

CENTRE FOR ONLINE EDUCATION

B.E HONOURS



Offered By

Visvesvaraya Technological University
(State University of Government of Karnataka Established as per the VTU Act, 1994)

"Jnana Sangama" Belagavi-590018, Karnataka, India



MOOC COURSES

VTU has launched the award of MOOC Courses(Honours, Minors, Certification Courses and Skill Enhancement Courses) degree programmes.

It has been framed in pursuance of the provisions for this qualification in AICTE model curriculum for undergraduate programmes in Engineering and Technology.

In adopting these provisions, the University has taken steps to ensure that the quality and standard of the Degree awards are not compromised in any way, and they continue to be maintained at a high level.



MOOC COURSES

Honours Degree Programme Minors Degree Programme. Certification Courses. Skill Enhancement Courses.



HONOURS DEGREE atme on to the leading edge www.atme.in

An increasingly interconnected global company (the economies of the world's individual countries considered together as a single economic system) as the result of globalization is creating collaborative opportunities and competitive pressures requiring broadly educated engineers and business professionals.

Also, the next generation engineers have to practice an interdisciplinary approach to problem solving.

The Bachelor of Engineering degree with Honours earned with experiences, Both inside and outside the classroom

It will Enhance after graduation all types of opportunities as professional engineers in the competitive world.

HONOURS DEGREE OUTCOMES



Encourage the advanced levels of study and multidisciplinary learning

Specialize in a focused area of their interest.

Learn new skills and methodologies pertaining to their area of interest.

Enable personal creativity

Cultivate a sustaining interest in advanced education and research.

HONOURS DEGREE ELIGIBILTY CRI



- 1. The students are eligible to register for B.E/B.Tech Honours Programmes at their 5th sem level by paying onetime non- refundable registration fee of Rs.1000/-
- 2. The student shall have obtained a **grade** >= **D** in all courses in the first attempt only, in all semesters until 4th semester(including 4th semester)
- 3. The Student should have obtained a **CGPA>=7.5** at the end of 4th semester.
- 4. The Diploma lateral entry students should have completed the Additional Mathematics I and II during 3rd and 4th semester in first attempt only.
- 5. The B.Sc. Lateral entry should have completed the Engineering Graphics in 4^{th} semester in first attempt only.
- 6. Elements of Civil Engineering of first year Engineering programme should complete by the end of 4th sem in first attempt only.

HONOURS DEGREE PROCEDURE FOR REGISTRATION College WWW.cline.in



- 1. The students have to register online through https://online.vtu.ac.in
- 2. Click on the Sign in button on the top Right Corner
- 3. If the students are New User, Click on Create an account.
- 4. Fill your e-mail Id, Phone No, Name and Create a New Password
- 5. Click Sign Up, Enter OTP.
- 6. Login by entering your e-mail Id and Password.
- 7. You will be taken to student dashboard.
- 8. Click on Academics on the top right corner.
- 9. Then Click on Apply for Honour Degree
- 10. Fill up the details and submit form.
- 11. The registration fees of Rs.1000/- shall be paid through registration portal only.
- 12. No other payment mode is accepted and if made, the same will not refunded.



List of Courses for 2021- 22 Admitted Batch

UG COURSES

Engineering

	Textile Engineering							
Sl.No.	Discipline	Course Name	SME Name	Duration	Course Link	Credits		
1	Textile Engineering	Principles Of Combing, Roving Preparation & Ring Spinning	Prof. R Chattopadhyay	12 Weeks	https://online.vtu.ac.in/course-details/principles-of-combing-roving-preparation-	3		
		Yarn Manufacture I: Principle Of Opening, Carding And						
2	Textile Engineering	Drawing	Prof. R Chattopadhyay	12 Weeks	https://online.vtu.ac.in/course-details/yarn-manufacture-i-principle-of-opening-ca	3		
3	Textile Engineering	Technical Textiles	Prof. Apurba Das	12 Weeks	https://online.vtu.ac.in/course-details/Technical-Textiles	3		
4	Textile Engineering	Science Of Clothing Comfort	Prof. Apurba Das	12 Weeks	https://online.vtu.ac.in/course-details/science-of-clothing-comfort	3		
5	Textile Engineering	Textile Finishing	Prof. Kushal Sen	12 Weeks	https://online.vtu.ac.in/course-details/textile-finishing	3		
6	Textile Engineering	Science And Technology Of Weft And Warp Knitting	Prof. Bipin Kumar	12 Weeks	https://online.vtu.ac.in/course-details/science-and-technology-of-weft-and-warp-l	3		

Biotechnology and Bioengineering SME Name Duration Credits Sl.No. Discipline Course Name Course Link Prof. Vishal Trivedi, IITG Biotechnology and Bioengineering Genetic Engineering: Theory And Application 12 Weeks https://online.vtu.ac.in/course-details/Genetic-Engineering-Theory-and-Application Prof. Chaitanya A.Athale. 8 Weeks https://online.vtu.ac.in/course-details/Cellular-Biophysics-A-Framework-For-Qua 2 Biotechnology and Bioengineering Cellular Biophysics: A Framework For Quantitative Biology IISER pune Prof. Ganapathy Krishnamurthi, IITM Biotechnology and Bioengineering Medical Image Analysis 12 Weeks https://online.vtu.ac.in/course-details/Medical-Image-Analysis Biotechnology and Bioengineering Computer Aided Drug Design Prof. Mukesh Doble, IITM 8 Weeks https://online.vtu.ac.in/course-details/Computer-Aided-Drug-Design Biotechnology and Bioengineering Plant Cell Bioprocessing Prof. Smita Srivastava, IITM 8 Weeks https://online.vtu.ac.in/course-details/Plant-Cell-Bioprocessing Biotechnology and Bioengineering Bioreactors Prof. G.K. Suraishkumar, IITM 4 Weeks https://online.vtu.ac.in/course-details/Bioreactors Prof. Arun K. Thittai, IITM https://online.vtu.ac.in/course-details/Introduction-To-Biomedical-Imaging-System Biotechnology and Bioengineering Introduction To Biomedical Imaging Systems 12 Weeks Prof. Falguni Pati, IIT Biotechnology and Bioengineering Organ Printing Hyderabad 8 Weeks https://online.vtu.ac.in/course-details/Organ-Printing https://online.vtu.ac.in/course-details/Genome-Editing-And-Engineering Biotechnology and Bioengineering Genome Editing And Engineering Prof. Utpal Bora, IITG 12 Weeks 3 Biotechnology and Bioengineering Functional Genomics Prof. S.Ganesh, IITK 4 Weeks https://online.vtu.ac.in/course-details/Functional-Genomics Conservation Geography Prof. Ankur Awadhiya, IITK 11 Biotechnology and Bioengineering 12 Weeks https://online.vtu.ac.in/course-details/Conservation-Geography 3 Biotechnology and Bioengineering 12 Experimental Biotechnology Prof. Vishal Trivedi, IITG 12 Weeks https://online.vtu.ac.in/course-details/Experimental-Biotechnology 13 Biotechnology and Bioengineering Introduction To Mechanobiology Prof. Shamik Sen, IITB 8 Weeks https://online.vtu.ac.in/course-details/Introduction-To-Mechanobiology Biotechnology and Bioengineering Industrial Biotechnology Prof. Debabrata Das, IITKGP 12 Weeks https://online.vtu.ac.in/course-details/Industrial-Biotechnology 15 Maternal Infant Young Child Nutrition Prof. Rupal Dalal Link will be Updated Soon Biotechnology and Bioengineering 12 Weeks Biotechnology and Bioengineering Pharmacognosy & Metabolic Engineering Prof. Adinpunya Mitra Link will be Updated Soon 12 weeks Prof. Kaustubh Rau Prof. Sravanti Uppaluri Prof. Divya Uma Prof. Jayanti Ray Mukherjee Prof. Prachi Gupta Biotechnology and Bioengineering I Think Biology 12 Weeks Link will be Updated Soon Biotechnology and Bioengineering Classics in Neuroscience Prof. Varadhan SKM 8 Weeks Link will be Updated Soon Physical And Electrochemical Characterizations In Chemical Link will be Updated Soon Biotechnology and Bioengineering Prof. Tamal Banerjee 8 Weeks

	Computer Science and Engineering								
Sl.No.	Discipline	Course Name	SME Name	Duration	Course Link	Credits			
1	Computer Science and Engineering	Artificial Intelligence: Search Methods For Problem Solving	Prof. Deepak Khemani	12 Weeks	https://online.vtu.ac.in/course-details/Artificial-Intelligence-Search-Methods-For-Problem-Solving	3			
2	Computer Science and Engineering	Introduction To Haskell Programming	Prof. S. P Suresh	8 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Haskell-Programming	2			
			Prof. Janakiraman						
3	Computer Science and Engineering	C Programming And Assembly Language	Viraraghavan	4 Weeks	https://online.vtu.ac.in/course-details/C-Programming-And-Assembly-Language	1			
4	Computer Science and Engineering	Software Testing (IITKGP)	Prof. Rajib Mall	4 Weeks	https://online.vtu.ac.in/course-details/Software-Testing-IITKGP	1			
5	Computer Science and Engineering	Introduction To Industry 4.0 And Industrial Internet Of Things	Prof. Sudip Misra	12 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Industry-40-And-Industria	3			
6	Computer Science and Engineering	Natural Language Processing	Prof. Pawan Goyal	12 Weeks	https://online.vtu.ac.in/course-details/Natural-Language-Processing	3			
7	Computer Science and Engineering	The Joy Of Computing Using Python	Prof. Sudarshan Iyengar	12 Weeks	https://online.vtu.ac.in/course-details/The-Joy-of-Computing-using-Python	3			
8	Computer Science and Engineering	Modern Algebra	Prof. Manindra Agrawal	8 Weeks	https://online.vtu.ac.in/course-details/Modern-Algebra	2			
			Prof. Partha Pratim Das Prof.						
9	Computer Science and Engineering	Data Base Management System	Samiran Chattopadhyay	8 Weeks	https://online.vtu.ac.in/course-details/Data-Base-Management-System-384165	2			
10	Computer Science and Engineering	Python For Data Science	Prof. Ragunathan Rengasamy	4 Weeks	https://online.vtu.ac.in/course-details/Python-for-Data-Science	1			
11	Computer Science and Engineering	Introduction To Machine Learning	Prof. Balaraman Ravindran	12 Weeks	https://online.vtu.ac.in/course-details/Introduction-to-Machine-Learning	3			
			Prof. Ragunathan Rengasamy						
12	Computer Science and Engineering	Data Science For Engineers	Prof. Shankar Narasimhan	8 Weeks	https://online.vtu.ac.in/course-details/Data-Science-for-Engineers-815403	2			
13	Computer Science and Engineering	Programming, Data Structures And Algorithms Using Python	Prof. Madhavan Mukund	8 Weeks	https://online.vtu.ac.in/course-details/Programming-Data-Structures-And-Algorit	2			
14	Computer Science and Engineering	Google Cloud Computing Foundations	Prof. Soumya Kanti Ghosh	8 Weeks	https://online.vtu.ac.in/course-details/Google-Cloud-Computing-Foundations	2			
15	Computer Science and Engineering	Cloud Computing	Prof. Soumya Kanti Ghosh	12 Weeks	https://online.vtu.ac.in/course-details/Cloud-Computing	3			

16	Computer Science and Engineering	Programming In Java	Prof. Debasis Samanta	12 Weeks	https://online.vtu.ac.in/course-details/Programming-In-Java	3
17	Computer Science and Engineering	Getting Started With Competitive Programming	Prof. Neeldhara Misra	12 Weeks	https://online.vtu.ac.in/course-details/Getting-Started-with-Competitive-Program	3
18	Computer Science and Engineering	AI: Constraint Satisfaction	Prof. Deepak Khemani	8 Weeks	Link will be Updated Soon	2
19	Computer Science and Engineering	Foundation of Cloud IoT Edge ML	Prof. Rajiv Misra	8 Weeks	Link will be Updated Soon	2
20	Computer Science and Engineering	Information Security - 5 - Secure Systems Engineering	Prof. Chester Robeiro	8 Weeks	Link will be Updated Soon	2

Aerospace Engineering

Sl.No.	Discipline	Course Name	SME Name	Duration	Course Link	Credits
1	Aerospace Engineering	Aircraft Stability And Control	Prof. A.K.Ghosh	12 Weeks	https://online.vtu.ac.in/course-details/Aircraft-Stability-And-Control	3
			Prof. A K Ghosh			
2	Aerospace Engineering	Introduction To Airplane Performance	Prof Deepu Philip	8 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Airplane-Performance	2
3	Aerospace engineering	Introduction To Airbreathing Propulsion	Prof. Ashoke De	12 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Airbreathing-Propulsion	3
4	Aerospace Engineering	Design Of Fixed Wing Unmanned Aerial Vehicles	Prof. Subrahmanyam Saderla	8 Weeks	https://online.vtu.ac.in/course-details/Design-Of-Fixed-Wing-Unmanned-Aerial-V	2
5	Aerospace Engineering	Introduction To Aerospace Engineering-Flight	Prof. Rajkumar Pant	12 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Aerospace-Engineering-Fli	3
6	Aerospace engineering	Introduction To Aircraft Design	Prof. Rajkumar Pant	12 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Aircraft-Design	3
7	Aerospace Engineering	Space Flight Mechanics	Prof. Manoranjan Sinha	12 Weeks	https://online.vtu.ac.in/course-details/Space-Flight-Mechanics	3
8	Aerospace Engineering	Vibration And Structural Dynamics	Prof. Mira Mitra	8 Weeks	https://online.vtu.ac.in/course-details/Vibration-And-Structural-Dynamics	2
			Prof. Chetankumar Sureshbhai			
9	Aerospace Engineering	Aerodynamic Design Of Axial Flow Compressors & Fans	Mistry	12 Weeks	https://online.vtu.ac.in/course-details/Aerodynamic-Design-Of-Axial-Flow-Comp	3
10	Aerospace Engineering	Gasdynamics: Fundamentals and Applications	Prof. Srisha Rao M V	12 Weeks	Link will be Updated Soon	3
11	Aerospace Engineering	Introduction to Aircraft Control System	Prof. Dipak Kumar Giri	12 Weeks	Link will be Updated Soon	3
12	Aerospace Engineering	Fundamentals of Supersonic and Hypersonic Flow	Prof. Arnab Roy	12 Weeks	Link will be Updated Soon	3

Management

Sl.No.	Discipline	Course Name	SME Name	Duration	Course Link	Credits
1	Management	Toyota Production System	Prof. Rajat Agrawal	8 Weeks	https://online.vtu.ac.in/course-details/Toyota-Production-System	2
2	Management	Training Of Trainers	Prof. Santosh Rangnekar	12 Weeks	https://online.vtu.ac.in/course-details/Training-Of-Trainers	3
3	Management	Business Analytics & Data Mining Modeling Using R Part II	Prof. Gaurav Dixit	4 Weeks	https://online.vtu.ac.in/course-details/Business-Analytics-Data-Mining-Modeling	1
4	Management	Yoga And Positive Psychology For Managing Career And Life	Prof. Ashish Pandey	8 Weeks	https://online.vtu.ac.in/course-details/Yoga-And-Positive-Psychology-For-Manag	2
5	Management	Decision-Making Under Uncertainty	Prof. N. Gautam	4 Weeks	https://online.vtu.ac.in/course-details/Decision-Making-Under-Uncertainty	1
			Prof. Ashwin Mahalingam			
6	Management	Design Thinking - A Primer	Prof. Bala Ramadurai	4 Weeks	https://online.vtu.ac.in/course-details/Design-Thinking-A-Primer	1
7	Management	Strategy And Technology: A Practical Primer	Prof. C Bhaktavatsala Rao	12 Weeks	https://online.vtu.ac.in/course-details/Strategy-And-Technology-A-Practical-Prim	3
			Prof. Jayanta Chatterjee			
8	Management	Marketing Management - I	Prof. Shashi Shekhar	8 Weeks	https://online.vtu.ac.in/course-details/Strategy-And-Technology-A-Practical-Prim	2
9	Management	Game Theory	Prof.K.S. Mallikarjuna Rao	8 Weeks	https://online.vtu.ac.in/course-details/game-theory	2
10	Management	E-Business	Prof. Mamata Jenamani	12 Weeks	https://online.vtu.ac.in/course-details/E-Business	3
11	Management	Corporate Finance	Prof. Abhijeet Chandra	8 Weeks	https://online.vtu.ac.in/course-details/corporate-finance	2
12	Management	Strategic Management For Competitive Advantage	Prof. Sanjib Chowdhury	12 Weeks	https://online.vtu.ac.in/course-details/strategic-management-for-competitive-adv	3
13	Management	Econometric Modelling	Prof. Sujata Kar	8 Weeks	https://online.vtu.ac.in/course-details/econometric-modelling	2
14	Management	Industrial Safety Engineering	Prof. Jhareswar Maiti	12 Weeks	https://online.vtu.ac.in/course-details/industrial-safety-engineering	3

Mechanical Engineering

Sl.No.	Discipline	Course Name	SME Name	Duration	Course Link	Credits
1	Mechanical Engineering	Fundamentals Of Convective Heat Transfer	Prof. Amaresh Dalal	12 Weeks	https://online.vtu.ac.in/course-details/fundamentals-of-convective-heat-transfer	3
2	Mechanical Engineering	Aircraft Propulsion	Prof. Vinayak N. Kulkarni	12 Weeks	https://online.vtu.ac.in/course-details/Aircraft-Propulsion	3
3	Mechanical Engineering	Laser Based Manufacturing	Prof. S. N. Joshi	8 Weeks	https://online.vtu.ac.in/course-details/Laser-Based-Manufacturing	2
4	Mechanical Engineering	Mathematical Modeling Of Manufacturing Processes	Prof. Swarup Bag	12 Weeks	https://online.vtu.ac.in/course-details/mathematical-modeling-of-manufacturing-	3
5	Mechanical Engineering	Welding Application Technology	Prof. Pankaj Biswas	8 Weeks	https://online.vtu.ac.in/course-details/welding-application-technology	2
6	Mechanical Engineering	Robotics	Prof. Dk Pratihar	8 Weeks	https://online.vtu.ac.in/course-details/Robotics	2
7	Mechanical Engineering	Product Design And Development	Prof. Inderdeep Singh	4 Weeks	https://online.vtu.ac.in/course-details/product-design-and-development	1
8	Mechanical Engineering	Principles Of Metal Forming Technology	Prof. P. K. Jha	8 Weeks	https://online.vtu.ac.in/course-details/principles-of-metal-forming-technology	2
		Selection Of Nanomaterials For Energy Harvesting And Storage				
9	Mechanical Engineering	Application	Prof. Kaushik Pal	4 Weeks	https://online.vtu.ac.in/course-details/selection-of-nanomaterials-for-energy-harv	1
10	Mechanical Engineering	Structural Analysis Of Nanomaterials	Prof. Kaushik Pal	4 Weeks	https://online.vtu.ac.in/course-details/structural-analysis-of-nanomaterials	1
11	Mechanical Engineering	Introduction To Mechanical Vibration	Prof. Anil Kumar	8 Weeks	https://online.vtu.ac.in/course-details/introduction-to-mechanical-vibration	2
12	Mechanical Engineering	Fundamentals Of Manufacturing Processes	Prof. D. K. Dwivedi	12 Weeks	https://online.vtu.ac.in/course-details/fundamentals-of-manufacturing-processes	3
13	Mechanical Engineering	Design Of Mechatronic Systems	Prof. Prasanna Gandhi	12 Weeks	https://online.vtu.ac.in/course-details/design-of-mechatronic-systems	3
14	Design Engineering	Functional And Conceptual Design	Prof. Asokan T	12 Weeks	https://online.vtu.ac.in/course-details/functional-and-conceptual-design	3
15	Mechanical Engineering	Manufacturing Guidelines For Product Design	Prof. Inderdeep Singh	8 Weeks	Link will be Updated Soon	2
16	Mechanical Engineering	Mechatronics	Prof. Pushparaj Mani Pathak	8 Weeks	Link will be Updated Soon	2
17	Mechanical Engineering	Power Plant System Engineering	Prof. Niranjan Sahoo	12 Weeks	Link will be Updated Soon	3

18	Mechanical Engineering	Thermal Engineering: Basic and Applied	Prof. Pranab K. Mondal	12 Weeks	Link will be Updated Soon	3	
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	IVI	

EL-DIVI-IVIL							
Sl.No.	Discipline	Course Name	SME Name	Duration	Course Link	Credits	
			Prof Sushobhan Avasti				
1	Electrical, Electronics and Communication	s Fundamentals Of Micro And Nanofabrication	Prof. Shankar Selvaraja	12 Weeks	https://online.vtu.ac.in/course-details/Fundamentals-Of-Micro-And-Nanofabricat	3	
2	Computer Science and Engineering	Getting Started With Competitive Programming	Prof. Neeldhara Misra	12 Weeks	https://online.vtu.ac.in/course-details/Getting-Started-with-Competitive-Program	3	
3	Computer Science and Engineering	Social Network Analysis	Prof. Tanmoy Chakraborty	12 Weeks	https://online.vtu.ac.in/course-details/social-network-analysis	3	
4	Computer Science and Engineering	Design & Implementation Of Human-Computer Interfaces	Prof. Samit Bhattacharya	12 Weeks	https://online.vtu.ac.in/course-details/Design-Implementation-Of-Human-Compt	3	
5	Computer Science and Engineering	Ethical Hacking	Prof. Indranil Sengupta	12 Weeks	https://online.vtu.ac.in/course-details/Ethical-Hacking	3	
6	Computer Science and Engineering	Programming In Modern C++	Prof. Partha Pratim Das	12 Weeks	https://online.vtu.ac.in/course-details/programming-in-modern-c	3	
7	Computer Science and Engineering	Data Structure And Algorithms Using Java	Prof. Debasis Samanta	12 Weeks	https://online.vtu.ac.in/course-details/data-structure-and-algorithms-using-java	3	
8	Computer Science and Engineering	Introduction To Algorithms And Analysis	Prof. Sourav Mukhopadhyay	12 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Algorithms-And-Analysis	3	
9	Computer Science and Engineering	Google Cloud Computing Foundations	Prof. Soumya Kanti Ghosh	8 Weeks	https://online.vtu.ac.in/course-details/Google-Cloud-Computing-Foundations	2	
10	Computer Science and Engineering	Artificial Intelligence: Search Methods For Problem Solving	Prof. Deepak Khemani	12 Weeks	https://online.vtu.ac.in/course-details/Artificial-Intelligence-Search-Methods-For-	3	
11	Computer Science and Engineering	Python For Data Science	Prof. Ragunathan Rengasamy	4 Weeks	https://online.vtu.ac.in/course-details/Python-for-Data-Science	1	
12	Electrical and Electronics Engineering	Discrete Time Signal Processing	Prof. Mrityunjoy Chakraborty	8 Weeks	https://online.vtu.ac.in/course-details/Discrete-Time-Signal-Processing	2	
13	Electrical and Electronics Engineering	Fiber Optic Communication Technology	Prof. Deepa Venkitesh	12 Weeks	https://online.vtu.ac.in/course-details/Fiber-Optic-Communication-Technology	3	
14	Electrical and Electronics Engineering	Applied Optimization For Wireless, Machine Learning, Big Data	Prof. Aditya K. Jagannatham	12 Weeks	https://online.vtu.ac.in/course-details/Applied-Optimization-For-Wireless-Machin	3	
15	Electrical and Electronics Engineering	Design and Analysis of VLSI Subsystems	Prof. Madhav Rao	12 Weeks	Link will be Updated Soon	3	
16	Management	Innovation in Marketing and Marketing of Innovation	Prof. Vinay Sharma	12 Weeks	Link will be Updated Soon	3	

Chemical Engineering

Sl.No.	Discipline	Course Name	SME Name	Duration	Course Link	Credits
			Prof. Basavaraj Madivala			
1	Chemical Engineering	Colloids And Surfaces	Gurappa	8 Weeks	https://online.vtu.ac.in/course-details/Colloids-And-Surfaces	2
2	Chemical Engineering	Chemical Process Intensification	Prof. Subrata Kumar Majumder	12 Weeks	https://online.vtu.ac.in/course-details/Chemical-Process-Intensification	3
3	Chemical Engineering	Transport Phenomena Of Non-Newtonian Fluids	Prof. Nanda Kishore	12 Weeks	https://online.vtu.ac.in/course-details/Transport-Phenomena-Of-Non-Newtonian-	3
4	Chemical Engineering	Natural Gas Engineering	Prof. Pankaj Tiwari	8 Weeks	https://online.vtu.ac.in/course-details/Natural-Gas-Engineering	2
5	Chemical Engineering	Aspen Plus® Simulation Software - A Basic Course For Beginners	Prof. Prabirkumar Saha	12 Weeks	https://online.vtu.ac.in/course-details/Aspen-Plus%C2%AE-Simulation-Software-	3
6	Chemical Engineering	Chemical Process Control	Prof. Sujit Jogwar	8 Weeks	https://online.vtu.ac.in/course-details/chemical-process-control	2
		Trace And Ultra-Trace Analysis Of Metals Using Atomic				
7	Chemical Engineering	Absorption Spectrometry	Prof. J R Mudakavi	8 Weeks	https://online.vtu.ac.in/course-details/trace-and-ultra-trace-analysis-of-metals-usi	2
8	Chemical Engineering	Mechanical Operations	Prof. Shabina Khanam	4 Weeks	https://online.vtu.ac.in/course-details/mechanical-operations	1
9	Chemical Engineering	Equipment Design: Mechanical Aspects	Prof. Shabina Khanam	4 Weeks	https://online.vtu.ac.in/course-details/equipment-design-mechanical-aspects	1
10	Chemical Engineering	Chemical Process Safety	Prof. Shishir Sinha	12 weeks	https://online.vtu.ac.in/course-details/chemical-process-safety	3
11	Chemical Engineering	Basic Environmental Engineering And Pollution Abatement	Prof. P. Mondal	12 weeks	https://online.vtu.ac.in/course-details/basic-environmental-engineering-and-pollu	3
12	Chemical Engineering	Technologies For Clean And Renewable Energy Production	Prof. P. Mondal	8 Weeks	https://online.vtu.ac.in/course-details/technologies-for-clean-and-renewable-energy	2
		Hydrogen Energy: Production, Storage, Transportation And				
13	Chemical Engineering	Safety	Prof. Pratibha Sharma	12 Weeks	https://online.vtu.ac.in/course-details/hydrogen-energy-production-storage-trans	3
14	Chemical Engineering	Applied Statistical Thermodynamics	Prof. Tamal Banerjee	12 Weeks	Link will be Updated Soon	3
15	Chemical Engineering	Unit operations of particulate matter	Prof. Shabina Khanam	4 Weeks	Link will be Updated Soon	1

General

Sl.No.	Discipline	Course Name	SME Name	Duration	Course Link	Credits
1	Economics	Economics Of Banking And Finance Markets	Prof. Sukumar Vellakkal	12 Weeks	https://online.vtu.ac.in/course-details/economics-of-banking-and-finance-markets	3
		Introduction To Research	Prof. Edamana Prasad			
2	Multidisciplinary	New title: Research Methodology	Prof. Prathap Haridoss	8 Weeks	https://online.vtu.ac.in/course-details/Introduction-to-Research-Research-Method	2
3	Multidisciplinary	Solar Energy Engineering And Technology	Prof. Pankaj Kalita	12 Weeks	https://online.vtu.ac.in/course-details/solar-energy-engineering-and-technology	3
4	Humanities and Social Sciences	Technical English For Engineers	Prof. Aysha Iqbal	8 Weeks	https://online.vtu.ac.in/course-details/technical-english-for-engineers	2
5	Humanities and Social Sciences	Body Language: Key To Professional Success	Prof. Rashmi Gaur	4 Weeks	https://online.vtu.ac.in/course-details/Body-Language-Key-To-Professional-Succe	1
6	Humanities and Social Sciences	Patent Law For Engineers And Scientists	Prof. Feroz Ali	12 Weeks	https://online.vtu.ac.in/course-details/Patent-Law-For-Engineers-And-Scientists	3
7	Humanities and Social Sciences	German - I	Prof. Milind Brahme	12 Weeks	https://online.vtu.ac.in/course-details/German-I	3
			Prof. Priyadarshi Patnaik			
8	Humanities and Social Sciences	The Science of Happiness and Wellbeing	Prof. Manas K Mandal	8 Weeks	https://online.vtu.ac.in/course-details/The-Science-of-Happiness-and-Wellbeing-5	2
9	Mathematics	Calculus For Economics, Commerce And Management	Prof. I.K.Rana	8 Weeks	https://online.vtu.ac.in/course-details/Calculus-For-EconomicsCommerce-And-M	2
10	Mathematics	Advanced Engineering Mathematics	Prof. P.N. Agarwal	12 Weeks	https://online.vtu.ac.in/course-details/advanced-engineering-mathematics	3
11	Management	Entrepreneurship	Prof. C Bhaktavatsala Rao	12 Weeks	https://online.vtu.ac.in/course-details/Entrepreneurship	3
12	Management	E-Business	Prof. Mamata Jenamani	12 Weeks	https://online.vtu.ac.in/course-details/E-Business	3

13	Electrical and Electronics Engineering	An Introduction To Coding Theory	Prof. Adrish Banerjee	8 Weeks	https://online.vtu.ac.in/course-details/an-introduction-to-coding-theory	2
			Prof. N.P. Padhy			
14	Electrical and Electronics Engineering	Smart Grid: Basics To Advanced Technologies	Prof. Premalata Jena	12 Weeks	https://online.vtu.ac.in/course-details/Smart-Grid-Basics-To-Advanced-Technolog	3
15	Computer Science and Engineering	Cloud Computing	Prof. Soumya Kanti Ghosh	12 Weeks	https://online.vtu.ac.in/course-details/Cloud-Computing	3
16	Computer Science and Engineering	Introduction To Machine Learning - IITKGP	Prof. Sudeshna Sarkar	8 Weeks	https://online.vtu.ac.in/course-details/Introduction-to-Machine-Learning	2
17	Computer Science and Engineering	Programming In Java	Prof. Debasis Samanta	12 Weeks	https://online.vtu.ac.in/course-details/Programming-In-Java	3
18	Physics	Introduction To Astrophysical Fluids	Prof. Supratik Banerjee	12 Weeks	https://online.vtu.ac.in/course-details/Introduction-To-Astrophysical-Fluids	3
19	Physics	Advanced Quantum Mechanics With Applications	Prof. Saurabh Basu	8 Weeks	https://online.vtu.ac.in/course-details/Advanced-Quantum-Mechanics-With-App	2
20	Mechanical Engineering	Applied Thermodynamics For Engineers	Prof.Dipankar N. Basu	12 Weeks	https://online.vtu.ac.in/course-details/Applied-Thermodynamics-For-Engineers	3

Electronics and Communication Engineering

Sl.No.	Discipline	Course Name	SME Name	Duration	Course Link	Credits
		Artificial Intelligence: Search methods for problem solving Prof.				
1	Computer Science & Engineering	Deepak Khemani	Prof. Deepak Khemani	12 Weeks	https://online.vtu.ac.in/course-details/Artificial-Intelligence-Search-Methods-For-	3
			Understanding Incubation and			
		Understanding Incubation and Enterprenurship Prof. B K	Enterprenurship Prof. B K			
2	Design Engineering	Chakravarthy	Chakravarthy	12 Weeks	https://online.vtu.ac.in/course-details/Understanding-Incubation-and-Entreprene	3
			Learning Anlystics Tools Prof.			
3	Multidisplinary	Learning Anlystics Tools Prof. Rajkumar Rajendram	Rajkumar Rajendram	12 Weeks	https://online.vtu.ac.in/course-details/Learning-Analytics-Tools	3
			Operations Research Prof.			
4	Mathematics	Operations Research Prof. Kusumdeep	Kusumdeep	8 Weeks	https://online.vtu.ac.in/course-details/Operations-Research	2
			Intellactual Property Rigths			
			and Competition Law Prof. K.			
		Intellactual Property Rigths and Competition Law Prof. K. D.	D. Raju Prof. Niharika Sahoo			
5	Management	Raju Prof. Niharika Sahoo Bhattacharya	Bhattacharya	8 Weeks	https://online.vtu.ac.in/course-details/Intellectual-Property-Rights-and-Competiti	2
6	Computer Science & Engineering	Big Data Computing	Big Data Computing,	8 Weeks	https://online.vtu.ac.in/course-details/BIG-DATA-COMPUTING	2
7	Electrical and Electronics Engineering	Modern Digital Communication Techniques	PROF. SUVRA SEKHAR DAS	12 Weeks	https://online.vtu.ac.in/course-details/Modern-digital-communication-techniques	3
		Advanced Linear Continuous Control Systems: Applications				
8	Electrical and Electronics Engineering	With Matlab Programming And Simulink	PROF. YOGESH VIJAY HOTE	8 Weeks	https://online.vtu.ac.in/course-details/Advanced-Linear-Continuous-Control-Syst	2
9	Electrical and Electronics Engineering	Fundamentals of semiconductor devices		12 Weeks	Link will be Updated Soon	3
10	Electrical and Electronics Engineering	Embedded Sensing, Actuation and Interfacing Systems	Prof. Banibrata Mukherjee	12 Weeks	Link will be Updated Soon	3
11	Electrical and Electronics Engineering	Optical Wireless Communications for Beyond 5G Networks and IoT		12 Weeks	Link will be Updated Soon	3
12	Electrical and Electronics Engineering	Digital Protection of Power System		8 Weeks	Link will be Updated Soon	2

Electrical and Electronics Engineering

Sl.No.	Discipline	Course Name	SME Name	Duration	Course Link	Credits
			Design of Photovoltaic			
1	Electrical and Electronics Engineering	Design of Photovoltaic Systems	Systems, Prof. L Umanand	12 weeks	https://online.vtu.ac.in/course-details/design-of-photovoltaic-systems	3
			Smart Grid: Basics To			
			Advanced TechnologiesProf.			
			N.P. Padhy			
2	Electrical and Electronics Engineering	Smart Grid: Basics To Advanced Technologies	Prof. Premalata Jena	12 weeks	https://online.vtu.ac.in/course-details/Smart-Grid-Basics-To-Advanced-Technolog	3
			Advances In Uhv Transmission			
			And Distribution, Prof Subba			
3	Electrical and Electronics Engineering	Advances In Uhv Transmission And Distribution	Reddy	8 Weeks	https://online.vtu.ac.in/course-details/advances-in-uhv-transmission-and-distribu	2
			Enclosure Design Of			
			Electronics Equipment, Prof. N.			
4	Electrical and Electronics Engineering	Enclosure Design Of Electronics Equipment	V Chalapathi Rao	12 Weeks	https://online.vtu.ac.in/course-details/enclosure-design-of-electronics-equipment	3
			Microelectronics: Devices To			
5	Electrical and Electronics Engineering	Microelectronics: Devices To Circuits	Circuits, Prof. Sudeb Dasgupta	12 Weeks	https://online.vtu.ac.in/course-details/Microelectronics-Devices-To-Circuits	3
			Advanced Linear Continuous			
			Control Systems: Applications			
			With Matlab Programming			
		Advanced Linear Continuous Control Systems: Applications	And Simulink, Prof. Yogesh			
6	Electrical and Electronics Engineering	With Matlab Programming And Simulink	Vijay Hote	8 Weeks	https://online.vtu.ac.in/course-details/Advanced-Linear-Continuous-Control-Syst	2
			Dc Microgrid And Control			
			Systems, Prof. Avik			
7	Electrical and Electronics Engineering	Dc Microgrid And Control Systems	Bhattacharya	8 Weeks	https://online.vtu.ac.in/course-details/dc-microgrid-and-control-systems	2
			Electrical Distribution System			
8	Electrical and Electronics Engineering	Electrical Distribution System Analysis	Analysis, Prof. G. B. Kumbhar	8 Weeks	https://online.vtu.ac.in/course-details/electrical-distribution-system-analysis	2
			Digital Control in Switched			
			Mode Power Converters and			
		Digital Control in Switched Mode Power Converters and FPGA-	FPGA-based Prototyping, Prof.			_
9	Electrical and Electronics Engineering	based Prototyping	Santanu Kapat	12 Weeks	https://online.vtu.ac.in/course-details/digital-control-in-switched-mode-power-co	3

			VLSI Interconnects, Prof.			
10	Electrical and Electronics Engineering	VLSI Interconnects	Sarang Pendharker	8 Weeks	https://online.vtu.ac.in/course-details/vlsi-interconnects	2
			System Design Through			
			Verilog, Prof. Shaik Rafi			
11	Electrical and Electronics Engineering	System Design Through Verilog	Ahamed	8 Weeks	https://online.vtu.ac.in/course-details/system-design-through-verilog	2
			Applied Electromagnetics For			
			Engineers, Prof. Pradeep			
12	Electrical and Electronics Engineering	Applied Electromagnetics For Engineers	Kumar K	12 Weeks	https://online.vtu.ac.in/course-details/Applied-Electromagnetics-For-Engineers	3
			Fundamentals of			
			semiconductor devices, Prof.			
13	Electrical and Electronics Engineering	Fundamentals of semiconductor devices	Digbijoy N. Nath	12 Weeks	Link will be Updated Soon	3
			A brief introduction of Micro -			
			Sensors, Prof. Santanu			
14	Electrical and Electronics Engineering	A brief introduction of Micro - Sensors	Talukder	4 Weeks	Link will be Updated Soon	1
			Electric Vehicles - Part 1, Prof.			
15	Electrical and Electronics Engineering	Electric Vehicles - Part 1	Amit Jain	8 Weeks	Link will be Updated Soon	2
	The state of the s		Industrial Automation And			
16	Electrical and Electronics Engineering	Industrial Automation And Control	Control, Prof. Alokkanti Deb	12 Weeks	Link will be Updated Soon	3
			Signal Processing Techniques			
			and its Applications, Prof.			
17	Electrical and Electronics Engineering	Signal Processing Techniques and its Applications	Shyamal Das Mandal	12 Weeks	Link will be Updated Soon	3

Automobile Engineeing

Sl.No.	Discipline	Course Name	SME Name	Duration	Course Link	Credits
1	Mechanical Engineering	Computational Continuum Mechanics	Prof. Sachin Singh Gautam	12 Weeks	https://online.vtu.ac.in/course-details/computational-continuum-mechanics	3
2	Mechanical Engineering	Mechanism And Robot Kinematics	Prof. Anirvan Dasgupta	8 Weeks	https://online.vtu.ac.in/course-details/Mechanism-And-Robot-Kinematics	2
			Prof. Prasanta Kr Das & Prof.			
3	Mechanical Engineering	Heat Exchangers: Fundamentals And Design Analysis	Indranil Ghosh	12 Weeks	https://online.vtu.ac.in/course-details/heat-exchangers-fundamentals-and-design-	3
4	Mechanical Engineering	Power Plant Engineering	Prof. Ravi Kumar	8 Weeks	https://online.vtu.ac.in/course-details/Power-Plant-Engineering	2
			Prof. Dhiman Chatterjee			
5	Mechanical Engineering	Fluid Dynamics And Turbomachines	Prof. Shamit Bakshi	8 Weeks	https://online.vtu.ac.in/course-details/Fluid-Dynamics-And-Turbomachines	2
			Prof. J. Ramkumar			
6	Mechanical Engineering	Rapid Manufacturing	Prof. Amandeep Singh	12 Weeks	https://online.vtu.ac.in/course-details/rapid-manufacturing	3
			Prof. Gautam Biswas / Prof.			
7	Mechanical Engineering	Conduction And Convection: Fundamentals And Applications	Sameer Khandekar	12 Weeks	https://online.vtu.ac.in/course-details/Conduction-And-Convection-Fundamental	3
8	Management	Toyota Production System	Prof. Rajat Agrawal	8 Weeks	https://online.vtu.ac.in/course-details/Toyota-Production-System	2
9	Management	Manufacturing Strategy	Prof. Rajat Agrawal	8 Weeks	https://online.vtu.ac.in/course-details/manufacturing-strategy	2
10	Management	Product And Brand Management	Prof. Vinay Sharma	12 weeks	https://online.vtu.ac.in/course-details/product-and-brand-management	3
11	Management	Econometric Modelling	Prof. Sujata Kar	8 Weeks	https://online.vtu.ac.in/course-details/econometric-modelling	2
12	Management	Services Marketing: Integrating People, Technology, Strategy	Prof. Zillur Rahman	8 Weeks	https://online.vtu.ac.in/course-details/services-marketing-integrating-people-tech	2
			Prof. Rajat Agrawal			
13	Management	Innovation, Business Models And Entrepreneurship	Prof. Vinay Sharma	8 Weeks	https://online.vtu.ac.in/course-details/innovation-business-models-and-entrepren	2
14	Management	Operations And Supply Chain Management	Prof. G. Srinivasan	12 Weeks	https://online.vtu.ac.in/course-details/operations-and-supply-chain-management	3
			Prof. Ashwin Mahalingam			
15	Management	Design Thinking - A Primer	Prof. Bala Ramadurai	4 Weeks	https://online.vtu.ac.in/course-details/Design-Thinking-A-Primer	1

Civil Engineering

Sl.No.	Discipline	Course Name	SME Name	Duration	Course Link	Credits
1	Civil Engineering	Finite Element Method And Computational Structural Dynamics	Prof. Manish Shrikhande	12 Weeks	https://online.vtu.ac.in/course-details/Finite-Element-Method-And-Computational	3
2	Civil Engineering	Mechanics Of Materials	Prof. Saravanan.U	12 Weeks	https://online.vtu.ac.in/course-details/Mechanics-Of-Materials	3
3	Civil Engineering	Project Planning & Control	Prof. Koshy Varghese	8 Weeks	https://online.vtu.ac.in/course-details/project-planning-control	2
4	Civil Engineering	Principles Of Construction Management	Prof. Sudhir Misra	8 Weeks	https://online.vtu.ac.in/course-details/principles-of-construction-management	2
5	Civil Engineering	Municipal Solid Waste Management	Prof. Ajay Kalamdhad	12 Weeks	https://online.vtu.ac.in/course-details/municipal-solid-waste-management	3
		Introduction to Multimodal Urban Transportation Systems	Prof. Arkopal Kishore			
6	Civil Engineering	(MUTS)	Goswami	12 Weeks	https://online.vtu.ac.in/course-details/introduction-to-multimodal-urban-transpo	3
7	Civil Engineering	Bridge Engineering	Prof. Piyali Sengupta	12 Weeks	https://online.vtu.ac.in/course-details/bridge-engineering	3
8	Civil Engineering	Wastewater Treatment And Recycling	Prof. Manoj Kumar Tiwari	12 Weeks	https://online.vtu.ac.in/course-details/wastewater-treatment-and-recycling	3
			Prof. Amit Shaw			
9	Civil Engineering	Matrix Method Of Structural Analysis	Prof Biswanath Banerjee	8 Weeks	https://online.vtu.ac.in/course-details/matrix-method-of-structural-analysis	2
10	Civil Engineering	Integrated Waste Management For A Smart City	Prof. Brajesh Kumar Dubey	12 Weeks	https://online.vtu.ac.in/course-details/integrated-waste-management-for-a-smart-	3
11	Civil Engineering	Sustainable Engineering Concepts And Life Cycle Analysis	Prof. Brajesh Kumar Dubey	8 Weeks	https://online.vtu.ac.in/course-details/Sustainable-Engineering-Concepts-And-Lif	2
12	Civil Engineering	Sustainable Transportation Systems	Prof. Bhola Ram Gurjar	12 Weeks	https://online.vtu.ac.in/course-details/sustainable-transportation-systems	3
13	Civil Engineering	Advanced Foundation Engineering	Prof. Kousik Deb	12 Weeks	Link will be Updated Soon	3
14	Civil Engineering	Microwave Remote Sensing in Hydrology	Prof. J. Indu	12 Weeks	Link will be Updated Soon	3

15	Civil Engineering	Plastic Waste Management	Prof. Brajesh Kumar Dubey	8 Weeks	Link will be Updated Soon	2
16	Civil Engineering	Remote Sensing Essentials	Prof. Arun K. Saraf	12 Weeks	Link will be Updated Soon	3
17	Civil Engineering	Modern Construction Materials	Prof. Ravindra Gettu	12 Weeks	Link will be Updated Soon	3
18	Civil Engineering	Energy Efficiency, Acoustics and Daylighting in Building	Prof. B. Bhattacharjee	12 Weeks	Link will be Updated Soon	3





Examination is done by VTU platform.

Exams are made available in Online Proctored.

Each course consists of 100 Marks.

- 50% is considered for Assignments.
- 50% is considered for External Exam.



Thank you