

COMPUTER ENGINEERING

LIST OF ONLINE NPTEL/SWAYAM COURSES FOR FOURTH/SIXTH/EIGHTH SEMESTER (RC 19-20)

FOR THE ACADEMIC YEAR 2022-23 (EVEN SEMESTER)

Sr. No.	Course Id	Course Name (NPTEL Swayam Course)	SME Name	Institute	Duration	Credits	Link to Join
1	noc23-mg33	Principles of Management	Prof. Usha Lenka	IITR	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_mg33/preview
2	noc23-cs12	Model Checking	Prof. Srivathsan.B	IITM	12 weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs12
3	noc23-ge15	Fuzzy Logic and Neural Networks	Prof. Dilip Kumar Pratihar	IITKGP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc23_ge15/preview
4	noc23-cs44	Ethical Hacking	Prof. Indranil Sengupta	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs44
5	noc23-cs25	User-centric Computing for Human-Computer Interaction	Prof. Samit Bhattacharya	IITG	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc23_cs25
6	noc23-cs10	Information Security - 5 - Secure Systems Engineering	Prof. Chester Robeiro	IITM	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc23_cs10
7	noc23-cs32	Systems and Usable Security	Prof. Neminath Hubballi	IIT Indore	4 Weeks	1	https://onlinecourses.nptel.ac.in/noc23_cs32

8	noc23-cs65	Foundation of Cloud IoT Edge ML	Prof. Rajiv Misra	IIITK	8 weeks	2	https://onlinecourses.nptel.ac.in/noc23_cs65/preview
9	noc23-cs59	Hardware Security	Prof. Debdeep Mukhopadhyay	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs59/preview
10	noc23-cs46	Object Oriented System Development Using UML, Java And Patterns	Prof. Rajib Mall	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs46/preview
11	noc23-cs08	Data Analytics with Python	Prof. A. Ramesh	IITR	12 weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs08/preview
12	noc23-cs61	GPU Architectures and Programming	Prof. Soumyajit Dey	IITKGP	12 weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs61/preview
13	noc23-cs47	Blockchain and its Applications	Prof. Sandip Chakraborty Prof. Shamik Sural	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs47/preview
14	noc23-mg49	E-Business	Prof. Mamata Jenamani	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_mg49/preview
15	Noc23-mg41	Ethics in Engineering Practice	Prof. Susmita Mukhopadhyay	IITKGP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc23_mg41/preview
16	noc23-cs03	Foundations of Cryptography	Prof. Ashish Choudhury	IITB	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs03
17	noc23-cs07	Advanced Computer Architecture	Prof. Smruti R.Sarangi	IITD	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs07
18	noc23-cs09	Artificial Intelligence: Knowledge Representation And Reasoning	Prof. Deepak Khemani	IITM	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs09
19	noc23-cs13	Privacy and Security in Online Social Media	Prof. PonnurangamKumaraguru	IIITH	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs13

20	noc23-cs17	Data Science for Engineers	Prof. Rangunathan Rengasamy Prof. Shankar Narasimhan	IITM	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc23_cs17
21	noc23-cs19	Social Networks	Prof. Sudarshan Iyengar	IIT Ropar	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs19
22	noc23-cs20	The Joy of Computing using Python	Prof. Sudarshan Iyengar	IIT Ropar	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs20
23	noc23-cs21	Python for Data Science	Prof. Rangunathan Rengasamy	IITM	4 Weeks	1	https://onlinecourses.nptel.ac.in/noc23_cs21
24	noc23-cs24	Deep Learning - IIT Ropar	Prof. Sudarshan Iyengar	IIT Ropar	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs24
25	noc23-cs27	Cloud Computing and Distributed Systems	Prof. Rajiv Misra	IITP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc23_cs27/preview
26	noc23-cs52	Introduction To Industry 4.0 And Industrial Internet Of Things	Prof. SudipMisra	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc23_cs52
27	noc23-hs10	Soft Skill Development	Prof. Priyadarshi Patnaik Prof. V. N. Giri Prof. D. Suar	IITKGP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc23_hs10
28	noc23-hs15	Introduction On Intellectual Property To Engineers And Technologists	Prof. Tapas Kumar Bandyopadhyay	IITKGP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc23_hs15
29	noc23-hs19	Effective Writing	Prof. Binod Mishra	IITR	4 Weeks	1	https://onlinecourses.nptel.ac.in/noc23_hs19

30	noc23-cs01	Randomized Methods in Complexity	Prof. Nitin Saxena	IITK	12	3	https://onlinecourses.nptel.ac.in/noc23_cs01
31	noc23-cs04	Quantum Algorithms and Cryptography	Prof. Shweta Agrawal	IITM	12	3	https://onlinecourses.nptel.ac.in/noc23_cs04
32	noc23-cs51	Introduction To Internet Of Things	Prof. Sudip Misra	IITKGP	12	3	https://onlinecourses.nptel.ac.in/noc23_cs51
33	noc23-cs45	Natural Language Processing	Prof. Pawan Goyal	IITKGP	12	3	https://onlinecourses.nptel.ac.in/noc23_cs45
34	noc23-cs23	Reinforcement Learning	Prof. Balaraman Ravindran	IITM	12	3	https://onlinecourses.nptel.ac.in/noc23_cs23
35	noc23-cs18	Introduction to Machine Learning	Prof. Balaraman Ravindran	IITM	12	3	https://onlinecourses.nptel.ac.in/noc23_cs18
36	noc23-cs34	Secure Computation: Part I	Prof. Ashish Choudhury	IITB	12	3	https://onlinecourses.nptel.ac.in/noc23_cs34
37	noc23-cs30	Getting Started with Competitive Programming	Prof. Neeldhara Misra	IITG	12	3	https://onlinecourses.nptel.ac.in/noc23_cs30

Note:

1. The credits will be awarded based on scheme proposed above.
2. Students should mandatory undertake one NPTEL/SWAYAM course of only 3 credits from the above list between 5th to 7th semester against 8th-semester course i.e. CE820 Elective –NPTEL/MOOC/SWAYAM.
3. The student shall submit the NPTEL/SWAYAM certificates to Goa University through Heads of Department while applying for the degree.