

Course: Introduction to Programming in C

Course Code: noc20-cs91

Session: 2020-21

Duration: 8 Weeks

Assessment procedures: Weekly Assignment (25%) + proctored certification Exam (75%)

Curriculum of the Course:

Week 1 :

- Intro - Process of programming
- Intro - Programming cycle
- Intro - GCD
- Intro - Tracing a simple program
- Intro - Variables
- Intro - Operators

Week 2: Loops

- Loops - While
- Loops - While example
- Loops - While GCD example
- Loops - Longest 1
- Loops - Longest 2
- Loops - Longest 3
- Loops - Do-while
- Loops - Matrix using nested loops
- Loops - For
- Loops - Matrix using nested for loops
- Loops - Break statement
- Loops - Continue statement
- Loops - Continue statement example

Week 3: Functions

- Functions - Introduction
- Functions - How functions are executed
- Functions - Examples - 1
- Functions - Examples – 2

Week 4: One-Dimensional Arrays and Pointers

- Arrays in C
- Initializing arrays
- Initializing character arrays
- Pointers in C

- Function with pointer arguments
- Programming using arrays and pointers

Week 5: Recursion

- Recursion - Linear Recursion
- Recursion - Linear Recursion – 2
- Recursion - Two-way Recursion

Week 6: Multi-dimensional Arrays, Linked Lists.

- Multidimensional Arrays
- Multidimensional Arrays and Pointer

Week 7: Operating on Files

- File Handling
- Some other file-handling functions

Week 8: Organizing C projects, working with multiple source directories, makefiles.

- Organizing code into multiple files - 1
- Doubly Linked Lists - introduction
- Pre and post increment operators

List of enrolled students

1	Aashna Puri
2	Hansika Agarwal
3	Amit Singh
4	Devanshi Dadhich
5	Dinesh Kumar Tak
6	Gaurav Kumar
7	Mayank Jindal
8	Keshav Meena
9	Kanika Singhal
10	Devendra Kaur
11	Akshat Khandelwal
12	Rishi Sharma
13	Krishnesh Khalora
14	Jayant Kumawat
15	Lalit Choudhary

16	Lokesh Choubisa
17	Muskan Meena
18	Sarim Ur Rehman
19	Mohit Agarwal
20	Oswin Patrick Rozario
21	Rohit Haridasan
22	Saijal Gulyani
23	Yogendra Singh
24	Sangeeta Sharma
25	Sabhyata Agarwal
26	Suryapratapsingh
27	Sachin Yadav
28	Tanish Khandal
29	Yaman Kumar Malik