SPECIALIZATIONS AND DOMAINS

Date: 02.04.2025

SNo.	Department	Specialization	Domain Expertise to guide research scholars
			Foundation Engineering
		Geo-Technical Engineering	Soil Mechanics and Ground Improvement
			Earthquake Geotechnical Engineering
			Slope Stability and Landslide Engineering
			Geo-environmental Engineering
			Pavement Geotechnics
			Offshore and Marine Geotechnics
			Underground and Tunnelling Engineering
			Advanced Concrete Technology
			Structural Dynamics and Earthquake Engineering
			Bridge Engineering
			Tall and Special Structures
		Ctm. strans1	Structural Rehabilitation and Retrofitting
		Structural Engineering	Finite Element Analysis (FEA) and Computational
		Liigineering	Mechanics
			Precast and Prefabricated Structures
			Performance-Based Structural Engineering
	CIVIL		Sustainable and Smart Structures
1			Offshore and Marine Structures
			Hydrological Modelling and Watershed
			Management River Engineering and Sediment Transport
		Hydraulics and Water Resources	
			Groundwater Hydrology and Management
			Hydraulic Structures and Dam Engineering
			Water Resources Planning and Management
			Climate Change Impact on Water Resources
			Irrigation and Drainage Engineering
			Coastal and Offshore Hydraulics
			Computational Fluid Dynamics (CFD) in Hydraulic Engineering
			Urban Water Systems and Smart Water
			Technologies
		Environmental Engineering	Water and Wastewater Treatment
			Air Pollution and Control Technologies
			Solid and Hazardous Waste Management
			Environmental Impact Assessment (EIA) and
			Sustainability
			Groundwater Contamination and Remediation

			Climate Change and Its Impact on Civil
			Infrastructure
			Urban Water Management and Smart Cities
			Renewable Energy and Environmental
			Sustainability Noise Pollution and Environmental Acoustics
			Industrial and Agricultural Pollution Control
		Power Systems	Smart grid
			Energy management
			Renewable Energy Integration
			Soft computing Techniques
			Microgrid, Evolutionary Algorithms
			Power System protection
			Power System Security
			IOT applications in Power systems
			AI & ML and IoT
2	EEE		Power System Deregulation
			Fuzzy Logic applications in power system
			Power System protection
			Electrical Vehicles
			Power system operation and control
			FACTS and HVDC
		Power Electronics	Optimization Techniques
	МЕСН	Power Electronics	DC-DC Converters
			Multilevel Inverters
			Drives
		-	Applications of Optimization Techniques in
			Manufacturing
		CAD/CAM and	Composite materials for manufacturing
		Manufacturing	Scheduling and Soft Computing
		Engineering	Flexible manufacturing systems
			Reconfigurable Manufacturing systems
3			Composite Materials
		Machine Design	Composite Structures
		Thermal Engineering	Alternative fuels
			IC Engines
			CFD analysis
			PCM materials
			Energy Conservation and storage systems
	ECE	Communication	Wireless Communications
			Ad hoc Networks
			Antenna Design
4			5G/6G Technologies
			Secured Communications
		Signal and Image Processing	Biomedical Image Processing
			Image Processing applications
			Signal Processing applications

			Remote Sensing
			Video Analysis
			VLSI Architecture
			Cryptographic Hardware
		VLSI System Design	ASIC/FPGA Design
		V EST System Besign	Low Power VLSI
			Quantum Physics
			Internet of Things
			AI in Embedded Systems
		Embedded Systems	Edge Computing
			Robotics and Cybersecurity
			Tiny ML
			Artificial Intelligence
			Block Chain Technology
			Cloud Computing and Distributed Systems Computer Networks and Wireless
			Communications
			Computer Vision
			Computational Intelligence
5	CSE	CSE	Cyber Security and Cryptography
	CSL	CBL	Data Science and Big Data Analytics
			High Performance Computing
			Internet of Things and Edge Computing
			Machine Learning
			Programming Languages and System Software
			Quantum Computing
			Software Engineering
			American Literature
			British Literature
	Humanities and Sciences (ENGLISH)	English Language and Literature	Comparative Literature
			Cultural Studies
			Diasporic Literature
			English Language Teaching
			Indian English Literature
	Humanities and		Indian English Electatore
6	Sciences (CHEMISTRY)	Chemistry	Polymer Chemistry
		_	
	Humanities and Sciences (MATHEMATICS)	Mathematics	Heat and Mass Transfer
			Fluid Dynamics
			Computational Fluid Dynamics
	Humanities and Sciences (PHYSICS)	Physics	Material Science
			Photonics
			Atmospheric Science
	MBA	Finance	Behavioural Finance
7			Equity Research
/			Finance in Technology
			Mutual funds

			Digital Finance
			Bank Management
		Human Resource	Work life Balance
			Employee Engagement
			Employee performance Management
			Organizational culture and change
			Artificial Intelligence and Hr Analytics
			Strategic Leadership
			Customer Relationship Management
		Maulzatina	Services Marketing
		Marketing	Brand Management
			Retail Marketing
	MCA	Computer Science	Artificial Intelligence
			Machine Learning
8			Software Engineering
			Computer Networks
			Internet of Things
9	EDUCATION	Education	Education
			Wide Hybridization
	AGRICULTURE	Genetics & Plant Breeding	Breeding & Molecular Biology (Seed
10			Improvement)
			Tissue Culture
		Soil Science & Agricultural Chemistry	C TE TE IN AN AN
			Soil Fertility and Plant Nutrition
		Plant Physiology	Salinity & Water stress

REGISTRAR