TENTATIVE AREAS FOR PH.D. ADMISSIONS – 2026-27

Faculty of Technology and Engineering (Full-Time and 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 • Healthcare, Image Processing, Satellite Image Analysis • Cloud computing and its applications, Quantum Computing, and Cyber Security	40

	• 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, 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	23

	• Optimization and Intelligent techniques in Power Systems, Smart Grid • Design, Modelling, Performance analysis, and Optimization of Conventional and Advanced Electrical Machines	
Electronics & Instrumentation Engineering	• 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	47

	• Solar Energy Systems, Refrigeration and Air Conditioning, Boiling Heat Transfer • Machine Design, Vibration, Smart Materials & Structures • 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 (For Full-Time& Part-Time)

Areas of Research	Number of Seats
Pharmaceutical Analysis	03
Pharmaceutical Chemistry	07
Pharmaceutics	02
Pharmacognosy	01
Pharmacology	09
Total Seats	**22**

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

Areas of Research	Number of Seats
Economics	02
Law	01
Total Seats	**03**

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

Areas of Research	Number of Seats
Life Science	08
Physics	04
Chemistry	08
Total Seats	**20**

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	04
Finance & Accounting	06
Marketing	03
Operations Management & Decision Science	03
Information Management	01
Human Resource Management	01
Strategy & Entrepreneurship	01
Total Seats	**19**

Faculty of Management (For Part-Time Only)

Areas of Research	Number of Seats
Economics	02
Finance & Accounting	05
Marketing	02
Information Management	01
Operations Management & Decision Science	02
Total Seats	**12**