation of Inserting sound and picture in PowerPoint.

SECTION B

1	Write the procedure to create a personal Letter.(with
1	Write the procedure to create a resume (with proper
2	format).
-	Write the procedure to create a letter head of a
3	company. (with proper format).
	Write the procedure to create a cover page of a project report.(with proper
4	format).
5	Write the procedure to create a macros in word.
	Create a Visiting Card of your college using page size as follows
6	i)Page width="3.2" ii)Page height="2.2" And use
	different font styles, sizes, alignments
	Creation of Inserting chart and organization chart in
7	PowerPoint.(Eight
	salesmen sell three products for a week.)
	Write the procedure to store the data and calculate total
8	and percentage of the
	following details for 10 Students. (In Ms Access)
	Write the procedure to store the data and calculate total and percentage of the
9	following details for 10 Students.Generate marks card.(
	In Ms Access
	Create a report containing pay details of employees of a
10	company.(In Ms
	Access).
11	Creation of slides using SMARTART in PowerPoint.

