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

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 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	 Structural Engineering Construction Materials, Technology and Management Geo-Technical Engineering Geomatics Concrete Technology Transportation Engineering Water Resources Engineering Environmental Engineering 	20
	Machine Learning and Deep Learning	
Computer Engineering	 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 Cloud computing and its applications, Quantum Computing, and Cyber Security 	52

	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 Windows Communications Natural	
	 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	
	• Remote Sensing, Quantum Technology, AI	
	Security	
	• 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	
	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	
Electrical Engineering	Electric Vehicle Chargers, Battery	20
	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 convertors On board and	
	Power electronic converters, On-board and off hourd electric vehicle charger bettery.	
	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	

Electronics & Instrumentation Engineering	 Control Engineering, Soft computing Applications, Industrial Control System Design Vision Systems, Deep Learning, Industrial Automation Industrial Automation & Robotics, Biomedical Instrumentation, Industrial Applications of Machine Learning, Sensors & Measurement Techniques 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 	18
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 Microfluids Turbomachine Computational Fluid Dynamics and Heat Transfer Heat Exchangers Rarefied gas flow Production and Industrial Engineering 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 Supply Chain Management Quality Engineering and Management Design Engineering Stress Analysis Fracture Mechanics and Bio Mechanics Multibody Dynamics and Robotics Vibration and Condition monitoring of mechanical equipment Material Science 	46

	Smart Materials & Structures	
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, Computer Vision Machine Learning, Artificial Intelligence and Applications Cyber Physical System Digital Communication, Satellite Communication, Remote sensing and Applications Wireless, Networks, Internet of Things Analog and Mixed signal VLSI design Biological Process based analog circuits design, Chip design for healthcare device application 	21
Mathematics	Mathematics	09
Humanities and Social Science	• Economics	03
	Total Vacant Seats	210

Faculty of Pharmacy (Part-Time)

Areas of Research	No. of seats
Pharmaceutical Analysis	1
Pharmaceutical Chemistry	4
Pharmaceutics	2
Pharmacognosy	3
Total Vacant Seats	10

Faculty of Law (Part-Time)

Areas of Research	Number of Seats
Economics	02
Law	06
Total Vacant Seats	08

Faculty of Science (Part-Time)

Areas of Research	Number of Seats
Life Science	01
Physics	04
Chemistry	03
Total Vacant Seats	08

Faculty of Management (Part-Time)

Areas of Research	Number of Seats
Economics	02
Finance & Accounting	07
Marketing	01
Operations Management & Decision Science	03
Total Vacant Seats	13