**19CS11P1 - PROGRAMMING FOR PROBLEM SOLVING LABORATORY**

**(Common to all Branches)**

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| **Course** | | Program Core | | | | | | | | |  | **Credits:** | | 1.5 | |  |
| **Category:** | |  |  |
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| **Course Type:** | | Practical | | | | | | | | |  | **Lecture – Tutorial – Practical:** | | 0-0-3 | |  |
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|  |  | Basic mathematical knowledge to solve problems and computer fundamentals | | | | | | | | |  | **Sessional Evaluation:** | | 40 | |  |
| **Prerequisite:** | |  | **Univ.Exam Evaluation:** | | 60 | |  |
|  |  |  | **Total Marks:** | | 100 | |  |
| **Objectives:** |  | * To learn the C programming constructs and its implementation | | | | | | | | | | | | | |  |
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| **Course** | Upon successful completion of the course, the students will be able to Solve problems using C programming concepts | | | | | | | | | | | | | | |  |
| **Outcomes** |  |
|  |  | 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. | | | | | | | | | | | | | |  |
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| **Course** |  |  |
| **Content** |  |  |
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|  |  | **TEXT BOOK(S):**   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 [YashavantKanetkar,](http://www.amazon.in/s/ref=dp_byline_sr_book_1?ie=UTF8&field-author=Yashavant+Kanetkar&search-alias=stripbooks) BPB Publications. 3. Programming in ANSI C by Balaguruswamy6th Edition, Tata McGraw Hill Education,2012. | | | | | | | | | | | | | |  |
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| **Text Books and** |  |  |
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| **References** |  |  |
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| **E-Resources** |  | 1.<https://nptel.ac.in/courses> | | | | | | | | | | | | |  | | |  |
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|  | **2.**[https://freevideolectures.com/university/iit](https://freevideolectures.com/university/iitm)m | | | | | | | | | | | | |  | | |  |
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