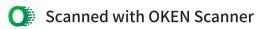
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SI.	No Name of the Course	Available on Category (Major/Minor		Name of the	DUDATION	NO OF
		the Platform	Category (Major/Minor //MDC/VAC/AEC/SEC)	programme	DURATION	NO. OF CREDITS
			midel (MelMbelbbe)	to be opted for		CREDITS
1	Software Enginering	Yes	Major/Minor/MDC	FYUGP	12 Weeks	4
2	Data Mining	Yes	Major/Minor/MDC	FYUGP	12 Weeks	4
3	Computer Applications in Business	Yes	Major/Minor/MDC	FYUGP	16 Weeks	5
4	Information Security	Yes	Major/Minor/MDC	FYUGP	12 Weeks	4
5	Introduction to Data Structures	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
6	Introductory Concepts of Digital Computing	Yes	Major/Minor/MDC	FYUGP	12 Weeks	4
7	Software Conceptual Design	Yes	AEC/SEC/VAC	FYUGP	4 Weeks	1
8	Computer Architecture	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
9	Cloud Infrastructure and Services	Yes	AEC/SEC/VAC	FYUGP		4
10	MCS-211: Design and Analysis of Algorithms	Yes	AEC/SEC/VAC	FYUGP	5 Weeks	4
M	MCS-226: Data Science and Big Data	Yes	Major/Minor/MDC	FYUGP	12 Weeks	4
12	Database Management System	Yes	AEC/SEC/VAC	FYUGP	12 weeks	4
13	Data Science Using Python	Yes	AEC/SEC/VAC	FYUGP	12 weeks	4
14	Introduction to Algebraic Graph Theory	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
15	Distributed Optimization and Machine Learning	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
<i>y</i> 6	Social Network Analysis	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
	Data Science for Engineers	. Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
18	Social Networks	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
19	The Joy of Computing using Python	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
20	Python for Data Science	Yes	AEC/SEC/VAC	FYUGP	4 Weeks	1
21	Deep Learning - IIT Ropar	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
22	Cloud Computing	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
23	Software Engineering	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
24	Software Project Managemen	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
25	Programming In Java	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
26	Human Computer Interaction (In Hindi)	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
27	Software Testing	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	- 3
28	C Programming and Assembly Language	Yes	AEC/SEC/VAC	FYUGP	4 Weeks	1
29	Cyber Security and Privacy	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
30	Privacy and Security in Online Social Media	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
31	Responsible & Safe AI Systems	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
32	Introduction to programming in C	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
33	Practical Cyber Security for Cyber Security Practitioners	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
34	Computational Arithmetic - Geometry for Algebraic Curves	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
35	Introduction to Graph Algorithms	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
36	Demystifying Networking	Yes	AEC/SEC/VAC	FYUGP	4 Weeks	1
37	Introduction to Computer and Network Performance Analysis	Yes	AEC/SEC/VAC	FYUGP	4 Weeks	1



38	3	Big Data Computing	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
39	9	Computer Graphics	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
40)	Multi-Core Computer Architecture	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
41	L	Design & Implementation of Human-Computer Interfaces	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
42	2	Mathematical Foundations for Machine Learning	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
43	3	Programming With Generative Al	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
44	1	Foundations and Applications of Machine Learning (Bengali)	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
45	5	Problem Solving Through Programming in C	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
46	5	Computer Vision	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
47	7	Programming in Modern C++	Yes	AEC/SEC/VAC			3
48	3	Data Base Management System	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	2
49)	Data Structure and Algorithms using Java	Yes		FYUGP	8 Weeks	3
50)	Introduction To Machine Learning - IITKGP	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	
51		Introduction To Algorithms and Analysis	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
52	X	Algorithmic Game Theory		AEC/SEC/VAC	FYUGP	12 Weeks	3
53		Artificial Intelligence for Economics	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
54		Approximation Algorithm	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
55		Computer Architecture And Organization	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
56		Hardware Modeling Using Verilog	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
57		Machine Learning For Earth System Sciences	Yes	AEC/SEC/VAC	FYUGP	8 weeks	2
58		Second Level Algorithms	Yes	AEC/SEC/VAC	FYUGP	8 weeks	2
59		Artificial Intelligence : Concepts and Techniques	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
60		Scalable Data Science	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
61		Mobile Virtual Reality and Artificial Intelligence	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
62		Data Structures and Algorithms Design	Yes	AEC/SEC/VAC	FYUGP	4 Weeks	1
63			Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
64		Artificial Intelligence : Search Methods For Problem solving	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
65		Programming, Data Structures And Algorithms Using Python	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
	_	Design and analysis of algorithms	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
66		Introduction to Machine Learning	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
67		Deep Learning for Computer Vision	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
68		Introduction to Quantum Computing: Quantum Algorithms a	Yes	AEC/SEC/VAC	FYUGP	4 Weeks	1
69		Parameterized Algorithms	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
70	_	Getting Started with Competitive Programming	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
71		Applied Accelerated Artificial Intelligence	Yes	AEC/SEC/VAC	FYUGP	12 Weeks	3
72		Introduction to Machine Learning (Tamil)	Yes	AEC/SEC/VAC	FYUGP	8 Weeks	2
73	_	Artificial Intelligence using Prolog Programming	Yes	Major/Minor/MDC	FYUGP	12 Weeks	4
74	_	CIT-001: Fundamentals of Computer Systems	Yes	Major/Minor/MDC	FYUGP	12 Weeks	4
75	_	CIT-002: Introduction to Information Technology	Yes	Major/Minor/MDC	FYUGP	12 Weeks	4
76		CIT-003: Web Based Technologies and Multimedia Applicatio	Yes	Major/Minor/MDC	FYUGP	12 Weeks	4

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Yes

AEC/SEC/VAC

FYUGP



12 Weeks