

CS101C: Computer Programming

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Autumn 2025
Course Overview



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CS101C: Computer Programming

- Description:

This course provides an introduction to problem solving with computers using 'C' as a programming language.

- Credit structure (L-T-P-C) : 3-0-3-9

3 contact hours (three 50min lectures) per week. 6 credits.

3 lab hours (150 mins in total) per week. 3 credits.

Full-semester (14 week + 2 exam week) core course.

- Prerequisites: None

CS101: Computer Programming

- Developer essentials
 - Editors, Integrated Development Environment (IDE), Unix Shell, Library-based development, Compiler toolchain
- Programming in C
 - Machine representation, data types and control flow, operators, arrays and strings, functions and recursion, pointers and structures, Input and output using files
- Applications: Sample problems in engineering, science, text processing, and numerical methods.

CS410: Parallel Computing

- References and Texts:

- **The C Programming Language**, Brian W Kernighan, Dennis M Ritchie, Prentice Hall India , 2nd edition, 1988
- **Programming with C (Second Edition)** Byron Gottfried, Schaum's Outlines Series, Tata-Mcgraw Hill, 2011
- **How to Solve It by Computer**, by G. Dromey, Prentice- Hall, Inc., Upper Saddle River, NJ, 1982.
- **How to Solve _It (2nd ed.)**, by Polya, G., Doubleday and co, 1957.
- **Let Us C**, by Yashwant Kanetkar, Allied Publishers, 1998.