

Course: Introduction to Internet of Things

Course Code: noc20-cs66

Session: 2020-21

Duration: 12 Weeks

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

Curriculum of the Course:

- **Week 1:** Introduction to IoT: Part I, Part II, Sensing, Actuation, Basics of Networking: Part-I
- **Week 2:** Basics of Networking: Part-II, Part III, Part IV, Communication Protocols: Part I, Part II
- **Week 3:** Communication Protocols: Part III, Part IV, Part V, Sensor Networks: Part I, Part II
- **Week 4:** Sensor Networks: Part III, Part IV, Part V, Part VI, Machine-to-Machine Communications
- **Week 5:** Interoperability in IoT, Introduction to Arduino Programming: Part I, Part II, Integration of Sensors and Actuators with Arduino: Part I, Part II
- **Week 6:** Introduction to Python programming, Introduction to Raspberry Pi, Implementation of IoT with Raspberry Pi
- **Week 7:** Implementation of IoT with Raspberry Pi (contd), Introduction to SDN, SDN for IoT
- **Week 8:** SDN for IoT (contd), Data Handling and Analytics, Cloud Computing
- **Week 9:** Cloud Computing(contd), Sensor-Cloud
- **Week 10:** Fog Computing, Smart Cities and Smart Homes
- **Week 11:** Connected Vehicles, Smart Grid, Industrial IoT
- **Week 12:** Industrial IoT (contd), Case Study: Agriculture, Healthcare, Activity Monitoring

List of students enrolled:48

1	Aakriti Sambyal
2	Aarush Goyal
3	Aashish Jain
4	Abhinav Mishra
5	Aditya Garg
6	Akshita Patidar
7	Anshika Khandelwal
8	Ansh Khandelwal
9	Avish Dhirawat
10	Divyansha Jain
11	Dilkhush Sharma
12	Dinesh Kumar Tak
13	Hardik Tyagi
14	Kanika Singhal

15	Lalit Choudhary
16	Manan Jain
17	Manoj Garg
18	Mayank Goyal
19	Naman Joshi
20	Pravesh Jain
21	Rishabh Garg
22	Aman Saini
23	Samarth Narain Sharma
24	Sarthak Sharma
25	Cmaune Sharma
26	Sangeeta Sharma
27	Vipul Gupta
28	Yaman Kumar Malik