Course: Microwave Theory and Techniques - Online

Course Code: noc19-ee57

Session: 2019-20

Duration: 12 Weeks

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

Curriculum of the Course:

Week 01: Introduction to Microwaves: History and Applications, Effect of Microwaves on human body

Week 02: Microwave Transmission Modes, Waveguides, Transmission Lines

Week 03: Smith Chart, Impedance Matching, ABCD and S-Parameters

Week 04: Power dividers, Combiners, Couplers

Week 05: Microwave Filters

Week 06: Microwave Diodes and Attenuators, RF Switches, Phase Shifters

Week 07: Microwave Transistors, Amplifiers and LNA

Week 08: Power Amplifiers and Microwave Tubes

Week 09: Microwave Oscillators and Mixers

Week 10: Antennas – Fundamentals, Dipole, Monopole, Arrays, Microstrip, Horn, Helical, Yagi-Uda, Log-Periodic and Reflector Antennas

Week 11: RF MEMS and Microwave Imaging, Microwave Systems, Microwave Measurements and Lab Demonstration

Week 12: Software Session

List of students enrolled

S. No	Name
1	Parul Sinha
2	Chirag Jain
3	Akshit Saxena
4	Aman Sharma
5	Ananya Tiwari
6	Anjali Jain
7	Anjali Parik
8	Anju Choudhary
9	Aparna Maleti
10	Bharat Singh
11	Birendra Kumar Pandey
12	Aniket Chaturvedi
13	Charu Shukla
14	Devang Agrawal
15	Gargi Sharma
16	Ishan Rajvanshi
17	Jatin Bhandari
18	Keshav Hinger
19	Manju Choudhary
20	Mayank Jain
21	Manish Kumar Saini
22	Nikita Modi
23	Monalisa
24	Pratik Prakash
25	Priyansh Dadheech
26	Puneet Mathur
27	Rupam Garg
28	Akshay Sharma
29	Harshit Singhal
30	Ritik Sharma
31	Priyanka Jain