Course: Introduction to Programming in C

Course Code: noc20-cs91

Session: 2019-20

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		16	Lokesh Choubisa
2	Hansika Agarwal		17	Muskan Meena
3	Amit Singh		18	Sarim Ur Rehman
4	Devanshi Dadhich		19	Mohit Agarwal
5	Dinesh Kumar Tak		20	Oswin Patrick Rozario
6	Gaurav Kumar		21	Rohit Haridasan
7	Mayank Jindal		22	Saijal Gulyani
8	Keshav Meena		23	Yogendra Singh
9	Kanika Singhal		24	Sangeeta Sharma
10	Devendra Kaur		25	Sabhyata Agarwal
11	Akshat Khandelwal		26	Suryapratapsingh
12	Rishi Sharma		27	Sachin Yadav
13	Krishnesh Khalora		28	Tanish Khandal
14	Jayant Kumawat		29	Yaman Kumar Malik
15	Lalit Choudhary			