

PG Courses

Computer Science & Engineering Stream

Sl.No.	Discipline	Course Name	Duration	Course Link	Credits
1	Computer Science and Engineering	Reinforcement Learning	12 Weeks	https://online.vtu.ac.in/course-details/Reinforcement-Learning	3
2	Computer Science and Engineering	Parameterized Algorithms	12 Weeks	https://online.vtu.ac.in/course-details/parameterized-algorithms	3
3	Computer Science and Engineering	Applied Accelerated Artificial Intelligence	12 Weeks	https://online.vtu.ac.in/course-details/Applied-Accelerated-Artificial-Intelligence	3
4	Computer Science and Engineering	Social Networks	12 Weeks	https://online.vtu.ac.in/course-details/Social-Networks	3
5	Computer Science and Engineering	Computational Complexity	12 Weeks	https://online.vtu.ac.in/course-details/computational-complexity	3
6	Computer Science and Engineering	Introduction To Game Theory And Mechanism Design	12 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Game-Theory-And- Mechanism-Design	3
7	Computer Science and Engineering	Discrete Mathematics - IIITB	12 Weeks	https://online.vtu.ac.in/course-details/discrete-mathematics-iiitb	3
8	Computer Science and Engineering	Advanced Distributed Systems	12 Weeks	https://online.vtu.ac.in/course-details/advanced-distributed-systems	3
9	Computer Science and Engineering	Privacy And Security In Online Social Media	12 Weeks	https://online.vtu.ac.in/course-details/Privacy-and-Security-in-Online-Social-Media	3
10	Computer Science and Engineering	Distributed Systems	8 Weeks	https://online.vtu.ac.in/course-details/distributed-systems-480668	2
11	Computer Science and Engineering	Ethical Hacking	12 Weeks	https://online.vtu.ac.in/course-details/Ethical-Hacking	3
12	Computer Science and Engineering	Hardware Modeling Using Verilog	8 Weeks	https://online.vtu.ac.in/course-details/Hardware-Modeling-Using-Verilog	2
13	Computer Science and Engineering	Data Structure And Algorithms Using Java	12 Weeks	https://online.vtu.ac.in/course-details/data-structure-and-algorithms-using-java	3
14	Computer Science and Engineering	Machine Learning For Earth System Sciences	8 Weeks	https://online.vtu.ac.in/course-details/Machine-Learning-For-Earth-System- Sciences	2

Civil Engineering Sciences

Sl.No.	Discipline	Course Name	Duration	Course Link	Credits

1	Civil Engineering	Geosynthetics And Reinforced Soil Structures	12 Weeks	https://online.vtu.ac.in/course-details/geosynthetics-and-reinforced-soil-structures	3
2	Civil Engineering	Ground Improvement	12 Weeks	https://online.vtu.ac.in/course-details/Ground-Improvement	3
3	Civil Engineering	Pavement Materials (Under Pavement Engineering)	12 weeks	https://online.vtu.ac.in/course-details/pavement-materials-under-pavement-engineering	3
4	Civil Engineering	Integrated Waste Management For A Smart City	12 Weeks	https://online.vtu.ac.in/course-details/integrated-waste-management-for-a-smart-city	3
5	Civil Engineering	Sustainable Engineering Concepts And Life Cycle Analysis	8 Weeks	https://online.vtu.ac.in/course-details/Sustainable-Engineering-Concepts-And-Life-Cycle-Analysis	2
6	Civil Engineering	Subsurface Exploration : Importance And Techniques Involved	8 Weeks	https://online.vtu.ac.in/course-details/subsurface-exploration-importance-and-techniques-involved	2
7	Civil Engineering	Integrated Waste Management for a smart city	12 weeks	https://online.vtu.ac.in/course-details/integrated-waste-management-for-a-smart-city	3
7	Civil Engineering	Environmental Geomechanics	12 Weeks	https://online.vtu.ac.in/course-details/Environmental-Geomechanics	3
9	Civil Engineering	Earthquake Resistant Design of Foundations	8 Weeks	https://online.vtu.ac.in/course-details/Earthquake-Resistant-Design-of-Foundations	2
10	Civil Engineering	Plastic Waste Management	8 Weeks	https://online.vtu.ac.in/course-details/Plastic-Waste-Management	2
11	Civil Engineering	Analysis and Design of Bituminous Pavements	12 Weeks	https://online.vtu.ac.in/course-details/analysis-and-design-of-bituminous-pavements	3
12	Civil Engineering	Industrial Wastewater Treatment	12 weeks	https://online.vtu.ac.in/course-details/Industrial-Wastewater-Treatment	3

Mechanical Enginnering

Sl.No.	Discipline	Course Name	Duration	Course Link	Credits
1	Mechanical Engineering	Advanced Thermodynamics And Combustion	12 Weeks	https://online.vtu.ac.in/course-details/advanced-thermodynamics-and-combustion	3
2	Mechanical Engineering	Advanced Dynamics	12 Weeks	https://online.vtu.ac.in/course-details/advanced-dynamics	3
3	Mechanical Engineering	Mechanism And Robot Kinematics	8 Weeks	https://online.vtu.ac.in/course-details/Mechanism-And-Robot-Kinematics	2
4	Mechanical Engineering	Power Plant Engineering	8 Weeks	https://online.vtu.ac.in/course-details/Power-Plant-Engineering	2
5	Mechanical Engineering	Nonlinear Adaptive Control	12 Weeks	https://online.vtu.ac.in/course-details/nonlinear-adaptive-control	3

6	Mechanical Engineering	Mechanics And Control Of Robotic Manipulators	8 Weeks	https://online.vtu.ac.in/course-details/mechanics-and-control-of-robotic-manipulators	2
7	Mechanical Engineering	Dynamic Behaviour Of Materials	12 Weeks	https://online.vtu.ac.in/course-details/Dynamic-Behaviour-Of-Materials	3
8	Mechanical Engineering	Metal Additive Manufacturing	12 Weeks	https://online.vtu.ac.in/course-details/Metal-Additive-Manufacturing	3
9	Mechanical Engineering	Advanced Machining Processes	8 Weeks	https://online.vtu.ac.in/course-details/Advanced-Machining-Processes	2
10	Metallurgical and Materials Engineering	X-Ray Crystallography & Diffraction	12 Weeks	https://online.vtu.ac.in/course-details/x-ray-crystallography-diffraction	3
11	Metallurgical and Materials Engineering	Electronic Properties Of The Materials: Computational Approach	8 Weeks	https://online.vtu.ac.in/course-details/Electronic-Properties-Of-The-Materials-Computational-Approach	2
12	Metallurgical and Materials Engineering	Surface Mining Technology	12 Weeks	https://online.vtu.ac.in/course-details/surface-mining-technology	3
13	Mechanical Engineering Metallurgical and Materials	Experimental Stress Analysis	12 Weeks	https://online.vtu.ac.in/course-details/Experimental-Stress-Analysis	3
14	Mechanical Engineering Metallurgical and Materials	Manufacturing Guidelines For Product Design	8 Weeks	https://online.vtu.ac.in/course-details/Manufacturing-Guidelines-For-Product-Design-872170	2
15	Mechanical Engineering Metallurgical and Materials	Explosions and Safety	12 Weeks	https://online.vtu.ac.in/course-details/Explosions-and-Safety	3
16	Mechanical Engineering Metallurgical and Materials	Theory Of Composite Shells	8 Weeks	https://online.vtu.ac.in/course-details/Theory-of-Composite-Shells-230535	2

Architecture and Planning

Sl.No.	Discipline	Course Name	Duration	Course Link	Credits
1	Architecture and Planning	Urban Utilities Planning : Water Supply, Sanitation And Drainage	12 Weeks	https://online.vtu.ac.in/course-details/urban-utilities-planning-water-supply-sanitation-and-drainage	3
2	Architecture and Planning	Architectural Conservation And Historic Preservation	8 Weeks	https://online.vtu.ac.in/course-details/architectural-conservation-and-historic-preservation	2
3	Architecture and Planning	Urban Landuse And Transportation Planning	12 Weeks	https://online.vtu.ac.in/course-details/urban-landuse-and-transportation-planning	3
4	Architecture and Planning	Introduction To Urban Planning	8 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Urban-Planning	2
5	Architecture and Planning	Role Of Craft And Technology In Interior - Architecture	8 Weeks	https://online.vtu.ac.in/course-details/role-of-craft-and-technology-in-interior-architecture	2

6	Architecture and Planning	Housing Policy & Planning	8 Weeks	https://online.vtu.ac.in/course-details/housing-policy-planning	2
7	Architecture and Planning	Urban governance and Development Management (UGDM)	12 Weeks	https://online.vtu.ac.in/course-details/urban-governance-and-development-management-ugdm	3
8	Architecture and Planning	Contemporary Architecture And Design	8 Weeks	https://online.vtu.ac.in/course-details/Contemporary-Architecture-And-Design	2
9	Humanities and Social Sciences	Environment And Development	12 Weeks	https://online.vtu.ac.in/course-details/Environment-And-Development	3
11	Architecture and Planning	Contemporary Architecture And Design	8 Weeks	https://online.vtu.ac.in/course-details/Contemporary-Architecture-And-Design	2
10	Architecture and Planning	Urban Services Planning	12 Weeks	https://online.vtu.ac.in/course-details/urban-services-planning-942273	3

AEROSPACE ENGINEERING

Sl.No.	Discipline	Course Name	Duration	Course Link	Credits
1	Aerospace Engineering	Introduction To Airplane Performance	8 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Airplane-Performance	2
2	Aerospace engineering	Introduction To Airbreathing Propulsion	12 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Airbreathing-Propulsion	3
3	Aerospace Engineering	Design Of Fixed Wing Unmanned Aerial Vehicles	8 Weeks	https://online.vtu.ac.in/course-details/Design-Of-Fixed-Wing-Unmanned-Aerial-Vehicles	2
4	Aerospace Engineering	Aerodynamic Design Of Axial Flow Compressors & Fans	12 Weeks	https://online.vtu.ac.in/course-details/Aerodynamic-Design-Of-Axial-Flow-Compressors-Fans	3

Textile Engineering

Sl.No.	Discipline	Course Name	Duration	Course Link	Credits
1	Textile Engineering	Principles Of Combing,Roving Preparation & Ring Spinning	12 Weeks	https://online.vtu.ac.in/course-details/principles-of-combing-roving-preparation-ring-spinning	3
2	Textile Engineering	Yarn Manufacture I : Principle Of Opening, Carding And Drawing	12 Weeks	https://online.vtu.ac.in/course-details/yarn-manufacture-i-principle-of-opening-carding-and-drawing	3
3	Textile Engineering	Technical Textiles	12 Weeks	https://online.vtu.ac.in/course-details/Technical-Textiles	3
4	Textile Engineering	Science Of Clothing Comfort	12 Weeks	https://online.vtu.ac.in/course-details/science-of-clothing-comfort	3

5	Textile Engineering	Textile Finishing	12 Weeks	https://online.vtu.ac.in/course-details/textile-finishing	3
6	Textile Engineering	Science And Technology Of Weft And Warp Knitting	12 Weeks	https://online.vtu.ac.in/course-details/science-and-technology-of-weft-and-warp-knitting	3
7	Textile Engineering	Advanced Textile Printing Technology	8 Weeks	https://online.vtu.ac.in/course-details/advanced-textile-printing-technology-933620	2
8	Textile Engineering	Testing of Functional and Technical Textiles	8 Weeks	https://online.vtu.ac.in/course-details/testing-of-functional-and-technical-textiles	2
9	Textile Engineering	Textile Product Design and Development	12 Weeks	https://online.vtu.ac.in/course-details/textile-product-design-and-development	3
10	Textile Engineering	Textured Yarn Technology	12 Weeks	https://online.vtu.ac.in/course-details/Textured-Yarn-Technology	3

Design Engineering

Sl.No.	Discipline	Course Name	Duration	Course Link	Credits
1	Design Engineering	Understanding Incubation And Entrepreneurship	12 Weeks	https://online.vtu.ac.in/course-details/Understanding-Incubation-and-Entrepreneurship-839780	3
2	Design Engineering	Fundamentals of Automotive Systems	12 Weeks	https://online.vtu.ac.in/course-details/fundamentals-of-automotive-systems	3
3	Design Engineering	Geographic Information System	12 Weeks	https://online.vtu.ac.in/course-details/geographic-information-system	3

Management

Sl.No.	Discipline	Course Name	Duration	Course Link	Credits
1	Management	Management Accounting	12 Weeks	https://online.vtu.ac.in/course-details/management-accounting	3
2	Management	Manufacturing Strategy	8 Weeks	https://online.vtu.ac.in/course-details/manufacturing-strategy	2
3	Management	Security Analysis & Portfolio Management	12 weeks	https://online.vtu.ac.in/course-details/Security-Analysis-Portfolio-Management	3
4	Management	Intellectual Property Rights And Competition Law	8 Weeks	https://online.vtu.ac.in/course-details/Intellectual-Property-Rights-and-Competition-Law	2
5	Management	Entrepreneurship	12 Weeks	https://online.vtu.ac.in/course-details/Entrepreneurship	3

6	Management	Financial Accounting	8 Weeks	https://online.vtu.ac.in/course-details/Financial-Accounting	2
7	Management	Organization Development And Change In 21st Century	8 Weeks	https://online.vtu.ac.in/course-details/Organization-Development-And-Change-In-21st-Century	2
8	Management	Strategic Management – The Competitive Edge	8 Weeks	https://online.vtu.ac.in/course-details/strategic-management-the-competitive-edge	2
9	Management	Automation In Production Systems And Management	12 Weeks	https://online.vtu.ac.in/course-details/Automation-in-Production-Systems-and-Management	3
10	Management	Patent Search For Engineers And Lawyers	8 Weeks	https://online.vtu.ac.in/course-details/patent-search-for-engineers-and-lawyers	2

General

Sl.No.	Discipline	Course Name	Duration	CourseLink	Credits
1	Aerospace engineering	Introduction To Aircraft Design	12 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Aircraft-Design	3
2	Agriculture Engineering	Organic Farming For Sustainable Agricultural Production	8 Weeks	https://online.vtu.ac.in/course-details/organic-farming-for-sustainable-agricultural-production	2
3	Architecture and Planning	Introduction To Urban Planning	8 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Urban-Planning	2
4	Biotechnology and Bioengineering	Genetic Engineering: Theory And Application	12 Weeks	https://online.vtu.ac.in/course-details/Genetic-Engineering-Theory-and-Application	3
5	Biotechnology and Bioengineering	Cellular Biophysics: A Framework For Quantitative Biology	8 Weeks	https://online.vtu.ac.in/course-details/Cellular-Biophysics-A-Framework-For-Quantitative-Biology	2
6	Computer Science and Engineering	Computational Complexity	12 Weeks	https://online.vtu.ac.in/course-details/computational-complexity	3
7	Computer Science and Engineering	Introduction To Game Theory And Mechanism Design	12 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Game-Theory-And-Mechanism-Design	3
8	Chemistry and Biochemistry	NMR Spectroscopy For Chemists And Biologists	12 Weeks	https://online.vtu.ac.in/course-details/NMR-Spectroscopy-For-Chemists-And-Biologists	3
9	Electrical and Electronics Engineering	Introduction To Wireless And Cellular Communications	12 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Wireless-And-Cellular-Communications	3
10	Health sciences	Basics of Health Promotion and Education Intervention	8 Weeks	https://online.vtu.ac.in/course-details/BASICS-OF-HEALTH-PROMOTION-AND-EDUCATION-INTERVENTION	2
11	Multidisciplinary	Fundamentals Of Artificial Intelligence	12 Weeks	https://online.vtu.ac.in/course-details/Fundamentals-Of-Artificial-Intelligence	3
12	Multidisciplinary	Bandit Algorithm (Online Machine Learning)	12 Weeks	https://online.vtu.ac.in/course-details/Bandit-Algorithm-Online-Machine-Learning	3

13	Management	Working Capital Management	12 Weeks	https://online.vtu.ac.in/course-details/working-capital-management	3
14	Management	Econometric Modelling	8 Weeks	https://online.vtu.ac.in/course-details/econometric-modelling	2
15	Management	Services Marketing : Integrating People, Technology, Strategy	8 Weeks	https://online.vtu.ac.in/course-details/services-marketing-integrating-people-technology-	2

Electrical and Electronics Engineering

Sl.No.	Discipline	Course Name	Duration	CourseLink	Credits
1	Electrical and Electronics Engineering	Applied Linear Algebra For Signal Processing, Data Analytics And Machine	12 Weeks	https://online.vtu.ac.in/course-details/Applied-Linear-Algebra-For-Signal-Processing-Data-Analytics-	3
2	Electrical and Electronics Engineering	An Introduction To Coding Theory	8 Weeks	https://online.vtu.ac.in/course-details/an-introduction-to-coding-theory	2
3	Electrical and Electronics Engineering	Stochastic Control And Communication	12 Weeks	https://online.vtu.ac.in/course-details/stochastic-control-and-communication	3
4	Electrical and Electronics Engineering	Analysis And Design Principles Of Microwave Antennas	8 Weeks	https://online.vtu.ac.in/course-details/analysis-and-design-principles-of-microwave-antennas	2
5	Electrical and Electronics Engineering	Principles And Techniques Of Modern Radar Systems	12 Weeks	https://online.vtu.ac.in/course-details/principles-and-techniques-of-modern-radar-systems	3
6	Electrical and Electronics Engineering	Fiber Optic Communication Technology	12 Weeks	https://online.vtu.ac.in/course-details/Fiber-Optic-Communication-Technology	3
7	Electrical and Electronics Engineering	Probability Foundations For Electrical Engineers	12 Weeks	https://online.vtu.ac.in/course-details/Probability-Foundations-For-Electrical-Engineers	3
8	Electrical and Electronics Engineering	Mathematical Aspects Of Biomedical Electronic System Design	12 Weeks	https://online.vtu.ac.in/course-details/mathematical-aspects-of-biomedical-electronic-system-design	3
9	Electrical and Electronics Engineering	Applied Optimization For Wireless, Machine Learning, Big Data	12 Weeks	https://online.vtu.ac.in/course-details/Applied-Optimization-For-Wireless-Machine-Learning-Big-Data-	3
10	Electrical and Electronics Engineering	Microelectronics: Devices To Circuits	12 Weeks	https://online.vtu.ac.in/course-details/Microelectronics-Devices-To-Circuits	3
11	Electrical and Electronics Engineering	Photonic integrated circuit	12 Weeks	https://online.vtu.ac.in/course-details/Photonic-integrated-circuit	3
12	Electrical and Electronics Engineering	Fuzzy Sets, Logic and Systems & Applications	12 weeks	https://online.vtu.ac.in/course-details/fuzzy-sets-logic-and-systems-applications	3
13	Electrical and Electronics Engineering	Design Of Power Electronic Converters	8 Weeks	https://online.vtu.ac.in/course-details/Design-of-Power-Electronic-Converters	2
14	Electrical and Electronics Engineering	Optical Wireless Communications for Beyond 5G Networks and IoT	12 Weeks	https://online.vtu.ac.in/course-details/Optical-Wireless-Communications-for-Beyond-5G-	3

15	Electrical and Electronics Engineering	Fundamentals Of MIMO Wireless Communication	8 Weeks	https://online.vtu.ac.in/course-details/Fundamentals-Of-MIMO-Wireless-Communication-537713	2

Biotechnology and Bioengineering

Sl.No.	Discipline	Course Name	Duration	CourseLink	Credits
1	Biotechnology and Bioengineering	Maternal Infant Young Child Nutrition	12 Weeks	https://online.vtu.ac.in/course-details/maternal-infant-young-child-nutrition	3
2	Biotechnology and Bioengineering	RNA Biology	12 Weeks	https://online.vtu.ac.in/course-details/RNA-Biology	3
3	Biotechnology and Bioengineering	Biomechanics	12 Weeks	https://online.vtu.ac.in/course-details/Biomechanics	3
4	Biotechnology and Bioengineering	Structural Biology	12 Weeks	https://online.vtu.ac.in/course-details/Structural-Biology	3
5	Biotechnology and Bioengineering	Data Analysis For Biologists	8 Weeks	https://online.vtu.ac.in/course-details/Data-Analysis-for-Biologists	2
6	Biotechnology and Bioengineering	Bio Informatics: Algorithms and Applications	12 Weeks	https://online.vtu.ac.in/course-details/Bio-Informatics-Algorithms-and-Applications	3
7	Biotechnology and Bioengineering	Biointerface Engineering	8 Weeks	https://online.vtu.ac.in/course-details/Biointerface-Engineering	2
8	Biotechnology and Bioengineering	Bioreactor Design and Analysis	8 Weeks	https://online.vtu.ac.in/course-details/Bioreactor-Design-and-Analysis	2
9	Biotechnology and Bioengineering	Cell Biology: Cellular organization, division and processes	8 Weeks	https://online.vtu.ac.in/course-details/Cell-Biology-Cellular-organization-division-and-processes	2
10	Biotechnology and Bioengineering	Computational Systems Biology	12 Weeks	https://online.vtu.ac.in/course-details/Computational-Systems-Biology	3
11	Biotechnology and Bioengineering	Conservation Economics	12 Weeks	https://online.vtu.ac.in/course-details/conservation-economics-423872	3
12	Biotechnology and Bioengineering	Host-Pathogen Interaction (Immunology)	12 Weeks	https://online.vtu.ac.in/course-details/Host-Pathogen-Interaction-Immunology	3
13	Biotechnology and Bioengineering	Interactomics : Basics & Applications	12 Weeks	https://online.vtu.ac.in/course-details/Interactomics-Basics-Applications	3
14	Biotechnology and Bioengineering	Introductory Mathematical Methods for Biologists	8 Weeks	https://online.vtu.ac.in/course-details/Introductory-Mathematical-Methods-for-Biologists	2
15	Biotechnology and Bioengineering	Medical Biomaterials	8 Weeks	https://online.vtu.ac.in/course-details/Medical-Biomaterials	2

16	Biotechnology and Bioengineering	Nanotechnology In Agriculture	8 Weeks	https://online.vtu.ac.in/course-details/Nanotechnology-In-Agriculture	2
17	Biotechnology and Bioengineering	Optical Spectroscopy and Microscopy : Fundamentals of optical measurements and	12 Weeks	https://online.vtu.ac.in/course-details/Optical-Spectroscopy-and-Microscopy-Fundamentals-of-optical-	3
18	Biotechnology and Bioengineering	Biostatistics and Design of experiments	8 Weeks	https://online.vtu.ac.in/course-details/Biostatistics-and-Design-of-experiments	2
19	Agriculture Engineering	Modern Food Packaging Technologies: Regulatory Aspects and Global Trends	12 Weeks	https://online.vtu.ac.in/course-details/Modern-Food-Packaging-Technologies-Regulatory-Aspects-and-Global-Trends	3
20	Agriculture Engineering	Novel Technologies For Food Processing And Shelf Life Extension	12 Weeks	https://online.vtu.ac.in/course-details/novel-technologies-for-food-processing-and-shelf-life-extension	3
21	Agriculture Engineering	Cooling Technology: Why and How utilized in Food Processing and allied Industries	12 Weeks	https://online.vtu.ac.in/course-details/cooling-technology-why-and-how-utilized-in-food-processing-and-allied-industries	3