



National Institute of Electronics and Information Technology
Short Term Courses

Name of the Course: Certificate Course in Programming through C Language

Course Code: STC/PRGL/CT01

Duration of the Course : 80 Hours

Yearly Session: Jan to Mar session, April to June session, July to September session, October to December session.

Fees: 9550/- (Including Registration fees, Course fees, Examination fees, Course Material) which is inclusive of the present Service Tax. *Note- Registration fees, Course fees, Examination fees is free for SC/ST candidates.*

Minimum Eligibility Criteria and pre-requisites: Basic Knowledge of computer

Objective of the Course: The course is designed to provide programming fundamentals using C

Learning Outcomes: After the completion of the course, students will be able to understand the basic terminology used in computer, write , compile and debug programs in C language and use different data types in a computer program.

Available Job Roles: Different Roles Involves for the person who works in Software Industry on C Programming Language based Development: Development Engineer, Firmware Engineer, Application Engineer, Test Engineer, Integration Engineer, Validation Engineer. You may also get work in Embedded System which involve the work related to developing the software for different hardware or for the products.

Outline of Course:-

| S. No | Topic | Minimum No. of Hours |
|-------|------------------------------|----------------------|
| 1 | Introduction to C | 02 hrs |
| 2 | Data types & operator | 06 hrs |
| 3 | Logical & looping constructs | 15 hrs |
| 4 | Functions | 06 hrs |
| 5 | Arrays & Pointers | 25 hrs |
| 6 | Structures & union | 10 hrs |

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|----------------------------------------------|---------------------------------|--------|
| 7 | Standard library & header files | 06 hrs |
| 8 | File Handling Operations | 10 hrs |
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| Theory / Lecture Hours: | | 40 hrs |
| Practical / Tutorial / Lecture Hours: | | 40 hrs |
| Total Hours: | | 80 hrs |

Recommended Hardware:

- Intel Core i3 Processor/i5 Processor/Dual Core
- 2 GB RAM
- 500 GB Hard disk
- DVD Writer
- LCD/LED Monitor
- Keyboard (Normal)/Multimedia Keyboard
- Optical Mouse
- LAN Card

Recommended Software: Turbo C++ ver.3.0

- Visual C++ ver. 6.0
- LINUX gcc compiler

Books recommended for reference and reading:

“Problem solving with C” By M.T.Somashekara (PHI)