

TENTATIVE AREAS FOR PH.D. ADMISSIONS – 2025-26

Faculty of Technology and Engineering (Full-Time and Part-Time)

	Area	Number of Seats
Chemical Engineering	<ul style="list-style-type: none"> • Catalysis, Biofuels, Gasification & Pyrolysis • Abatement of Industrial Pollution, Nanotechnology for environmental applications, Advanced Oxidation Processes • Process Integration, Process Simulations, Process Design, Phase Equilibrium • Polymer Technology, polymers in drug delivery • Cleaner production, Green Chemical Engineering, Hydrogen Energy • Multiphase flow, Transport Phenomena, Process Optimization • Air quality monitoring, Climate change 	21
Civil Engineering	<ul style="list-style-type: none"> • 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 	18
Computer Engineering	<ul style="list-style-type: none"> • Machine Learning and Deep Learning, Generative AI, Optimization, Data and Web Mining, Natural Language Processing • Networks, D2D Communication, Wireless Networks • Network Security, Blockchain Technology, Cyber Security • Big Data Analytics, Community Detection and Prediction, Medical Image Processing, ML/DL, Graph mining • Human Computer Interaction (BCI and Eye Tracking), AR/VR, Audio and Speech Processing, Computer Vision • Internet of Things, Geospatial Data Analytics • Healthcare, Image Processing, Satellite Image Analysis 	42

	<ul style="list-style-type: none"> • Cloud computing and its applications, Quantum Computing, and Cyber Security • IoT and Wireless Networks • Audio and Speech Processing, Machine Learning, Information Retrieval Systems • Natural Language Processing, Machine Learning/Deep Learning, 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 	
Electrical Engineering	<ul style="list-style-type: none"> • Power Electronics Devices, Converters, Drives, and Power Quality Improvement, Artificial Intelligence based Power Electronic Systems • Electrical Power System Analysis; Power System Dynamics, Modelling, 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, etc. • Applications of IoT, Data Analytics, Load and Generation Forecasting in Electrical Engineering, etc. • Generation of Electricity by Waste Water Treatment, Applications of Plasma, Recent topics and innovation in Electrical Engineering • Power electronic converters, On-board and off-board electric vehicle charger, battery management system for electric vehicle, renewable integration with grid, generation of electricity by waste water treatment • Electrical Power Systems 	14
Electronics & Instrumentation Engineering	<ul style="list-style-type: none"> • Control Engineering, Soft computing Applications, Industrial Control System Design • Vision Systems, Deep Learning, Industrial Automation • Industrial Automation & Robotics, Biomedical Instrumentation, Industrial 	18

	<p>Applications of Machine Learning, Sensors & Measurement Techniques</p> <ul style="list-style-type: none"> • 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 	
Mechanical Engineering	<ul style="list-style-type: none"> • 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 	45
Electronics & Communication Engineering	<ul style="list-style-type: none"> • 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 	22

	<ul style="list-style-type: none"> • 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 	
Mathematics	• Mathematics	06
Humanities and Social Science	• Economics	02
	• English	01
Total Seats		189

Faculty of Pharmacy (For Full-Time& Part-Time)

Areas of Research	Number of Seats
Pharmaceutical Analysis	04
Pharmaceutical Chemistry	11
Pharmaceutics	04
Pharmacognosy	06
Pharmacology	09
Total Seats	34

Faculty of Law (For Full-Time& Part-Time)

Areas of Research	Number of Seats
Economics	02
Law	08
Total Seats	10

Faculty of Science (For Full-Time& Part-Time)

Areas of Research	Number of Seats
Life Science	09
Physics	04
Chemistry	06
Total Seats	19

Faculty of Architecture & Planning (For Full-Time & Part-Time)

Areas of Research	Number of Seats
Architecture (Urban Planning, Urban Design, Nature Based Solutions, Environmental Management)	02
Total Seats	02

Faculty of Management (For Full-Time Only)

Areas of Research	Number of Seats
Economics	03
Finance & Accounting	08
Marketing	04
Operations Management & Decision Science	04
Information Management	01
Human Resource Management	02
Strategy & Entrepreneurship	02
Total Seats	24

Faculty of Management (For Part-Time Only)

Areas of Research	Number of Seats
Economics	02
Finance & Accounting	08
Marketing	02
Operations Management & Decision Science	02
Human Resource Management	02
Strategy & Entrepreneurship	02
Total Seats	18