

SWAYAM Courses for July Dec 2020 Semester for Computer Sciences

S.No.	Name of Course	Offered by	Name of Faculty	No. of weeks	URL
	NPTEL				
1	Applied Natural Language Processing	CMI	Prof. Rameseshan R	12	https://www.swayam.gov.in/nd1_noc20_cs87/preview
2	Artificial Intelligence Search Methods for	IIT Madras	Prof. Deepak Khemani	12	https://www.swayam.gov.in/nd1_noc20_cs81/preview
3	Bandit Algorithm (Online Machine Learning)	IIT Bombay	Prof. Manjesh Hanawal	12	https://www.swayam.gov.in/nd1_noc20_mg37/preview
4	Big Data Computing	IIT Patna	Prof. Rajiv Misra	8	https://www.swayam.gov.in/nd1_noc20_cs92/preview
5	C Programming and Assembly Language	IIT Madras	Prof. Janakiraman	4	https://www.swayam.gov.in/nd1_noc20_cs94/preview
6	Cloud computing	IIT Kharagpur	Prof. Soumya Kanti Ghosh	8	https://www.swayam.gov.in/nd1_noc20_cs65/preview
7	Computational Number theory and Algebra	IIT Kanpur	Prof. Nitin Saxena	12	https://www.swayam.gov.in/nd1_noc20_ma42/preview
8	Computer Graphics	IIT Guwahati	Prof. Samit Bhattacharya	8	https://www.swayam.gov.in/nd1_noc20_cs90/preview
9	Computer architecture and organization	IIT Kharagpur	Prof. Indranil Sengupta, Prof. Kamalika Datta	12	https://www.swayam.gov.in/nd1_noc20_cs64/preview
10	Data Base Management System	IIT Kharagpur	Prof. Partha Pratim Das, Prof. Samiran Chattopadhyay	8	https://www.swayam.gov.in/nd1_noc20_cs60/preview

11	Data Science for Engineers	IIT Madras	Prof. Rangunathan Rengasamy, Prof. Shankar Narasimhan	8	https://www.swayam.gov.in/nd1_noc20_cs72/preview
12	Data Structure and algorithms using Java	IIT Kharagpur	Prof. Debasis Samanta	12	https://www.swayam.gov.in/nd1_noc20_cs85/preview
13	Deep Learning	IIT Kharagpur	Prof. Prabir Kumar Biswas	12	https://www.swayam.gov.in/nd1_noc20_cs62/preview
14	Deep Learning for Computer vision	IIT Hyderabad	Prof. Vineeth N Balasubramanian	12	https://www.swayam.gov.in/nd1_noc20_cs88/preview
15	Demystifying Networking	IIT Bombay	Prof. Sridhar Iyer	4	https://www.swayam.gov.in/nd1_noc20_cs86/preview
16	Design and analysis of algorithms	Chennai Mathematica I Institute	Prof. Madhavan Mukund	8	https://www.swayam.gov.in/nd1_noc20_cs71/preview
17	Discrete Mathematics	IIT Ropar, IIT Gandhinagar	Prof. Sudarshan Iyengar, Prof. Neeldhara	12	https://www.swayam.gov.in/nd1_noc20_cs82/preview
18	Google cloud computing foundations	IIT Kharagpur, Google Cloud	Prof. Soumya Kanti Ghosh, Multifaculty	8	https://www.swayam.gov.in/nd1_noc20_cs96/preview
19	Hardware modeling using verilog	IIT Kharagpur	Prof. Indranil Sengupta	8	https://www.swayam.gov.in/nd1_noc20_cs63/preview
20	Image signal processing	IIT Madras	Prof. A.N. Rajagopalan	12	https://www.swayam.gov.in/nd1_noc20_ee83/preview

21	Introduction to Haskell Programming	CMI	Prof. S.P. Suresh	8	https://www.swayam.gov.in/nd1_noc20_cs79/preview
22	Introduction to Industry 4.0 and Industrial Internet of Things	IIT Kharagpur	Prof. Sudip Misra	12	https://www.swayam.gov.in/nd1_noc20_cs69/preview
23	Introduction to Machine Learning	IIT Madras	Prof. Balaraman Ravindran	12	https://www.swayam.gov.in/nd1_noc20_cs73/preview
24	Introduction to Operating Systems	IIT Madras	Prof. Chester Rebeiro	8	https://www.swayam.gov.in/nd1_noc20_cs75/preview
25	Introduction to Programming in C	IIT Kanpur	Prof. Satyadev Nandakumar	8	https://www.swayam.gov.in/nd1_noc20_cs91/preview
26	Introduction to algorithms and analysis	IIT Kharagpur	Prof. Sourav Mukhopadhyay	12	https://www.swayam.gov.in/nd1_noc20_cs93/preview
27	Introduction to Internet of Things	IIT Kharagpur	Prof. Sudip Misra	12	https://www.swayam.gov.in/nd1_noc20_cs66/preview
28	Object oriented analysis and design	IIT Kharagpur	Prof. Partha Pratim Das, Prof. Ansuman Banerjee	8	https://www.swayam.gov.in/nd1_noc20_cs59/preview
29	Object oriented system development using UML, JAVA and Patterns	IIT Kharagpur	Prof. Rajib Mall	12	https://www.swayam.gov.in/nd1_noc20_cs84/preview
30	Practical Machine Learning with Tensorflow	Google, IIT Madras	Prof. Ashish Tendulkar, Prof. Balaraman Ravindran	8	https://www.swayam.gov.in/nd1_noc20_cs95/preview

31	Problem solving through programming in C	IIT Kharagpur	Prof. Anupam Basu	12	https://www.swayam.gov.in/nd1_noc20_cs56/preview
32	Programming in C++	IIT Kharagpur	Prof. Partha Pratim Das	8	https://www.swayam.gov.in/nd1_noc20_cs57/preview
33	Programming in Java	IIT Kharagpur	Prof. Debasis Samanta	12	https://www.swayam.gov.in/nd1_noc20_cs58/preview
34	Programming, Data structures and algorithms using	Chennai Mathematical Institute	Prof. Madhavan Mukund	8	https://www.swayam.gov.in/nd1_noc20_cs70/preview
35	Python for Data Science	IIT Madras	Prof. Rangunathan Rengasamy	4	https://www.swayam.gov.in/nd1_noc20_cs80/preview
36	Reinforcement Learning	IIT Madras	Prof. Balaram Ravindran	12	https://www.swayam.gov.in/nd1_noc20_cs74/preview
37	Scalable Data Science	IIT Gandhinagar	Prof. Anirban Dasgupta, Prof. Sourangshu Bhattacharya	8	https://www.swayam.gov.in/nd1_noc20_cs61/preview
38	Social Networks	IIT Ropar	Prof. Sudarshan Iyengar	12	https://www.swayam.gov.in/nd1_noc20_cs78/preview
39	Software Engineering	IIT Kharagpur	Prof. Rajib Mall	12	https://www.swayam.gov.in/nd1_noc20_cs68/preview
40	Software Testing	IIIT Bangalore	Prof. Meenakshi D'souza	12	https://www.swayam.gov.in/nd1_noc20_cs77/preview
41	Switching Circuits and Logic Design	IIT Kharagpur	Prof. Indranil Sengupta	12	https://www.swayam.gov.in/nd1_noc20_cs67/preview

42	The Joy of Computing using Python	IIT Ropar	Prof. Sudarshan Iyengar, Prof. Yayati Gupta	12	https://www.swayam.gov.in/nd1_noc20_cs83/preview
AICTE					
1	Arduino	IIT Bombay	Prof. Kannan Moudgalya	8	https://www.swayam.gov.in/nd2_aic20_sp04/preview
2	Linux AWK	IIT Bombay	Prof. Kannan Moudgalya	6	https://www.swayam.gov.in/nd2_aic20_sp25/preview
3	Linux BASH (Shell scripting)	IIT Bombay	Prof. Kannan Moudgalya	12	https://www.swayam.gov.in/nd2_aic20_sp05/preview
4	Linux Operating System	IIT Bombay	Prof. Kannan Moudgalya	12	https://www.swayam.gov.in/nd2_aic20_sp24/preview
5	Linux for Sys-Ads	IIT Bombay	Prof. Kannan Moudgalya	4	https://www.swayam.gov.in/nd2_aic20_sp26/preview
CEC					
1	Animations	BHU	Dr. Abhishek Kumar	15	https://www.swayam.gov.in/nd2_cec20_cs13/preview
2	Computer Fundamentals	Devi Ahilya Viswavidyalaya	Prof. Sanjay Tanwani	12	https://www.swayam.gov.in/nd2_cec20_cs11/preview
3	Cyber security	Avinashlingam Institute of Home Science	Dr. G. Padmavathi	15	https://www.swayam.gov.in/nd2_cec20_cs15/preview

4	Data Mining	St. John's College	Mr. L. Abraham David	12	https://www.swayam.gov.in/nd2_cec20_cs12/preview
5	E-commerce Technologies	Grace Technology Solutions	G. Selva Jeba	12	https://www.swayam.gov.in/nd2_cec20_mg25/preview
6	Introduction to Computer Networks and Internet Protocols	GLS University	Prof. Bhushan Trivedi	15	https://www.swayam.gov.in/nd2_cec20_cs16/preview
IGNOU					
1	Building cost estimation simlified	IGNOU	Prof. Shruti Samuel	8	https://www.swayam.gov.in/nd2_nou20_cs11/preview
2	Fundamentals of Computer systems	IGNOU	Shri. Mangala Prasad Mishra	12	https://www.swayam.gov.in/nd2_nou20_cs03/preview
3	Introduction to Information Technology	IGNOU	Shri. Akshhay Kumar	12	https://www.swayam.gov.in/nd2_nou20_cs04/preview
4	Web based technologies and multimedia applications	IGNOU	Prof. P.V. Suresh	12	https://www.swayam.gov.in/nd2_nou20_cs05/preview
5	Computer Aided Design/ Computer Aided Manufacturing	IGNOU	Dr. K. Tamil Mannan	6	https://www.swayam.gov.in/nd2_nou20_cs15/preview
6	Concrete Technology	IGNOU	Dr. Munish Kumar Bhardwaj	Self Paced	https://www.swayam.gov.in/nd2_nou20_cs14/preview
7	Electricity & Safety Measures	IGNOU	Dr. Rakhi Sharma	12	https://www.swayam.gov.in/nd2_nou20_cs08/preview

8	Energy Resources and conversion processes	IGNOU	Dr. Shweta Tripathi	Self Paced	https://www.swayam.gov.in/nd2_nou20_cs09/preview
9	Introduction to Cyber Security	IGNOU	Dr. Jeetendra Pande	12	https://www.swayam.gov.in/nd2_nou20_cs02/preview
10	Material Science	IGNOU	Dr. Shashank Srivastava	Self Paced	https://www.swayam.gov.in/nd2_nou20_cs16/preview
11	Pollutants and Water Supply	IGNOU	Dr. Anuj Kumar Purwar	16	https://www.swayam.gov.in/nd2_nou20_cs13/preview
12	Principles of Electrical Sciences	IGNOU	Dr. Sanjay Agrawal	Self Paced	https://www.swayam.gov.in/nd2_nou20_cs10/preview
13	Production Management	IGNOU	Dr. Ashish Agarwal	Self Paced	https://www.swayam.gov.in/nd2_nou20_cs07/preview
14	Quality Engineering & Management	IGNOU	Dr. N. Venkateshwarlu	12	https://www.swayam.gov.in/nd2_nou20_cs12/preview
15	Thermodynamics and its application	IGNOU	Prof. Subhasis Maji	12	https://www.swayam.gov.in/nd2_nou20_cs06/preview