

36	Biointerface Engineering	8 Weeks	2	https://online.vtu.ac.in/course-details/Biointerface-Engineering
37	Demystifying The Brain	4 Weeks	1	https://online.vtu.ac.in/course-details/Demystifying-The-Brain

COMPUTER SCIENCE ENGINEERING COURSES

Eligible Branches to take the Courses

Artificial Intelligence & Data Science/ Artificial Intelligence and Machine Learning/ Computer & Communication Engineering/ Computer Science & Business System/ Computer Science & Design/ Computer Science & Engineering (IoT)/ CSE (Artificial Intelligence)/ CSE (Cyber Security)/ CSE (Data Science)/ CSE (IoT & Cyber Security including Block Chain Technology)/ Data Science/ Information Science & Engineering/ Computer Science and Engineering.

Sl. No	Course Name	Weeks	Credits	Course Link
1	Advanced Computer Networks	12 Weeks	3	https://online.vtu.ac.in/course-details/advanced-computer-networks
2	Circuit Complexity Theory	12 Weeks	3	https://online.vtu.ac.in/course-details/circuit-complexity-theory
3	Computational Number Theory and Algebra	12 Weeks	3	https://online.vtu.ac.in/course-details/computational-number-theory-and-algebra
4	Parallel Computer Architecture	12 Weeks	3	https://online.vtu.ac.in/course-details/parallel-computer-architecture

5	Quantum Algorithms and Cryptography	12 Weeks	3	https://online.vtu.ac.in/course-details/quantum-algorithms-and-cryptography
6	Switching Circuits and Logic Design	12 Weeks	3	https://online.vtu.ac.in/course-details/switching-circuits-and-logic-design
7	Affective Computing	12 Weeks	3	https://online.vtu.ac.in/course-details/Affective-Computing
8	Foundations of Cyber Physical Systems	12 Weeks	3	https://online.vtu.ac.in/course-details/Foundations-of-Cyber-Physical-Systems
9	GPU Architectures and Programming	12 Weeks	3	https://online.vtu.ac.in/course-details/GPU-Architectures-And-Programming
10	Reinforcement Learning	12 Weeks	3	https://online.vtu.ac.in/course-details/Reinforcement-Learning
11	Secure Computation: Part I	12 Weeks	3	https://online.vtu.ac.in/course-details/Secure-Computation-Part-I
12	Social Networks	12 Weeks	3	https://online.vtu.ac.in/course-details/Social-Networks
13	Introduction To Industry 4.0 And Industrial Internet Of Things	12 Weeks	3	https://online.vtu.ac.in/course-details/Introduction-To-Industry-40-And-Industrial-Internet-Of-Things
14	Reinforcement Learning	12 Weeks	3	https://online.vtu.ac.in/coursedetails/Reinforcement-Learning
15	Parameterized Algorithms	12 Weeks	3	https://online.vtu.ac.in/coursedetails/parameterized-algorithms
16	Applied Accelerated Artificial Intelligence	12 Weeks	3	https://online.vtu.ac.in/coursedetails/Applied-Accelerated-Artificial-Intelligence
17	Social Networks	12 Weeks	3	https://online.vtu.ac.in/coursedetails/Social-Networks
18	Computational Complexity	12 Weeks	3	https://online.vtu.ac.in/coursedetails/computational-complexity

19	Introduction To Game Theory And Mechanism Design	12 Weeks	3	https://online.vtu.ac.in/coursedetails/Introduction-To-GameTheory-And- Mechanism-Design
20	Advanced Distributed Systems	12 Weeks	3	https://online.vtu.ac.in/coursedetails/advanced-distributed-systems
21	Privacy And Security In Online Social Media	12 Weeks	3	https://online.vtu.ac.in/coursedetails/Privacy-and-Security-inOnline-Social-Media
22	Ethical Hacking	12 Weeks	3	https://online.vtu.ac.in/coursedetails/Ethical-Hacking
23	Introduction To Haskell Programming	8 Weeks	2	https://online.vtu.ac.in/course-details/Introduction-To-Haskell-Programming
24	Data Science For Engineers	8 Weeks	2	https://online.vtu.ac.in/course-details/Data-Science-for-Engineers-815403
25	Google Cloud Computing Foundations	8 Weeks	2	https://online.vtu.ac.in/course-details/Google-Cloud-Computing-Foundations
26	Edge Computing	8 Weeks	2	https://online.vtu.ac.in/course-details/edge-computing
27	Embedded System Design with ARM	8 Weeks	2	https://online.vtu.ac.in/course-details/embedded-system-design-with-arm
28	Optimisation for Machine Learning: Theory and Implementation(Hindi)	8 Weeks	2	https://online.vtu.ac.in/course-details/optimisation-for-machine-learning-theory-and-implementation-hindi
29	User-centric Computing For Human-Computer Interaction	8 Weeks	2	https://online.vtu.ac.in/course-details/user-centric-computing-for-human-computer-interaction
30	AI: Constraint Satisfaction	8 Weeks	2	https://online.vtu.ac.in/course-details/AI-Constraint-Satisfaction-836131
31	Introduction To Soft Computing	8 Weeks	2	https://online.vtu.ac.in/course-details/Introduction-To-Soft-Computing

32	Foundation of Cloud IoT Edge ML	8 Weeks	2	https://online.vtu.ac.in/course-details/Foundation-of-Cloud-IOT-Edge-ML-487203
33	Hardware Modeling Using Verilog	8 Weeks	2	https://online.vtu.ac.in/coursedetails/Hardware-Modeling-UsingVerilog
34	Machine Learning For Earth System Sciences	8 Weeks	2	https://online.vtu.ac.in/coursedetails/Machine-Learning-For-EarthSystem-Sciences
35	Hardware Modeling Using Verilog	8 Weeks	2	https://online.vtu.ac.in/coursedetails/Hardware-Modeling-UsingVerilog
36	Machine Learning For Earth System Sciences	8 Weeks	2	https://online.vtu.ac.in/coursedetails/Machine-Learning-For-EarthSystem-Sciences
37	Software Testing (IITKGP)	4 Weeks	1	https://online.vtu.ac.in/course-details/Software-Testing-IITKGP
38	Systems and Usable Security	4 Weeks	1	https://online.vtu.ac.in/course-details/systems-and-usable-security-979026