



JAI HIND COLLEGE BASANTSING INSTITUTE OF SCIENCE

J.T.LALVANI COLLEGE OF COMMERCE (AUTONOMOUS) "A" Road, Churchgate, Mumbai - 400 020, India.

Affiliated to University of Mumbai

Syllabus for S.Y.BCom Course : Computer Programming Semester : III

Credit Based Semester & Grading System With effect from Academic Year 2019-20

List of Courses

Course:	Computer	Programming	Semester:	III
	1			

Sr. No	Course Code	Course Title	Credits	Lectures /Week		
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1	CCP301	Computer Programming-I	3	3		
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Course Code: CCP301	rse Computer Programming-I le: 301				
Learning Objectives	er :e				
Course description	The course aims to introduce students to understand basic computer architecture. Describe program language evolution and classification. To develop the algorithmic thinking skills required for structured problem solving.				
		(45 lectures)			
1	THEORY	1			
Sub Unit	Unit – I: HARDWARE	10 lectures			
1.	Evolution of Computers – Generations, Types of Computers, Computer System, Characteristics, Basic Components of a Digital Computer – Control Unit, ALU, Input / Output, Functions and Memory, Memory Addressing Capability of a CPU, Binary number system, Binary addition (1's complement, 2's Complement), Binary to decimal and Decimal to Binary Conversion, Octal Number, Hexadecimal System, World length of a computer, processing speed of a computer.				
Sub Unit	Unit – II: SOFTWARE	10 lectures			
2.	Software and its Need, Types of Software – System Software, Application software, System Software – Operating System, Utility Program, Algorithms, Flow Charts – Symbols, Rules for making Flow chart, Programming languages, Assemblers, Compilers and Interpreter, Computer Applications in Business.				
Sub Unit	Unit – III : INTRODUCTION TO C PROGRAMMING	13 lectures			
3.	Structure of C program, Keywords, identifies, constants, variables, data types, type modifier, type conversion, types of operator and expressions, Input and Output functions in C (print(), sancf(), getchar(), putchar(), gets(), puts()). Storage class specifiers Header files(stdio.h,math.j,conop.j)				
Sub Unit	Unit – IV: C – DECISION / LOOP STATEMENTS	12 lectures			

4.	Decision Statement – if-else statement, break, continue, goto, switch () case and nested if statement. Loop control statements – for (), while (), do-while loop () and nested loops.			
5.	LABORATORY TRAINING			
	Lab 1: Writing algorithms and drawing flowcharts (Input-process- output).			
1.2	Lab 2: Writing algorithms and drawing flowcharts (Input-decision-process-output).			
	Lab 3: Writing algorithms and drawing flowcharts (Simple Loops).			
	Lab 4: Loading a C editor program-Entering and compiling a simple C-program.	1		
	Lab 5: C-program to input name-and sales & then print name and commission.			
	Lab 6: C-program to compute commission, discount etc using if() condition.			
1	Lab 7: Computing income tax based on given criterion.			
	Lab 8: Printing numbers and summing number using loops.			
	Lab 9 : Printing interest and depreciation tables.			
	CA 1 = 20 marks –Class Test CA 2 = 20 marks -Presentation			
ICA	Total CAs = 40 marks			
Continuous Assessment)	AN THE			
References:	 Programming In C –Ashok Kamthane –Pearson Education Programming in C –Ajay Mittal Pearson Education C pocket reference By Peter Prinz, Ulla Kirch Prinz – O'Reilly 			
	4. C programming Language –Brian w.Kernighan,Dennis M.Ritchie –Prenticehall			
	5. C The complete Reference Herbert Schildt – Osborne/McGraw Hill			
	6. Practical C Programming – Steve Oualline –O'Reilly			

Evaluation Scheme

[A] Evaluation scheme for Theory courses

I. Continuous Assessment (C.A.) - 40 Marks

(i) C.A.-I :Test – 20 Marks of 40 mins. duration

(ii) C.A.-II : Presentation – 20 Marks

II. Semester End Examination (SEE)- 60 Marks

- Q.1 Answer any two -10 Marks
- Q.2 Answer any two -10 Marks
- Q.3 Answer any two -10 Marks

