



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of Alva's Education Foundation)

Shobhavana Campus, M/Jar-574225, Moodbidri, D.K

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Affiliated to VTU Belagavi and Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka

ATTENDANCE BOOK

Academic Year : 2019 - 2020

Semester : I Section: 'C'

Period of the Semester : From to 21-Dec-2019

Subject with Code C.PROGRAMMING..FOR..PROBLEM..SOLVING [18CPS 13]

Name of the Faculty : SHILPA

Department : COMPUTER..SCIENCE..AND..ENGINEERING

VISION OF THE INSTITUTE

"Transformative education by pursuing excellence in Engineering and Management through enhancing skills to meet the evolving needs of the community"

MISSION OF THE INSTITUTE

- To bestow quality technical education to imbibe knowledge, creativity and ethos to students community.
- To inculcate the best engineering practices through transformative education.
- To develop a knowledgeable individual for a dynamic industrial scenario.
- To inculcate research, entrepreneurial skills and human values in order to cater the needs of the society.

VISION OF THE DEPARTMENT

"Engendering competent, excellent professionals by transforming the knowledge and computing skills to individuals through modern innovative tools and techniques".

MISSION OF THE DEPARTMENT

1. To produce skilled, creative software developers through rigorous training.
2. To conduct specific technical courses to keep abreast to the latest technological developments and transformations in the domains.
3. To implement the ideas of research and innovations in inter disciplinary domains.
4. To establish Industry-Institute Interaction programs to enhance the skills of employability and entrepreneurship.

COURSE OUTCOMES	
CO1	List and explain the hardware & software components of the computer with basics of networking.
CO2	Explain the basics of C programming constructs and Apply the same for given simple programming examples.
CO3	Comprehend the concepts of arrays & strings and Implement the searching and sorting algorithms for the given problem.
CO4	Comprehend the concepts of functions & recursion and Apply them in finding factorial and fibonacci series.
CO5	Illustrate the concepts of structures, pointers and pre-processor directives and Implement the same for solving the problem.
CO6	

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AIET	Lesson Plan & Execution			Format No.	ACD 08	
				Issue No.	01	
				Rev. No.	00	
Name of the faculty			Shilpa			
Semester and Section			1 sem 'C' sec			
Date of Commencement						
Last Working Day of the Semester			21/12/2019			
Source Materials List						
1. E Balaguruswamy			Programming in ANSIC , 7th edition Tata McGraw-Hill			
2. Brian W Kernighan , Dennis M Ritchie			C Programming language , Prentice Hall of India			
3. Sumithabha Das			Computer Fundamentals & C Programming McGraw-Hill			
4. Gray J Bronson			ANSIC Programming 1st edition Cengage Learning			
5. Vikas Gupta			Computer Concepts and C programming			
Subject Name						
Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
1.	28/08/2019	<u>Module-01</u> Computer Generations Computer Types	1, 2	<u>Module-01</u> Computer Gene- ration and Computer Types	28/8/2019	1, 2
2.	30/08/2019	Bits , bytes , word and Central process- ing unit	1, 2	Bits , bytes , word , Central processing unit	28/8/2019	1, 2
3.	31/08/2019	Primary Memory Secondary Memory	1, 2	Primary Memory Secondary mem- ory	30/8/2019	1, 2
4.	4/09/2019	Ports and connection Input devices	1, 2	Ports and Connection , Input devices	31/8/2019	1, 2

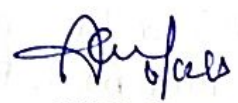
Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
5.	6/9/2019	Output devices, Computers in a networks	1,2	Output devices Computers in a networks	4/9/2019	1,2
6.	7/9/2019	Network hardware Software basics	1,2	Network hardware, Software basics	4/9/2019	1,2
7.	11/9/2019	Software types, Overview of C-Basics Structure of C prgm	1,2	Software types, Overview of C Structure of C	6/9/2019	1,2
8.	13/9/2019	Constant, variable and data types	1,2	Executing a C program, Constant Variable	7/9/2019	1,2
9	14/9/2019	Operators and expressions	1,2	Data types	9/9/2019	1,2
10	16/9/2019	Operators and Expressions	1,2	Operators and Expressions	11/9/2019	1,2
11	18/9/2019	<u>Module-02</u> Managing Input & Output operations	1,2	Operations and Expressions	11/9/2019	1,2
12	20/9/2019	Managing input & Output operations	1,2	Operators and expressions	13/9/2019	1,2
13	21/9/2019	Conditional Branching and Loops	1,2	Revision of module-01 topics	14/9/2019	1,2
14	23/9/2019	Conditional Branching and loops	1,2	<u>Module-02</u> Managing Input & Output operations	16/9/2019	1,2
15	25/9/2019	Example programs	1,2	Managing Input & Output operations	18/9/2019	1,2
16	27/9/2019	Example programs	1,2	Conditional branching & looping	18/9/2019	1,2
17	30/9/2019	Finding roots of a quadratic equation	1,2	Conditional branching & looping	20/9/2019	1,2

Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
18	11/10/2019	Finding roots of a Quadratic equation, Computational of binomial co-efficients	1,2	Looping statements	21/9/2019	1,2
19	12/10/2019	Computational of binomial Co-efficient	1,2	Example programs	23/9/2019	1,2
20	14/10/2019	Plotting of Pascal triangle	1,2	Example program	25/9/2019	1,2
21	16/10/2019	<u>Module - 03</u> Arrays one dimensional	1,2	Example program	25/9/2019	1,2
22	18/10/2019	Arrays one dimensional examples	1,2	Finding roots of a quadratic equation	27/9/2019	1,2
23	19/10/2019	Two dimensional array	1,2	Explanation of Quadratic equation	30/9/2019	1,2
24	21/10/2019	Two dimensional array examples	1,2	Computational of binomial co-efficient explanation	9/10/2019	1,2
25	23/10/2019	Character arrays and Strings	1,2	Program on Computation of binomial Co-efficient	9/10/2019	1,2
26	25/10/2019	Character arrays and Strings	1,2	Plotting of Pascal triangle	11/10/2019	1,2
27	26/10/2019	Basic Algorithms - Searching and sorting algorithms	1,2	<u>Module - 03</u> Arrays one dimensional	12/10/2019	1,2
28	2/11/2019	Linear search algorithm	1,2	1D array example program	14/10/2019	1,2
29	4/11/2019	Binary Search & Bubble sort	1,2	Two dimensional Array	16/10/2019	1,2
30	6/11/2019	Bubble sort and Selection sort	1,2	Two dimensional array example	16/10/2019	1,2

Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
31	8/11/2019	<u>Module-04</u> User defined function and Recursive function	1, 2	Two dimensional array example	13/10/2019	1, 2
32	9/11/2019	User defined function & Recursive function	1, 2	Character array and Strings	19/10/2019	1, 2
33	11/11/2019	User defined function & Recursive function	1, 2	Character array Strings.	21/10/2019	1, 2
34	16/11/2019	Recursive function	1, 2	Strings example program	23/10/2019	1, 2
35	18/11/2019	Example program	1, 2	Basic Algorithm	23/10/2019	1, 2
36	20/11/2019	Example program	1, 2	Searching & Sorting -technique	25/10/2019	1, 2
37	22/11/2019	Example program	1, 2	Linear Search algorithms	26/10/2019	1, 2
38	25/11/2019	Finding factorial of positive number	1, 2	Binary search & bubble sort algorithm	28/10/2019	1, 2
39	27/11/2019	Finding factorial & Fibonacci series	1, 2	Selection sort algorithm.	30/10/2019	1, 2
40	29/11/2019	Fibonacci Series	1, 2	<u>Module-04</u> User defined function	30/10/2019	1, 2
41	30/11/2019	<u>Module-05</u> Structure and Pointer	1, 2	User defined function	2/11/2019	1, 2
42	2/12/2019	Structures Nested Structure	1, 2	User defined function	4/11/2019	1, 2
43	6/12/2019	Structures & array	1, 2	Recursive function	6/11/2019	1, 2

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	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
44	7/12/2019	Structure and function Pointer	1,2	Recursive function	6/11/2019	1,2
45	9/12/2019	Pointers	1,2	Example program	8/11/2019	1,2
46	11/12/2019	Preprocessor directives	1,2	Example program	9/11/2019	1,2
47	13/12/2019	Preprocessor directives	1,2	Example program	11/11/2019	1,2
48	14/12/2019	Preprocessor directives	1,2	Example program on recursive function	16/11/2019	1,2
49	20/12/2019	Dynamic memory allocation	1,2	Finding factorial of positive number	18/11/2019	1,2
50	21/12/2019	DMA & preprocessors directives	1,2	Finding factorial of positive number	20/11/2019	1,2
51			1,2	Fibonacci Series explanation	20/11/2019	1,2
52			1,2	Fibonacci Series program	22/11/2019	1,2
53			1,2	<u>Module-05</u> Structures	23/11/2019	1,2
54			1,2	Structures & Nested Structures	25/11/2019	1,2
55			1,2	Nested Structure & Structure & function	27/11/2019	1,2
56			1,2	Structure and Array	29/11/2019	1,2

Period	Plan			Execution		
	Date	Topics to be covered	Source Material needed	Topics Covered	Date	Source Material Referred
57			1,2	Structure and Array	29/11/2019	1,2
58			1,2	Pointers	30/12/2019	1,2
59			1,2	Pointers & Array	2/12/2019	1,2
60			1,2	Pointers to pointers	2/12/2019	1,2
61				Dynamic memory allocation	5/12/2019	1,2
62				Preprocessor directives	07/12/2019	1,2
63				Preprocessor directives	11/12/2019	1,2
64				Revision of Module - 01	13/12/2019	1,2
65				Revision of Module - 02	14/12/2019	1,2
				Revision of Module - 03	14/12/2019	1,2
				Module - 04 Revision	20/12/2019	1,2
				Module - 05 Revision.	21/12/2019	1,2

Others	Planned	Actual	Remarks :
Special Classes	10	10	
Tutorials	2	8	
Assignments	05	05	
Seminars	01	-	
IA Tests	3	3	
Portions Covered in the entire Semester	100% [5 - Modules]		
Course Effectiveness			
Students Feedback	Good		
Students Response	Good		
Result	No. of Students AP	No. of Students Passed	% of Result
Faculty in Charge  Signature of Principal (& Remarks if any)  PRINCIPAL Alva's Institute of Engg. & Technology, Mijar, MOODBIDRI - 574 225, D.K.  HOD's Signature H. O. D. Dept. Of Computer Science & Engineering Alva's Institute of Engg. & Technology Mijar, MOODBIDRI - 574 225			