

COMPUTER ENGINEERINGLIST OF ONLINE NPTEL/SWAYAM COURSES FOR **EVENSEMESTER (RC 19-20)**FOR THE ACADEMIC YEAR 2023-24 (**JANUARY 2024 to APRIL 2024**)**FOR SEMESTER: IV**

Sr. No.	Course Id	Course Name (NPTEL Swayam Course)	SME Name	Institute	Duration	Credits	Link to Join
1	noc24-cs57	The Joy of Computing Using Python	Prof. SudarshanIyengar	IIT Ropar	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs57/preview
2	noc24-cs03	Linear programming and its applications to computer science	Prof. Rajat Mittal	IITK	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_cs03/preview
3	noc24-cs27	Foundations of Cyber Physical Systems	Prof. SoumyajitDey	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs27/preview
4	noc24-cs44	Programming in Modern C++	Prof. ParthaPratim Das	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs44/preview
5	noc24-cs46	Selected Topics in Algorithms	Prof. PalashDey	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs46/preview
6	noc24-cs47	Software Testing	Prof. Rajib Mall	IITKGP	4 Weeks	1	https://onlinecourses.nptel.ac.in/noc24_cs47/preview
7	noc24-cs62	Probability for Computer Science	Prof. NitinSaxena	IITK	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_cs62/preview
8	noc24-ge15	Entrepreneurship Essentials	Prof. Manoj Kumar Mondal	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_ge15/preview
9	noc24-hs07	Introduction On Intellectual Property to Engineers and Technologists	Prof. Tapas Kumar Bandyopadhyay	IITKGP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_hs07/preview

10	noc24-hs09	Speaking Effectively	Prof. Anjali Gera Roy	IITKGP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_hs09/preview
11	noc24-hs23	Effective Writing	Prof. Binod Mishra	IITR	4 Weeks	1	https://onlinecourses.nptel.ac.in/noc24_hs23/preview
12	noc24-ma13	Basic Linear Algebra	Prof. I.K.Rana	IITB	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_ma13/preview
13	noc24-cs28	Fundamental Algorithms: Design And Analysis	Prof. SouravMukhopadhyay	IITKGP	4 Weeks	1	https://onlinecourses.nptel.ac.in/noc24_cs28/preview
14	noc24-cs29	Getting Started with Competitive Programming	Prof. NeeldharaMisra	IIT Gandhi-nagar	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs29/preview

FOR SEMESTER: VI

Sr. No.	Course Id	Course Name (NPTEL Swayam Course)	SME Name	Institute	Duration	Credits	Link to Join
1	noc24-cs01	Foundations of Cryptography	Prof. Ashish Choudhury	IIT Bangalore	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs01/preview
2	noc24-cs05	Basics of Computational Complexity	Prof. NitinSaxena	IITK	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs05/preview
3	noc24-cs09	Computing and Distributed Systems	Prof. Rajiv Misra	IITK	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_cs09/preview
4	noc24-cs14	Artificial Intelligence: Knowledge Representation and Reasoning	Prof. Deepak Khemani	IITM	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs14/preview
5	noc24-cs35	Introduction To Internet of Things	Prof. SudipMisra	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs35/preview
6	noc24-cs24	Embedded System Design with ARM	Prof. IndranilSengupta Prof. KamalikaDatta	IITKGP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_cs24/preview
7	noc24-cs37	Introduction To Soft Computing	Prof. DebasisSamanta	IITKGP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_cs37/preview

8	noc24-cs38	Machine Learning for Engineering and science applications	Prof. Balaji Srinivasan and Prof. Ganapathy	IITM	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs38/preview
9	noc24-cs45	Programming, Data Structures and Algorithms Using Python	Prof. MadhavanMukund	CMI	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_cs45/preview
10	noc24-cs53	Data Science for Engineers	Prof. RangunathanRengasamy Prof. Shankar Narasimhan	IITM	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_cs53/preview
11	noc24-cs54	Python for Data Science	Prof. RangunathanRengasamy	IITM	4 Weeks	1	https://onlinecourses.nptel.ac.in/noc24_cs54/preview
12	noc24-cs56	Social Networks	Prof. SudarshanIyengar Prof. Yayati Gupta	IIT Ropar	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs56/preview
13	noc24-cs63	Parallel Computer Architecture	Prof. Hemangee K. Kapoor	IITG	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs63/preview
14	noc24-cs65	Business Intelligence & Analytics	Prof. Saji K Mathew	IITM	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs65/preview
15	noc24-ge17	Fuzzy Logic and Neural Networks	Prof. Dilip Kumar Pratihari	IITKGP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_ge17/preview
16	noc24-hs15	Soft Skill Development	Prof. PriyadarshiPatnaik Prof. V. N. Giri Prof. D. Suar	IITKGP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_hs15/preview
17	noc24-mg35	Leadership and Team Effectiveness	Prof. Santosh Rangnekar	IITR	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_mg35/preview
18	noc24-ge14	Engineering Statistics	Prof. ManjeshHanawal	IITB	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_ge14/preview

19	noc24-cs11	Advanced Computer Networks	Prof. NeminathHubballi Prof. Sameer Kulkarni	IIT Indore IIT Gandhi nagar	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs11/preview
20	noc24-cs43	Programming In Java	Prof. DebasisSamanta	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs43/preview
21	noc24-hs29	German - I	Prof. MilindBrahme	IITM	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_hs29/preview
22	noc24-hs30	German - II	Prof. MilindBrahme	IITM	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_hs30/preview

FOR SEMESTER: VIII

Sr. No.	Course Id	Course Name (NPTEL Swayam Course)	SME Name	Institute	Duration	Credits	Link to Join
1	noc24-cs04	Privacy and Security in Online social media	Prof. PonnurangamKumara guru	IITH	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs04/preview
2	noc24-cs07	Secure Computation: Part I	Prof. Ashish Choudhury	IIT Bangalore	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs07/preview
3	noc24-cs20	Data Analytics with Python	Prof. A Ramesh	IITR	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs20/preview
4	noc24-cs26	Foundation of Cloud IoT Edge ML	Prof. Rajiv Misra	IITP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_cs26/preview
5	noc24-cs30	GPU Architectures and Programming	Prof. SoumyajitDey	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs30/preview
6	noc24-cs31	Information Security - 5 - Secure Systems Engineering	Prof. Chester Robeiro	IITM	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_cs31/preview

7	noc24-cs39	Natural Language Processing	Prof. PawanGoyal	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs39/preview
8	noc24-cs50	User-centric Computing for Human-Computer Interaction	Prof. Samit Bhattacharya	IITG	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_cs50/preview
9	noc24-cs52	Reinforcement Learning	Prof. BalaramanRavindran	IITM	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs52/preview
10	noc24-cs59	Deep Learning - IIT Ropar	Prof. SudarshanIyengar Prof. SanatanSukhija	IIT Ropar	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs59/preview
11	noc24-cs64	Games and Information	Prof. Ankur A. Kulkarni	IITB	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs64/preview
12	noc24-cs66	Edge Computing	Prof. Rajiv Misra	IITP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_cs66/preview
13	noc24-hs26	Enhancing Soft Skills and Personality	Prof. T. Ravichandran	IITK	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_hs26/preview
14	noc24-hs60	Patent Law for Engineers and Scientists	Prof. Feroz Ali	IITM	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_hs60/preview
15	noc24-mg14	Data Analysis and Decision Making - I	Prof. Raghu NandanSengupta	IITK	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_mg14/preview
16	noc24-mg17	Ethics In Engineering Practice	Prof. SusmitaMukhopadhyay	IITKGP	8 Weeks	2	https://onlinecourses.nptel.ac.in/noc24_mg17/preview
17	noc24-cs15	Blockchain and its Applications	Prof. SandipChakraborty Prof. ShamikSural	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs15/preview
18	noc24-cs34	Introduction To Industry 4.0 And Industrial Internet of Things	Prof. SudipMisra	IITKGP	12 Weeks	3	https://onlinecourses.nptel.ac.in/noc24_cs34/preview

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.