TENTATIVE AREAS FOR PH.D. ADMISSIONS – 2024-2025

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

	Area	Number of Seats
Chemical Engineering	 Catalysis, Biofuels, Green Processes, Gasification & Pyrolysis Abatement of Industrial Pollution, Nanotechnology for environmental applications Process Integration, Process Simulations, Process Design, Phase Equilibrium Polymer Technology, polymers in drug delivery Green Chemical Engineering Wastewater Treatments Hydrogen Energy, Bio-fuels Multiphase flow, Transport Phenomena 	19
Civil Engineering	 Structural Engineering Construction Materials, Technology and Management Geo-Technical Engineering Geomatics Concrete Technology 	17
	r	
Computer Engineering	 Machine Learning and Deep Learning, 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 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 	69
Electrical Engineering	 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 	09

	 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 	
Electronics & Instrumentation Engineering	 Control Engineering, Soft computing Applications, Industrial Control System Design Industrial Automation & Robotics, Biomedical Instrumentation, Industrial Applications of Machine Learning, Sensors & Measurement Techniques Image and Signal Processing Embedded system for automation, Power electronics 	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 Microfluidics Turbomachine Computational Fluid Dynamics and Heat Transfer Heat Exchangers Rarefied gas flow Manufacturing Engineering Additive Manufacturing, Sustainable manufacturing Metal Joining Metal Casting Microwave based melting Friction stir processing Sustainable Machining Sheet Metal Forming Machine Learning and Manufacturing Advanced Materials Processing and Characterization of Composite Materials Production and Industrial Engineering 	39

	 Quality Engineering Design Engineering Stress Analysis Finite Element Analysis Fracture Mechanics and Bio Mechanics Robotics Vibration Condition monitoring of mechanical equipment 	
Electronics & Communication Engineering	 VLSI Design, Test and Verification Embedded Systems Wireless Communication and Networking Signal and Image Processing Machine Learning and Computer Vision Cyber Physical System 	24
Mathematics	Mathematics	09
Humanities and Social	Economics	03
Science	English	01
	Total Seats	208

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

Areas of Research	Number of Seats
Pharmaceutical Analysis	10
Pharmaceutical Chemistry	18
Pharmaceutics	8
Pharmacognosy	9
Pharmacology	10
Total Seats	55

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

Areas of Research	Number of Seats
Environmental Law	01
Economics	02
Constitution, Administrative Law & Human Rights	01
Political Science	02
Total Seats	06

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

Areas of Research	Number of Seats
Life Science	8
Physics	6
Chemistry	10
Total Seats	24

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)	05
Total Seats	05

Faculty of Management (For Full-Time Only)

Areas of Research	Total Number of Seats
Economics	03
Finance & Accounting	07
Marketing	05
Operations Management & Decision	02
Science	
Information Management	01
Total Seats	17

Faculty of Management (For Part-Time Only)

Areas of Research	Number of Seats
Economics	02
Finance & Accounting	07
Marketing	02
Operations Management & Decision	01
Science	
Total Seats	09