Course: Introduction to Internet of Things

Course Code: noc19-cs65

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:42

1	Aditya Choudhary		11	Eshaan Chauhan
2	Surbhi Agarwal		12	Harsh Modi
3	Aman Jain		13	Hritik Gaur
4	Akshat Jain		14	Ankit Agrawal
5	Anand Samantnani		15	Kalpana Modi
6	Anshul Simlote		16	Kanak Agrawal
7	Anuj Sharma		17	Sachin Sharma
8	Kshitiz Anurag		18	Yash Khandelwal
9	Archit		19	Koustoobh Pareek
10	Simran Arora		20	Anirudh Koolwal

21	Lakshya Dewani	32	Rahul Chandnani
22	Mansi Pareek	33	Rishabh Garg
23	Mayank Agrawal	34	Rohit Jain
24	Mayank Jain	35	Rajeev Sharma
25	Mohit Sharma	36	Yash Saxena
26	Muskaan Joshi	37	Chatrapal Singh Shaktawat
27	Naman Kumar Jain	38	Shubham Udsaria
28	Nishant Kumar	39	Surbhi Sen
29	Parmanand Saraswat	40	Rahul Chandnani
30	Poorvi Jain	41	Tushant Agarwal
31	Rachit Gupta	42	Vibhu Mathur