Course Code	COMPUTER PROGRAMMING AND PROBLEM	L	T	P	C
CSE101	SOLVING	2	0	2	3
Version					
Course Prerequisites:	Nil				
Objectives:	1. To provide an overview of computer algorithms and problem solving				
	techniques	-			
	2. To introduce 'C' Language that serves as a foundation	ation	for th	e stuc	ly of
	different programming languages.				
Expected Outcome:	Students shall be able to				
	1. Apply the fundamental knowledge of cor	nputi	ng a	ılgori	thms
	appropriate to the problems				
	2. Analyze and design problems using various	s pro	blem	s sol	ving
	techniques				
	3. Formulate and solve computing problems usi	ng C	prog	gramr	ning
	language. A Apply algorithmic principles and current technic	iauca	for	omn	ıtina
	 Apply algorithmic principles and current techni and engineering practice. 	ques	101 (ompt	ımıg
Unit I	INTRODUCTION TO COMPUTERS AND 6 ho	nirs			
Omt I	ALGORITHMS	uis			
Parts of a computer – Overview of operating systems, compilers, interpreters and programming					ning
	for exchanging the values of two variables, counting, su				
	putation, sine function computation, generation of the				
_	integer, base conversion and character to number conversi			1	,
Unit II	BASIC CONSTRUCTS IN 'C' 6 ho				
	ators - Data types – I/O statements – Format specifications	– Cor	ıtrol		
statements – Decision ma					
Unit III	ARRAYS 6 hc				
Arrays handling in C – Declaration – single dimensional arrays, two – dimensional arrays,					
<i>3</i>	, sorting and searching on single and two dimensional array	ys.			
Character array – string handling functions – manipulation on strings.					
Unit IV	FUNCTIONS & POINTERS 8 has			1: 00	
Prototype Declaration - Arguments (formal and actual) - Return type - types of functions, difference					
between built-in and user-defined functions, introduction to pointers, passing parameters by value and					
reference, recursive functions, scope and life time of variables – storage classes. Unit V STRUCTURES AND UNION 4 hours					
Unit V			ion	diffo-	once
between structure and un	uctures – array of structures – passing structure to function	ıs - ur	11011- (umer	ence
Text / Reference Books	1. Yeshawant Kanetkar, Let Us C, Jones &	Rart	lett D	nhlie	here
TOAT / INCIDITED DUUKS	11th Edition, 2008.	שמו	тен Г	aumsi	1013,
	2. R.G. Dromey, How to Solve it by Compu	ıter F	renti	се Ня	ıll of
	India, 2001.		- 52161		01
	3. Ashok Kamthane, Programming in C, 2	2 nd Eo	dition	, Pea	ırson
	Education, 2001.				
Mode of Evaluation	Tests, Assignments, Seminars				
Recommended by the					
Board of Studies on					
Date of Approval by the					

Academic Council	