

# Course: Introduction to Internet of Things

**Course Code:** noc21-cs17

**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

1	Rohit Kalwani
2	Aakarsh Raj
3	Ayushi Chauhan
4	Aastha Gupta
5	Astha Sharma
6	Aman Sharma
7	Amit Singh Rawat
8	Ananya Bisht
9	Anirudh Sharma
10	Anshu Verma
11	Archita Vijay
12	Arihant Jain
13	Arnav Pareek
14	Srishty
15	Aryan Saini
16	Ashutosh Tiwari

17	Ashwani Malav
18	Ayushi Bansal
19	Deepak Bairagi
20	Bhavya Saraswat
21	Roopal Yadav
22	Chirag Mogra
23	Yatharth Choubisa
24	Deepanshi Sharma
25	Dhruva Chhipa
26	Dikshita Samdani
27	Dinesh Geel
28	Saksham Sharma
29	Pulkit Garhwal
30	Gunjan Khandelwal
31	Harshita Mathur
32	Hardik Tyagi

33	Himanshu Gothwal
34	Hritik Gaur
35	Neeraj Jain
36	Kavya Prasannan
37	Kishita Gupta
38	Kusum Sharma
39	Nikhil Agarwal
40	Manvi Asija
41	Mohit Maheshwari
42	Anushka Mukherjee
43	Nensi Jain
44	Nikhil Maheshwari
45	Niramay Vyas
46	Nitin Chittoria
47	Paras Jain
48	Pooja Chaudhary
49	Pragya Kumari
50	Pranav Parashar
51	Prateek Goyal
52	Priya Gocher
53	Priyal Goyal
54	Priyansh Ajmera
55	Pulkit Verma
56	Rachit Jha
57	Rajat Balotia
58	Saurav Ranjan

59	Joshi Ritwick
60	Rohit Agarwal
61	Rahul Varlani
62	Saloni Jain
63	Shruti Dubey
64	Shivam Kumar Gaur
65	Singh Pournima Yogendra
66	Sneha Mathur
67	Suraj Shrivastava
68	Sharma Sharma
69	Suraj Sharma
70	Sudhanshu Sawnani
71	Antima
72	Suryapratapsingh
73	Swati Pancholi
74	Tushar Thavni
75	Poorvaja Verma
76	Ujjwal Garg
77	Hitesh Mishra
78	Vinit Kumar Shah
79	Yash Aditya Wadhwa
80	Yash Saxena
81	Yogesh Saini
82	Punit Sharma
83	Varsha Yadav
84	Zehra Khan