

Course: An Introduction To Programming Through C++

Course Code: noc20-cs53

Session: 2019-20

Duration: 12 Weeks

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

Curriculum of the Course:

Week 1:

- Introduction to computers using graphics.
- Notions of program organization
- control flow.

Week 2:

- Basic data types
- Variables.
- Assignment statement.
- Introduction to program design using examples such as summing infinite series.

Week 3:

- Statements of C++ for conditional execution
- looping.

Week 4:

- Applications such as computing mathematical functions
- root finding.

Week 5:

- Functions.
- Parameter passing. Recursion.
- Correctness issues.

Week 6:

- Recursive algorithms
- recursive drawings.
- Breaking larger programs into functions.

Week 7:

- Arrays.
- Basic array processing strategies including passing arrays to functions.
- Pointers.
- Applications illustrating use of arrays to store sets

- sequences.
- Iterating over pairs of objects from an array
- Selection sort.

Week 8:

- Use of arrays to represent textual data.
- Multidimensional arrays.
- Command line arguments.
- Binary search. Merge sort.

Week 9:

- Structures.
- Pointers with structures.
- Structure examples.

Week 10:

- Dynamic memory allocation.
- Basic mechanisms
- pitfalls.

Week 11:

- Use of the standard library in designing programs.
- Design of medium size programs.

Week 12:

- A program for designing
- solving resistive circuits with a graphical user interface

List of students enrolled

S. No	Name of Student
1	RITIKA AGARWAL
2	akshita singhvi
3	Abhishek Dixit
4	Abhinav Mishra
5	Abhishek khandelwal
6	Ashish Kumar
7	Aditya Nehra
8	Ritika Agarwal
9	Aditya Gaur
10	Deepak Agrawal

11	Payoj Agrawal
12	Sneha Agrawal
13	Akshat jain
14	Ajay prajapat
15	Akshat Gadodia
16	Akshat Singhal
17	Akshita Sharma
18	akshita suthar
19	Akshita Patidar
20	Aman Baheti
21	Amit soni
22	Anagh Kumar
23	Mukul Anand
24	Ankit sharma
25	Anoop Gupta
26	Anshita Raghuvanshi
27	Ansh khandelwal
28	Anshul Maurya
29	anshul ranka
30	Anshuman gupta
31	Anuj Sharma
32	Anurag Joshi
33	Aryan
34	abhishek
35	BrijeshNenwani
36	BRIJ KISHORE SHARMA
37	Chirag patni
38	Deeksha choudhary
39	Pradhum Malhotra
40	Deepak meena
41	Deepesh Yadav
42	Pradeep Dhupar
43	Disha Nagori
44	divya arora
45	Divyanshu pareek
46	DIVYANSH RAJ SHARMA
47	Abhishek Dusad
48	Harsh singh gahlot
49	Amar Chopra
50	Gaurav Gahlot
51	Gaurav Bhandari
52	Gautam tinker

53	PRABHAT GUPTA
54	rajat gagar
55	Hardik tyagi
56	Siddharth Harshit
57	Harshita Sharma
58	Harshit Gupta
59	hitesh kumar
60	Harshit Jhalani
61	Jatin badlani
62	JAYESH SINGH SAGAR
63	Jayesh Singh
64	jitendra kumar prajapt
65	Jitendra Agrawal
66	Karan Sabnani
67	Kartik saini
68	kaushal kumar
69	Akshat khandelwal
70	khushi khandelwal
71	Khushwant Panwar
72	Rishi Sharma
73	Ravi Raj
74	Kshitij Mittal
75	Arvind kumawat
76	Prateek Kumawat
77	Kumkum Maurya
78	Gaurav Sharma
79	Akshat Lakhera
80	Lokesh Choubisa
81	Ashutosh Maheshwari
82	Khushi Malasiya
83	MANALI SHARMA
84	MANOJ KUMAR SAHU
85	Manu Pareek
86	Mayank Ratnakar
87	Manas Dodiya
88	Muskan meena
89	mohit choudhary
90	Mukul jangid
91	Mukul Sharma
92	Mulkit sain
93	Muskan Tailor
94	navdeep dhakar

95	nikhil khandelwal
96	Niramay Vyas
97	Sonali Nishad
98	Nishi Chouhan
99	Nishita Mathur
100	NAMIT PATNI
101	Nupur mathur
102	Aman Kumar Pandey
103	Parineeta bagra
104	Piyushi agarwal
105	piyush jangid
106	poonam vijay
107	Pradeep Kumar Prajapati
108	prateek baheti
109	prateek kumar
110	pravesh jain
111	Priya Singh Raghav
112	Puneet Tanwar
113	Rachit Gupta
114	Radhika Sodhani
115	Raghav Gupta
116	Rahul Kumar Balai
117	rahul sharma
118	Rahul Singh
119	Rajesh Daya
120	Raju sharma
121	rakshita AGARWAL
122	Ranu Goyal
123	Raunak Advani
124	Ravi shankar suthar
125	Rangnath ram
126	Rishabh Garg
127	Ritesh Kumar Maurya
128	Ritik sharma
129	Rahul Bhati
130	Rohit jain
131	Rohit Kucheria
132	Rohit kumar meerwal
133	Mend
134	Ronak vijayvergia
135	Sushil Kumar Sadhnani
136	Gaurav sain

137	Ashik Saini
138	Aman Saini
139	SUMIT SAINI
140	Reddy Sai Praveen Reddy
141	Saloni chhaparwal
142	Samridhi arya
143	Samyak Bardiya
144	sanidhya saxena
145	sanuj Mohan
146	ABHISHEK TRIPATHI
147	Saurabh Pareek
148	sonu choudhary
149	Gautam sharma
150	Pankaj Sharma
151	Sakshi sharma
152	Shiv Maheshwari
153	shiv kumar modi
154	Shobhit khandelwal
155	Shruti Gupta
156	SHUBHAM GUPTA
157	Mohit singhal
158	Dhananjay Nathawat
159	Sabhyata Agarwal
160	aman singh
161	Simran rathore
162	Jayesh soni
163	Deepak Meena
164	Soumya Agarwal
165	Sourabh vyas
166	Shiv pratap singh chouhan
167	Sunidhi Sharma
168	Swati Gupta
169	Tanishq Chaturvedi
170	Tanmay Jaiswal
171	TANUJ
172	Tejas kulothia
173	Yuvraj Singh
174	Vaibhav talreja
175	Vanshika kar
176	Ritik Garg
177	V.Vighnesh Rajan
178	Vinay vyas

179	Vinit Kumar Shah
180	RAHUL KHANDELWAL
181	Vishal Nama
182	Priyanka jain
183	Abhishek Sharma
184	Yaman Kumar Malik
185	yash raj mishra
186	Yashvir Singh
187	Yashwardhan Gaur
188	Yash goyal
189	yogesh kumar singh