

TENTATIVE AREAS FOR PH.D. ADMISSIONS – 2026-27**Faculty of Technology and Engineering (Part-Time)**

	Area	Number of Seats
Chemical Engineering	• Catalysis, Biofuels, Gasification & Pyrolysis • Abatement of Industrial Pollution, Nanotechnology for environmental applications, Advanced Oxidation Processes • Phase Equilibrium Studies • Advanced Distillation Simulations • Deep Eutectic Solvents, Ionic Liquids, Green Solvents • Polymer Technology, polymers in drug delivery • Cleaner production, Green Chemical Engineering, Hydrogen Energy • Multiphase flow, Transport Phenomena, Process Optimization • Air quality monitoring, Climate change • Waste Water Treatment	13
Civil Engineering	• Structural Engineering • Construction Technology and Management, Planning and Scheduling, Construction Safety & Quality management, Digital Construction Technologies, Lean Construction, Contract Management • Geo-Technical Engineering • Geomatics • Concrete Technology, Special Concrete, Construction Materials, Recycled Materials, Repair and Retrofitting of structures • Transportation Engineering • Water and Wastewater Treatment, Environmental Nanotechnology • Water Resources management, Flood Modelling, Hydrology	24
Computer Engineering	• Applied Machine Learning and Deep Learning, Generative AI, Optimization • Wireless Networks ML/DL, Computational Medicine • Network Security, Blockchain Technology, Cyber Security • Human Computer Interaction (BCI and Eye Tracking), AR/VR, Audio and Speech Processing, Computer Vision	40

	• Healthcare, Image Processing, Satellite Image Analysis • Cloud computing and its applications, Quantum Computing, and Cyber Security • IoT and Wireless Networks • Natural Language Processing, Machine Learning/Deep Learning Image Processing, Satellite Image Analysis, Medical Image Processing, Hyperspectral Image Processing • Wireless Communications, Network Security • AI/ML, Blockchain, EV, Big Data Analytics, Cyber Security, etc. • Information Retrieval, Machine Learning • Medical image analysis, Medical imaging, AI in healthcare • Big data storage and Analytics • Artificial Intelligence and Machine Learning, Remote Sensing, Quantum Computing • Security, Machine and Deep Learning, Wireless Communication • Machine Learning, Deep Learning, Image processing, Medical images • Big Data Analytics, Healthcare, ML/DL, Graph mining • Machine learning, Image Processing	
Electrical Engineering	• Power Electronics Devices, Converters, Drives, and Power Quality Improvement, Multi-level Converters, Advanced PWM Controller, Artificial Intelligence based Power Electronic Systems • Electrical Power System Analysis; Power System Dynamics, Modelling, HVDC Transmission, FACTS, Power System Protection, Optimization and Intelligent techniques in Power Systems, Solar and Wind based Renewable integration with Grid, Smart Grid, High Voltage Engineering • Design, Modelling, Performance analysis, and Optimization of Conventional and Advanced Electrical Machines • Electrical Vehicles, On-board and off-board Electric Vehicle Chargers, Battery Management System • Applications of IoT, Data Analytics, Load and Generation Forecasting in Electrical Engineering • Generation of Electricity by Waste Water Treatment, Applications of Plasma	23

• Electronics Instrumentation Engineering &	• Biomedical Instrumentation, Robotics and its Applications, Sensors & Measurement • Vision Systems, Deep Learning, Industrial Automation • Image and Signal Processing • Embedded system for automation, Power electronics • Signal, image and Video Processing, Machine Learning/Deep Learning, Healthcare Data processing, IoT, and WSN	11
Mechanical Engineering	• Thermal and Fluid Engineering • Renewable Energy • Thermo-chemical Conversion of biomass/coal -pyrolysis, gasification, combustion • I. C. Engine and Alternate fuels • Multiphase flow • Microfluidics • Turbomachine • Computational Fluid Dynamics and Heat Transfer • Heat Exchangers • Rarefied gas flow • Manufacturing processes and their analysis • Sheet metal forming • Additive Manufacturing, Sustainable manufacturing • Metal Joining and Casting • Microwave based melting • Friction stir processing • Sustainable Machining • Sheet Metal Forming • Advanced Materials • Production and Industrial Engineering • Quality Engineering and Management • Design Engineering • Stress Analysis • Fracture Mechanics and Bio Mechanics • Robotics • Vibration and Condition monitoring of mechanical equipment • Material Science • Machining, Metal forming, Production and operations research. • Machine Design, Vibration, Smart Materials & Structures • Manufacturing Engineering • Solar Energy Systems, Refrigeration and Air Conditioning, Boiling Heat Transfer • Machine Design, Vibration, Smart Materials & Structures	47

	• Manufacturing, Sustainable Manufacturing, Machine Learning application in manufacturing, Additive Manufacturing, Materials Processing • Fluid Mechanics, Heat Transfer, CFD • Renewable Energy, Thermal and Fluid Sciences • Quality Management, Operational Excellence, Sustainable Manufacturing, • Bio Materials Processing for implants, Sustainable Manufacturing Processes, Exoskeleton wearable devices	
Electronics & Communication Engineering	• Hardware security, VLSI Design, Test and Verification • RF MEMS Design, Analog VLSI Design, Embedded system • Wireless Communication and Networking • Signal and Image Processing • Machine Learning and Computer Vision • Cyber Physical System • Digital communication, wireless communication, signal processing and remote sensing. • Wireless, Networks, Internet of Things Embedded Systems • Analog mixed signal VLSI design, High speed Current mode circuit, biological process based analogue circuits design, Chip design for healthcare device application • Image Processing, Computer Vision, Machine Learning and Artificial Intelligence	18
Mathematics	• Mathematics	07
Humanities and Social Science	• Economics	02
	Total Seats	185

Faculty of Pharmacy (Part-Time)

Areas of Research	Number of Seats
Pharmaceutical Chemistry	06
Pharmaceutics	03
Pharmacognosy	04
Total Seats	13

Faculty of Law (Part-Time)

Areas of Research	Number of Seats
Economics	02
Law	10
Total Seats	12

Faculty of Science (Part-Time)

Areas of Research	Number of Seats
Life Science	01
Physics	04
Chemistry	07
Total Seats	12

Faculty of Architecture & Planning (Part-Time)

Areas of Research	Number of Seats
Architecture (Urban Planning, Urban Design, Nature Based Solutions, Environmental Management)	03
Total Seats	03

Faculty of Management (For Part-Time Only)

Areas of Research	Number of Seats
Economics and Finance & Accounting	03
Marketing	01
Information Management and Operations Management & Decision Science	01
Human Resource Management and OB & Communication	01
Strategy and Family Business & Entrepreneurship	01
Total Seats	07