CSS 51 Computing Laboratory 0-0-2 1 Credit 2 Hours

Department of Computer Science and Engineering							
Course Code	Title of the course	Program Core (PCR) / Electives (PEL)	Total Number of contact hours				Credit
			Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	
CSS51	Computing Laboratory	PCR	0	0	2	2	1

Pre-requisites	Course Assessment methods (Continuous (CT) and End assessment (EA))
None	CT+EA [CT: 60%, EA(Laboratory assignment + Viva Voce): 40%]

Course Outcomes	• CO1: To understand the principle of operators, loops and branching statements. • CO2: Implementation of function, recursion, arrays, and pointers based several types of assignments. • CO3: To detail out the operations of strings. • CO4: To understand structure and union. • CO5: Application of C-programming to solve various types of problems.
Topics Covered	List of Experiments: 1. Assignments on expression evaluation. 2. Assignments on conditional branching, iterations, pattern matching. 3. Assignments on function, recursion. 4. Assignments on arrays, pointers, parameter passing. 5. Assignments on string using array and pointers. 6. Assignments on structures, union.
Text Books, and/or reference material	**Text Books:** Y. Kanetkar, "Let Us C", BPB Publications, Sixteenth edition (2017). B. S. Gottfried, "Programming with C", McGraw Hill Education, Fourth edition (2018). E Balagurusamy, "Computing Fundamentals and C Programming", McGraw Hill Education; Second edition (2017). **Reference Books:** 1. P Dey and M. Ghosh, “Computer fundamentals and programming in C”, Oxford press, 2013. 2. Reema Thareja, “Computer fundamentals and programming in C”, Oxford press, 2013. 3. Schaum’s Outline, Programming with C.

Mapping of CO (Course Outcome) and PO (Programme Outcome)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	2	-	-	-	1	-	-	-	1	-	-	1
CO2	1	-	1	-	2	-	-	-	2	-	-	1
CO3	1	-	-	-	1	-	-	-	1	-	-	1
CO4	1	-	-	-	1	-	-	-	1	-	-	1
CO5	2	2	3	1	3	-	-	-	3	-	-	2

Correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)