Course: Introduction to Internet of Things

Course Code: noc20-cs66

Session: 2019-20

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		15	Lalit Choudhary
2	Aarush Goyal		16	Manan Jain
3	Aashish Jain		17	Manoj Garg
4	Abhinav Mishra		18	Mayank Goyal
5	Aditya Garg		19	Naman Joshi
6	Akshita Patidar		20	Pravesh Jain
7	Anshika Khandelwal		21	Rishabh Garg
8	Ansh Khandelwal		22	Aman Saini
9	Avish Dhirawat		23	Samarth Narain Sharma
10	Divyansha Jain		24	Sarthak Sharma
11	Dilkhush Sharma		25	Cmaune Sharma
12	Dinesh Kumar Tak		26	Sangeeta Sharma
13	Hardik Tyagi		27	Vipul Gupta
14	Kanika Singhal		28	Yaman Kumar Malik