EE207 COMPUTER PROGRAMMING 2-1-0-3 2016 Course Objectives To impart knowledge about programming in C To learn basics of PYTHON. Syllabus Introduction to Programming, Basic elements of C, Control statements in C, Arrays an Strings, Functions, Storage classes ,Structures and Pointers, File Management in C, Introduction to Python Expected outcome. 1. Ability to design programs using C language 2. Ability to develop simple programs using Python Text Book:1)E. Balaguruswamy, <i>Programming in ANSI C</i> , Tata McGraw Hill, New Delhi 2) John V Guttag, Introduction to Computation and programming using Python, PHI Learning,				
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2) John V Guttag, Introduction to Computation and programming using Python, PHI Learning,				
New Delhi.				
Data Book (Approved for use in the examination): Nil				
References:				
1. P. Norton, Peter Norton's Introduction to Computers, Tata McGraw Hill, New Delhi				
2. Byron S. Gottfried, Programming with C. Schaun Outlines –McGraw Hill,				
3. Ashok Kamthane, Programming with ANSI & Turbo C- Pearson education				
4. K.R. Venugopal and S.R. Prasad, Mastering C - Tata McGraw Hill				
5. Kelley, Al & Pohl, A Book on C- Programming in C, 4th Ed., Pearson Education				
Course Plan				
Module Contents Hours Sem.ExamMar				
Introduction to Programming: Machine language. 5bours				
assembly language, and high level language. Compilers				
and assemblers.				
Flow chart and algorithm – Development of algorithms				
I for simple problems.				
Basic elements of C: Structure of C program –Keywords,				
Identifiers, data types, Operators and expressions – Input				
and Output functions				
Control statements in C: <i>if, if-else while do-while and</i> 7 bours				
II for statements switch break continue go to and labels				
Programming examples				
FIRST INTERNAL EXAMINATION				
Arrays and Strings: Declaration initialisation processing 7 hourse 15%				
III arrays and strings two dimensional and multidimensional				
arrays and strings two dimensional and mutual monsional				
Functions : Functions – declaring defining and accessing 7 hours 15%				
functions – parameter passing methods – – passing arrays				
IV to functions Recursion				
Storage classes – extern auto register and static Example				
nrograms				
SECOND INTEDNAL EVAMINATION				

V	Structures – declaration, definition and initialization of	8 hours	20%
	structures, unions		
	Pointers: Concepts, declaration, initialization of pointer		
	variables, Accessing a Variable through its Pointer Chain		
	of Pointers, Pointer Expressions, Pointer Increments and		
	Scale Factor, Pointers and Arrays, examples		
VI	File Management – File operations, Input/Output	8hours	20%
	Operations on Files, Random Access to Files ,File pointer.		
	Introduction to Python :Basic Syntax, Operators, control statements, functions-examples.	M	
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QUESTION PAPER PATTERN (End semester exam)

Part A: 8 questions.

One question from each module of Module I - IV; and two each from Module V & VI. Student has to answer all questions. (8 x5)=40

Part B: 3 questions uniformly covering modules I&II

Student has to answer any 2 questions: (2 x 10) =20

Part C: 3 questions uniformly covering modules III&IV

Student has to answer any 2 questions: $(2 \times 10) = 20$

Part D: 3 questions uniformly covering modules V&VI

Student has to answer any 2 questions: $(2 \times 10) = 20$

Note: Each question can have maximum of 4 sub questions, if needed.

2014