Course		20ES1253		Yea	Year		I		Sem	Semester		II			
Code							~~~								
Course			Engineering		Bra	Branch		CSE		Cou	Course Type		Lab		
Category Credits			Science 1.5		Тт	L-T-P		0-0-3		Dror	Prerequisites		Nil		
Credits			1.5			L-1-P Semester End		35		Total		5	50		
Internal			1.5			Evaluation		55		Marks			50		
Evaluation					Lva					Iviai					
Livar	141101					C	ourse	Outcor	nes						
Upon	succ	essful o	completi	on of t	he cou					to (L3)					
CO1	Ap	pply Structured Programming/C constructs for solving problems (L3).													
CO2	Im	plement programs as an individual on different IDEs/ online platforms. (L3)													
CO3		evelop an effective report based on various programs implemented. (L3)													
CO4		oply technical knowledge for a given problem and express with an effective oral													
		communication. (L3)													
CO5 Analyze outputs using given constraints/test cases. (L4)															
Contribution of Course Outcomes towards achievement of Program Outcomes &															
	Strength of correlations (3:High, 2: Medium, 1:Low)PO1PO2PO3PO4PO5PO6PO7PO8PO9PO10PO11PO12										DO12	DCO1	DGO2		
CO1	PO	1 PO2	2 PO3	P04	PO5	PO6	PO/	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1					2				1				3		
CO2 CO3									1	2					
CO4	2									2					
CO5			3							2					
							Syl	labus							
Exp	ot.	v											N/		
No.		Syllabus											Mapped CO's		
1		Draw flowcharts for fundamental algorithms.										CO1,CO2,			
$\begin{array}{c} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ \end{array}$													CO3,CO4,CO5		
		C Programs to demonstrate C-tokens.										CO1,CO2,			
		C											CO3,CO4,CO5		
		C Programs on usage of operators.											CO1,CO2, CO3,CO4,CO5		
													C03,C04,C05 C01,C02,		
		C Programs to demonstrate Decision making and branching (Selection)											C01,C02, C03,C04,C05		
													C01,C02,		
		C programs to demonstrate different loops.											CO3,CO4,CO5		
													C01,C02,		
		C programs to demonstrate 1-D arrays.											CO3,CO4,CO5		
7		C programs to domonstrate multi-dimensional arrays											CO1,CO2,		
		C programs to demonstrate multi-dimensional arrays.											CO3,CO4,CO5		
8		C programs to perform operations on strings with String handling functions											CO1,CO2,		
		and without String handling functions.											CO3,CO4,CO5		
9		C programs to demonstrate functions.											CO1,CO2,		
1.0														CO3,CO4,CO5	
10	,	C prog	grams or	n pointe	ers.								CO1,CO2,		
11		- F Quanto on Pointero.											CO3,CO4,CO5		
		C programs on structures and unions.											CO1,CO2, CO3,CO4,CO5		
12		C programs to demonstrate files.											C01,C02,		
12											- - ,				

Programming for Problem Solving Lab

CO3,CO4,CO5

Text Books

Learning Resources

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