Course			20ES1253		Yea	Year		Ι		Sem	ester		II		
Code															
Course			0 0		Bra	Branch		CSE		Cou	Course Type			Lab	
Category			Science												
Credits						L-T-P		0-0-3			Prerequisites			Nil	
Continuous			1:	5		Semester End			35		Total			50	
Internal					Eva	Evaluation					Marks				
Evalu	ation	l				<u> </u>		0	Outcomes						
Unor	011000	active -	omnlat	on of 4						t_{0} (I 2)					
CO1		cessful completion of the course, the student will be able to (L3) pply Structured Programming/C constructs for solving problems (L3).													
CO1 CO2		plement programs as an individual on different IDEs/ online platforms. (L3)													
CO2 CO3		evelop an effective report based on various programs implemented. (L3)													
CO3		oply technical knowledge for a given problem and express with an effective oral													
C04		communication. (L4)												c orar	
CO5		Analyze outputs using given constraints/test cases.													
Contribution of Course Outcomes towards achievement of Program Outcomes &															
Strength of correlations (3:High, 2: Medium, 1:Low)															
	PO1	PO2		PO4	PO5		PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1			1										3		
CO2					1				1						
CO3										2					
CO4										3					
CO5		2										1			
							Syl	labus					r		
Exp				Syllabus									Mapped CO's		
No.		· ·													
1		Draw flowcharts for fundamental algorithms.											CO1,CO2, CO3,CO4,CO5		
2													C03,C04,C03		
Δ		C Prog	rams to	demor	strate	C-toke	ns.						C01,C02, C03,C04,C05		
3													C01,C02,		
		C Programs on usage of operators.											CO3,CO4,CO5		
4														CO1,CO2,	
		C Programs to demonstrate Decision making and branching (Selection)												CO3,CO4,CO5	
5		Come anoma to domentation d'fference la com												CO1,CO2,	
		C programs to demonstrate different loops.												CO3,CO4,CO5	
6		C programs to demonstrate 1-D arrays.											CO1,CO2,		
		C programs to demonstrate 1-D arrays.												CO3,CO4,CO5	
7		C prog	rams to	demon	strate	multi-c	limens	ional a	ravs.				CO1,CO2,		
		C programs to demonstrate multi-dimensional arrays.											CO3,CO4,CO5		
8		C programs to perform operations on strings with String handling functions and without String handling functions.											CO1,CO2,		
0		and Wi	mout St	ring ha	nunng	iuncti	UIIS.						CO3,CO4,CO5		
9		C prog	rams to	demon	strate	functio	ns.						CO1,CO2, CO3,CO4,CO5		
10		_											, ,		
10		C prog	rams on	i pointe	rs.								CO1,CO2, CO3,CO4,CO5		
11													C01,C02,		
11		C prog	rams on	struct	ires an	id unio	ns.						CO1,CO2, CO3,CO4,CO5		
12		C programs to demonstrate files.											CO1,CO2,		
		<u>- r</u>													

Programming for Problem Solving Lab

Learning Resources

Text Books

CO3,CO4,CO5

1. Programming in C, Reema Thareja, AICTE Edition, 2018, Oxford University Press

Reference Books

- 1. Computer Science: A Structured Programming Approach Using C, B. A. Forouzan and R.F. Gilberg, Third Edition, 2007, Cengage Learning.
- 2. Programming in C, Pradip Dey, Manas Ghosh, AICTE Edition, Oxford University Press.
- 3. Programming with C, B. Gottfried, Third Edition, 2017, Schaum's outlines, McGraw Hill (India).
- 4. Problem Solving and Program Design in C, Jeri R. Hanly, Ellot B. Koffman, Fifth Edition, Pearson.

e- Resources & other digital material

- 1. http://cprogramminglanguage.net/
- 2. https://www.geeksforgeeks.org/c-programming-language/
- 3. https://nptel.ac.in/courses/106105085/4