# 17CS12P1 - C-PROGRAMMING LABORATORY

(Common to CSE, IT, ECE and EEE)

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| **Course Category:** | Program Core | **Credits:** | 2 |
| **Course Type:** | Practical | **Lecture - Tutorial - Practical:** | 0-0-3 |
| **Prerequisite:** | Basic mathematical knowledge to solve problems in analytical manner and idea on programming Methodologies. | **Sessional Evaluation:**  **Univ. Exam Evaluation:**  **Total Marks:** | 40  60  100 |

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| **Course Outcomes** | Upon successful completion of the course, the students will be able to: | |
| CO1 | Solve problems using C programming concepts |
| **Course Content** | 1. To evaluate expressions. 2. To implement if constructs. 3. To implement Switch statement. 4. To implement all iterative statements. 5. To implement Arrays. 6. To implement operations on Strings without using Library functions. 7. To implement arithmetic operations using pointers. 8. Implement both recursive and non-recursive functions. 9. To implement parameter passing techniques. 10. To implement Structures. 11. To implement basic File operations. | |
| **Text Books and References** | Text Books:   1. Programming with ANSI & TURBO C by Ashok N.Kamthane, Pearson Education 2007 | |
| Reference Books:   1. A Book on C by Al Kelley/Ira Pohl, Fourth Edition, Addison-Wesley.1999 2. Let Us C by Yashavant Kanetkar, BPB Publications. 3. Programming in ANSI C by Balaguruswamy 6th Edition, Tata McGraw Hill Education, 2012. | |
| **E-Resources** | 1. <https://nptel.ac.in/courses> 2. <https://freevideolectures.com/university/iitm> | |