

## Annexure - I

### NPTEL Courses for students of Semesters Four/Six/ Eight, INFORMATION TECHNOLOGY (REVISED COURSE 2019-20) for Jan- June 2022

<https://onlinecourses.nptel.ac.in/>

**\*Only courses having direct 3 credits can be considered for the Semester VIII ,online course code IT 830**

S No	Course Id	Course Name	Duration	Start date	End date	Exam date	Enrollment End date	No of Credits
1	noc22-cs08	Data Analytics with Python	12 Weeks	24-Jan-22	15-Apr-22	23-Apr-22	31-Jan-22	3
2	noc22-cs09	GPU Architectures and Programming	12 Weeks	24-Jan-22	15-Apr-22	24-Apr-22	31-Jan-22	3
3	noc22-cs13	Ethical Hacking	12 Weeks	24-Jan-22	15-Apr-22	23-Apr-22	31-Jan-22	3
4	noc22-cs16	User-centric Computing for Human-Computer Interaction	8 Weeks	24-Jan-22	18-Mar-22	27-Mar-22	31-Jan-22	2
5	noc22-cs21	Introduction to parallel programming with OpenMP and MPI	4 Weeks + 4 Weeks(New)	24-Jan-22	18-Mar-22	27-Mar-22	31-Jan-22	2
6	noc22-cs22	Deep Learning	12 Weeks	24-Jan-22	15-Apr-22	23-Apr-22	31-Jan-22	3
7	noc22-cs23	Information Security - 5 - Secure Systems Engineering	8 Weeks	24-Jan-22	18-Mar-22	27-Mar-22	31-Jan-22	2
8	noc22-cs34	Reinforcement Learning	12 Weeks	24-Jan-22	15-Apr-22	23-Apr-22	31-Jan-22	3

9	noc22-cs35	Deep Learning - IIT Ropar	12 Weeks	24-Jan-22	15-Apr-22	24-Apr-22	31-Jan-22	3
10	noc22-cs37	Online Privacy	12 Weeks	24-Jan-22	15-Apr-22	23-Apr-22	31-Jan-22	3
11	noc22-cs38	Design and Engineering of Computer Systems	8 Weeks	24-Jan-22	18-Mar-22	27-Mar-22	31-Jan-22	2
12	noc22-cs48	Hardware Security	12 Weeks	24-Jan-22	15-Apr-22	24-Apr-22	31-Jan-22	3
13	noc22-cs52	Introduction To Industry 4.0 And Industrial Internet Of Things	12 Weeks	24-Jan-22	15-Apr-22	24-Apr-22	31-Jan-22	3
14	noc22-hs59	Intellectual Property	12 Weeks	Rerun	24-Jan-22	15-Apr-22	24-Apr-22	3
15	noc22-mg54	Ethics In Engineering Practice	8 weeks	Rerun	21-Feb-22	15-Apr-22	23-Apr-22	2
16	noc22-ma31	Scientific Computing using Matlab	12 Weeks	Rerun	24-Jan-22	15-Apr-22	24-Apr-22	3
17	noc22-ge08	Research Methodology	12 Weeks	New	24-Jan-22	15-Apr-22	23-Apr-22	3
18	noc22-mg19	Systems Engineering: Theory & Practice	8 Weeks	Rerun	24-Jan-22	18-Mar-22	27-Mar-22	2