



VIT[®]

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

SCHOOL OF MECHANICAL ENGINEERING

VITREE - (July 2026) SESSION

RESEARCH FACILITIES AVAILABLE:

MANUFACTURING (MANUFACTURING ENGINEERING / ADVANCED MANUFACTURING)

Sl. No.	Lab	Lab Equipment Details
1	Centre for Additive Manufacturing / PURSE Lab	Metal 3D Printer (Laser Powder-Bed Fusion), Polymer FDM Printers, Bio-3D Printers.
2	Advanced Materials Processing & Testing	Tribo-Nanoindenter, Micro X-Ray CT Scanner, X-Ray Photoelectron Spectroscopy (XPS), Surface Profilometer, SEM/EDS (Facility-Level Instruments).
3	Machine Shop / CNC & EDM	CNC Lathes/Mills, Wire-EDM, Ultrasonic Vibration-Assisted Machining Setups, Force/Dynamometer For Machining Tests.
4	Welding & Forming	Friction-Stir Welding Machine, MIG/TIG Welding Setups, Hydraulic Presses And Rolling Mills (Metal Forming Lab).

THERMAL & ENERGY (THERMAL & ENERGY ENGINEERING)

Sl. No.	Lab	Lab Equipment Details
1	Thermal Engineering Systems Lab & Solar Thermal Lab	Solar Thermal Test Rigs And Associated Instrumentation
2	High-temperature furnaces & material testing	Silicon-Carbide Tubular Vacuum Furnaces, High-Temperature Test Rigs Used For Material/Thermal Studies
3	Electrochemical / surface analysis tools - supporting energy materials work	Electrochemical Workstation, Contact Angle / Surface Tension Analyzers.

DESIGN & AUTOMATION (DESIGN & CAD/CAM / MECHATRONICS)

Sl. No.	Lab	Lab Equipment Details
1	Advanced Computational Facility & CAD/CAM labs	CAD/CAE Software Suites, HPC / GPU Servers For Simulation
2	Composites & Prototype Labs	Composite Fabrication Setups, Vacuum Bagging, Specimen Testing (Utms) For Design Validation
3	Test & measurement	High-Speed Cameras, Keyence Digital Microscope, Vibration Shaker Systems For Dynamics Testing

Sl. No.	Name of the Faculty	Designation	Research Area	Email ID	Mobile Number
1	Dr. Vezhavendhan R	Associate Professor Sr.	Lean Manufacturing, Entrepreneurship, Enterprise Transformation, Quality	9159413911	vezhavendhan.r@vit.ac.in
2	Dr. Edison Gundabattini	Professor HAG	Wind Energy, Waste To Wealth, Turbomachines, Electric Motor And Generator Cooling, Developng A Low Cost Refregeration	9442259535	edison.g@vit.ac.in
3	Dr. Sridharan K	Assistant Professor	3d Printed Composites, Vibrational Analysis	9443086111	sridharan.k@vit.ac.in
4	Dr. Srinivasa Gupta N	Professor Grade 1	Six Sigma Implementation, Data Mining, Layout Design	9443403850	srinivasagupta.n@vit.ac.in
5	Dr. Porpatham. E	Professor HAG	Internal Combustion Engineering	7598225034	porpatham.e@vit.ac.in
6	Dr. Sreethul Das	Assistant Professor Sr. Grade 1	Precision Machining, Grinding And Abrasive Finishing, Additive Manufacturing, Sustainable Manufacturing	8056469880	sreethuldas@vit.ac.in
7	Dr. Raja K	Professor Grade 1	Fuel Cell Components For Electric Vehicles Using Additive Manufacturing	9442357833	kumar.raja@vit.ac.in
8	Dr. Niranjana Behera	Professor Grade 1	Friction And Wear	9092656890	niranjanebehera@vit.ac.in
9	Dr. Venkateshwarlu B	Professor Grade 1	Advanced Manufacturing	9500646281	venkateshwarlu.b@vit.ac.in
10	Dr. Govindha Rasu N	Professor Grade 1 & HoD-DAE	Clean Energy, Nuclear Thermal Hydraulics	9444226212	ngrasu@vit.ac.in
11	Dr. Bikash Routh	Associate Professor Grade 1	Digital-Twins, Internet Of Things	9432174391	bikashrouth@vit.ac.in
12	Dr. Sreeja Sadasivan	Associate Professor Grade 1	Dynamics Of Droplets, Vacuum Tube Transportation, Analysis Of Turbine Exhaust Systems, Turbine Blade Cooling, Energy Harvesting By Vortex Induced Vibrations	9095051009	sreeja.sadasivan@vit.ac.in
13	Dr. Vinoth Jebaraj A	Associate Professor Sr.	Metal Joining, Metal Additive Manufacturing, Surface Engineering, Finite Element Simulation	9443901928	vinothjebaraj.a@vit.ac.in
14	Dr. Devasri Fuloria	Assistant Professor Sr. Grade 1	Material Charcterization And Mechanical Behaviour Of	8218292148	devasri.fuloria@vit.ac.in

			Thermomechanically Processed Metals And Alloys		
15	Dr. Gunji Bala Murali	Associate Professor Grade 1	Human-Robot Collaboration For Disassembly Operation, Augmented Reality Approach To Carry Disassembly Operation For Eol Products, Vision Assisted Robotic Manipulator Based Sorting The E Waste, Design And Development Of Bio- Inspired Lattice Structures For Effective Thermal Management In Batteries For Ev Vehicles	8093831101	balamurali.g@vit.ac.in
16	Dr. Vivek Kumar Barnwal	Associate Professor Grade 1	Aerospace-Grade Metals, Numerical Sheet Forming, Continuum Modeling	9833997296	vivekkumar.barnwal@vit.ac.in
17	Dr. Somnath De	Assistant Professor (Research)	Thermo-Fluid Systems, Flow-Acoustic-Flame Interactions, Gas Turbine Combustion, Biofuel Combustion, Application Of Multiple Burners, Complex Systems, Data-Driven And Machine Learning Techniques, Application Of Nonlinear Dynamics, Multiphase Flow, Critical Events In Climate Systems	8777262095	somnath.de@vit.ac.in
18	Dr. Ratnesh Raj	Assistant Professor (Research)	Additive Manufacturing, Metamaterials, Polymer Composites, And Data-Driven Modeling In Manufacturing	9015770557	ratnesh.raj@vit.ac.in
19	Dr. Himanshu Rai	Assistant Professor Senior Grade 1	Tribology, 2d Materials	9701834854	himanshu.rai@vit.ac.in
20	Dr. Dinesh Kumar R	Assistant Professor Sr. Grade 2	Variable Swept Area Vertical Axis Wind Turbines (Vawts), Vortex Induced Vibration Energy Harvesting Systems (Vivehs), Proton Exchange Membrane Fuel Cells (Pemfcs - Stack Development And Bop), Electric Vehicle - Battery Thermal Management Systems,	9629037682	dineshkumar.ravi@vit.ac.in

			Computational Fluid Dynamics Modelling In Engineering Applications		
21	Dr. Prashik Sunil Gaikwad	Assistant Professor Sr. Grade 2	Batteries, Electrocatalysis, And Polymer Composites. My Group Focuses On Atomistic Materials Modelling Using Dft And Md, And Includes Machine Learning And Genai Towards The Discovery Of Novel Materials	7972155404	prashik.gaikwad@vit.ac.in
22	Dr. Sridhar V G	Professor Grade 2	Digital Manufacturing , Machine Vision System, New Product Development, Lean Manufacturing, Digital Supply Chain Manufacturing, Additive Manufacturing, Fsw	9176145544	vgsridhar@vit.ac.in
23	Dr. Naiju C.D	Professor HAG, Director, SWF	New Product Development, Design For Manufacutring And Assembly, Layered Manufacturing (Rapid Prototyping)	9443330174	cdnaiju@vit.ac.in
24	Dr. Senthil Kumar M	Associate Professor Grade 2	Cryogenics, Ic Engines, Thermal Science	9443097565	msenthilkumar@vit.ac.in
25	Dr. Yagna S Mukkamala	Professor HAG	Metal Machining, Soft Computing, Condition Monitoring, Mectronics	9345310732	yagnasmukkamala@vit.ac.in
26	Dr. Sakthivel P	Professor Grade 1	Vehicle Dynamics, Automotive Nvh, Operational Modal Analysis & Transfer Path Analysis Autonomous Vehicles And It's Dynamics Aspects. Electric And Hybrid Vehicle Nvh.	9952281074	psakthivel@vit.ac.in
27	Dr. Velu M	Professor Grade 1	Additive Manufacturing, Materials And Structure, Dissimilar Welding, Ebw, Rfw, Fracture & Fatigue Crack Growth, High Cycle Fatigue And Low Cycle Fatigue, Computational Mechanics, High Temperature Studies, Low Temperature Studies, Computational Mechanics	9444551700	mvelu@vit.ac.in
28	Dr. Natarajan M	Professor Grade 1	Green Hydrogen Production Using Various Renewable Energy Sources, Hydrogen Storage Techniques,	8220129821	m.natarajan@vit.ac.in

			Sustainable Building Concepts, Passive Space Cooling Techniques		
29	Dr. Padmanabhan K	Professor HAG	Smart Manufacturing Of Metal Organic Frameworks	9840032002	padmanabhan.k@vit.ac.in
30	Dr. Akash Mohanty	Professor Grade 1	Micro And Nanoscale Analysis Of Advanced Materials; Fracture And Damage Mechanics Analysis For Structural Integrity And Durability; Advanced Nanocomposites For Sustainable Developments; Fibre Reinforced Polymer Waste Prevention And Reuse; Finite Element Analysis In Nanotechnology Research	8903309241	mohanty@vit.ac.in
31	Dr. Soumen Pal	Professor Grade 2	Material Processing And Characterization, Ceramic And Polymer Materials, Composite Materials/ Nanocomposites, High Temperature Materials	8870446529	soumenpal@vit.ac.in
32	Dr. Mohan C G	Professor Grade 1	Sustainable And Renewable Resources To Hydrogen Production, Hydrothermal Liquefaction And Bio-Fuel Production, Biogas Production And Optimization From Biowaste To Reduce The Environmental Degradation	9865399484	mohan.cg@vit.ac.in
33	Dr. Krishna S	Assistant Professor Sr. Grade 2	Automotive Control System, Hybrid And Electric Vehicle, Iot, Advance Automation	9994472607	krishna.s@vit.ac.in
34	Dr. Narendra Kumar U	Professor Grade 1	3d, 4d Shape Memory Materials, Polymer Composites, Materials For Life Sciences, Metals And Alloys, Thin Film Coating	9094351691	u.narendrakumar@vit.ac.in
35	Dr. Sharan Chandran M	Assistant Professor Sr. Grade 2	Additive Manufacturing, Materials And Manufacturing, Ai Assisted Materials Research, Sustainability	9789240287	sharanchandran.m@vit.ac.in
36	Dr. Premkartikkumar	Associate Professor Sr.	I C Engines, Alternative Fuels, Nano	9941275261	premkartik.sr@vit.ac.in

	SR		Fluids, Heat Transfer, Waste Utilisation, Renewable Energies		
37	Dr. Aravind Raj S	Professor Grade 1	Biomimetic Additive Manufacturing, Machine Learning & Artificial Intelligence	9994414363	aravindrajs@vit.ac.in
38	Dr. Chinmaya Prasad Mohanty	Associate Professor Grade 2	Ai-Driven Manufacturing, Additive Manufacturing, Iot In Manufacturing, Additive Manufacturing Of Electronics	9438480248	cprasad.mohanty@vit.ac.in
39	Dr. Bibhuti Bhusan Sahoo	Professor Grade 1	Development Of New Technology For Future Internal Combustion Engines, Waste To Energy Conversion Of Bio-Degradable Biomass, Exergy And Energy Efficiency For Thermodynamic Systems, New Technology And Low-Cost Product For Bio-Cng Production, Clean Water Production Through Renewable Energy. , New Materials For Ev Battery.	9437350031	bb.sahoo@vit.ac.in
40	Dr. Ahankari Sandeep Sureshrao	Professor Grade 1	Aerogels For Water Purification And Supercapacitors; Functionally Graded Polymer Composites; Thermo-Mechanical Characterization Of Polymers/Biopolymers And Its Composites	8446428020	asandeep.s@vit.ac.in
41	Dr. Jayaprakash Narayan M	Assistant Professor Sr. Grade 2	Shock Wave Boundary Layer Interaction, Fluid Mechanics And Thermal Science, Aerodynamics, Experimental Fluid Dynamics, Computational Fluid Dynamics	8105419267	jayaprakash.n@vit.ac.in
42	Dr. Anuj Kumar	Associate Professor Grade 1	"Hydro Kinetic Turbines, Hydro Turbine Design And Performance Testing, Wind Turbine, Integrated Renewable Energy System And Solar Energy	7669037769	anujkumar@vit.ac.in
43	Dr. Gaurav Gupta	Associate Professor Grade 1 & Time-table Co-ordinator	Wind Turbine Design And Performance Testing, "	9907733336	gauravgupta@vit.ac.in

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48	Dr. Vincent Herald Wilson	Professor Grade 2	Advanced Nanomaterials Composites, Environmental Damage And Degradation Of Composites, Recycling Of Composites, Mechanical Behaviour And Characterization Of Materials, Modelling Of Composites Using Molecular Dynamics, Matlab, And Ansys.	9345555008	vincenthwilson@gmail.com
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