

		L	T	P	C
15IT102L	PROGRAM DESIGN AND DEVELOPMENT LAB	0	0	2	1
	Total contact hours – 30				
	Prerequisite				
	Nil				
PURPOSE					
Knowledge of problem solving and programming concepts is essential for those who develop applications for users. Hence to provide the required knowledge, this course imparts basic knowledge in C programming along with the concepts of design and development of programs using C.					
INSTRUCTIONAL OBJECTIVES					
1.	Gain knowledge about problem solving in computers				
2.	Understand the basic components and structure of a C program				
3.	Develop proficiency in basic programming skills				

LIST OF EXERCISES (30 hours)

1. Programs to demonstrate the use of scanf() and printf() functions
2. Programs to evaluate arithmetic expressions
3. Programs using conditional statements
4. Programs using for-while - do...while
5. Programs on arrays
6. Programs to perform matrix addition and multiplication
7. Programs to implement functions
8. Programs to illustrate recursion
9. Programs to Illustrate pointers

REFERENCES

1. Maureen Sprankle, “*Problem Solving and Programming Concepts*”, Pearson, 7th Edition, 2011
2. E. Balagurusamy, “*Programming in ANSI C*”, Tata McGrawHill, 5th Edition, 2011.
3. Y.P. Kanetkar, “*Let us C*”, BPB Publications, 8th Edition, 2008.
4. Steve Oualline, “*Practical C Programming*”, O’Reilly Publishers, 2011.
5. Byron Gottfried, “*Programming with C*”, Schaum’s Outline Series, 2nd Edition, 2000.

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Course designed by		Department of Information Technology													
1	Student outcome	a	b	c	d	e	f	g	h	i	j	k	l	m	n
		X		X						X					
2	Mapping of instructional objectives with student outcome	1		2						3					
3	Category	General (G)		Basic Sciences (B)		Engineering Sciences and Technical Arts (E)			Professional Subjects (P)						
									X						
4	Broad area (for 'P'category)	Programming		Networking		Data base		Web System		Human Computer Interaction			Platform Technologies		
		X													
5	Approval														