

Course: Computer Graphics

Course Code: noc20-cs90

Session: 2020-21

Duration: 8 Weeks

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

Curriculum of the Course:

Week 1:

- Introduction - historical evolution
- Issues and challenges
- Graphics pipeline
- Hardware and software basics

Week 2:

- Object representation - boundary representation,
- Splines
- Space partitioning

Week 3 :

- Modeling transformations - matrix representation
- Homogeneous coordinate system
- Composition
- 3D transformations

Week 4 :

- Illumination and shading - background
- Simple lighting model
- Shading models
- Intensity representation,
- Color models
- Texture synthesis

Week 5 :

- 3D viewing - viewing pipeline
- View coordinate system,
- Viewing transformation,
- Projection
- W-viewport transformation

Week 6 :

- Clipping and hidden surface removal - clipping in 2D. 3D clipping algorithms
- Hidden surface removal

Week 7 :

- Rendering - scan conversion of line
- Circle, fill-area and characters
- Anti-aliasing

Week 8 :

- Graphics hardware and software - generic architecture
- I/O
- GPU
- Shader programming,
- Graphics software (openGL)Business Etiquette

List of students enrolled

S. No	Name of Student
1	Adarsh Dixit
2	akshita sopra
3	aman singh
4	Anagh Kumar
5	Apoorva
6	Chhavi Jangid
7	Chirag Bhayana
8	Chitwan Agarwal
9	VIJAY CHOUDHARY
10	Devaksh Narwara
11	Dinesh Jajoo
12	Divyanshi Khandelwal
13	EKLAVYA JOSHI
14	Farhan Rehman
15	gauranshu mathur
16	Gaurav Vijayvergiya
17	Gaurav Agarwal
18	hemant patwari
19	Harsh Modi
20	Harshit Gupta

21	Jayesh Singh
22	JOGINDER SINGH
23	pooja jain
24	Kalpana Modi
25	Karan Chauhan
26	Karan aggarwal
27	Kartik saini
28	Yash Khandelwal
29	Khushboo rathore
30	Kapil Raj Tanwar
31	KSHITIJ KUMAWAT
32	Kunal verma
33	nikhil agarwal
34	Mansi jain
35	Naman Joshi
36	naman bachlas
37	Niramay Vyas
38	Nishant Kumar
39	Nishita Tolani
40	Ayush Podar
41	POOJA RATHORE
42	Pranav Parashar
43	pravesh jain
44	Prerna Mehta
45	priti agarwal
46	Radhika Sodhani
47	Rajat Saini
48	Rishabh Garg
49	Rishabh Shrivastava
50	Riya Agarwal

51	Robins Kumar
52	Sagar Alwani
53	Saijal Gulyani
54	Sajal birla
55	Saksham Kalavtia
56	Mayank Saxena
57	Sunidhi Sharma
58	suryapratapsingh
59	Rahul Chandnani
60	harshit verma
61	Vinay vyas
62	Vishal
63	vishnu Sharma
64	Vishwanath Hosmane
65	Vishal prajapat