

NIT KURUKSHETRA
Ph.D. Slots for Admission in Ph.D. Programme for Even Semester AY 2024-25

DEPARTMENT OF MECHANICAL ENGINEERING			
S..No	Name of the Faculty Member & Designation	Areas of Specialization	No. Of slots to be offered for Even Sem. of AY 2024-25
1.	Dr N K Singh, Associate Professor	CFD, LES, DNS, Heat Transfer, Nuclear Engg	3
2.	Dr Ajai Jain	Design and operation of Manufacturing systems, Integration of process planning and scheduling, CAPP, CAM, CIM, Advanced Manufacturing	3
3.	Dr. Gian Bhushan, Professor	Tribology, Fluid Engg., CAE Materials	2
4.	Dr Ravi Pratap Singh	Hybrid Machining Processes, Smart , Additive Manufacturing, Advanced Manufacturing	2
5.	Dr. Mukesh Kumar	Supply chain management, Modern technology-driven sustainable supply chains, Inventory management model in the supply chain, and Circular economy enable supply chain management.	2
6.	Dr. Rajeev Rathi	Industry 4., Lean Six Sigma, Supply Chain Management 4., Lean and Green Manufacturing	2
7.	Dr. Sandeep Singhal , Associate Professor	Hybrid Machining Processes, Smart , Additive Manufacturing, Advanced Manufacturing, SCM, ERP, Product Design, facility planning, Entrepreneurship	2
8.	Dr. P. C.Tewari, Professor	Performance Evaluation and Optimization, System Behavioral Analysis, Decision Support System, Maintenance Resource Allocation, Quality, Reliability, Availability and Maintainability, Quality Function Deployment	2
9.	Dr. Dilbagh Panchal	Quality, Reliability and Maintenance Engineering, Supply Chain Management and Logistics, Fuzzy Decision Analytics (MCDM), Metaheuristic algorithms for optimization.	2

10.	Prof. Dixit Garg	Quality, Supply Chain Management and Logistics,	5
11.	Prof. Punit Kumar, Professor	Tribology , rotor dynamics, vibrations, active magnetic bearings, Robotics	4
12.	Dr. V S Nagendra Reddy B	Compliant Mechanisms, FEM, Solid Mechanics	2
13.	Dr. Manoj Kumar Sinha	Sustainable grinding, Laser-assisted Machining, Synthesis & characterization of MMCs	2
14.	Dr. Vikas Kumar (D)	Mechanical Vibration, Human Vibration, Dynamics of machines and components, Condition Monitoring, FEA, Vibration in materials and manufacturing processes.	2
15.	Dr. Vikas Kumar (PI)	Non-Conventional Machining, Friction Stir welding and Processing, Composite Fabrication and characterization, Cladding, Incremental Sheet Forming, Process Optimization	3
16.	Dr. P.K. Saini, Professor	Noise Mapping, Noise Control	2
17.	Dr. Pankaj Chandna	Advanced Machining Processes, Operations Management, Industry 4., Supply Chain Management	2
18.	Dr. Manoj Kumar Gupta	Machine Design, Tribology, Condition Monitoring, Mechanical Vibrations, Materials, CAD, FEM, Renewable Energy systems, Modern Machining Methods	3
19.	Dr. Satnam Singh	CAD, Robotics, Machine Design, Characterization and analysis of Material Characteristics for FML's, FRPs and Metal matrix composites	4
DEPARTMENT OF COMPUTER ENGINEERING			
1.	Dr. Mayank Dave, Professor	Computer Networks, Internet of Things, Software Defined Networking, Wireless Sensor Networks, Mobile Computing,	2
2.	Dr. Jitender Kumar Chhabra, Professor	Cloud Computing, Pervasive Computing, Nature Inspired Computing, Soft Computing, Block Chain Technology,	2
3.	Dr. Sanjay Kumar Jain, Professor	Information Security, Cyber Security, Web Security, Cloud Security, IoT Security, Adhoc Network Security, WSN Security,	1
4.	Dr. Rajesh Kumar Aggarwal, Professor	Security in, Key Management in WSN, Online Social Networks,	1

5.	Dr. Priyanka Ahlawat, Assistant Professor	Image Processing, Signal Processing, Information Retrieval, Data Mining, Data Analytics, Data science, Pattern Recognition, Biometrics, Machine Learning, Affective Computing, Bio-Informatics, Multimedia Analysis, Software Engineering, Computer Vision	4
6.	Dr. Mohit Dua, Assistant Professor		2
7.	Dr. Ritu Garg, Assistant Professor		2
8.	Dr. Vikram Singh, Assistant Professor		2
9.	Dr. Mahendra Kumar Murmu, Assistant Professor		2
10.	Dr. Vijay Verma, Assistant Professor		4
11.	Dr. Ankit Kumar Jain, Assistant Professor		2
12.	Dr. Anoop Kumar Patel, Assistant Professor		4
13.	Dr. Santosh Kumar, Assistant Professor		4
14.	Dr. Kriti Bhushan, Assistant Professor		4
15.	Dr. Parveen Kumar, Assistant Professor		8
16.	Dr. Niyati Baliyan, Assistant Professor		3
17.	Dr. Sushil Kumar, Assistant Professor		4
18.	Dr. Kuldeep Kumar, Assistant Professor		1
19.	Dr. Yogita, Assistant Professor		4

20.	Dr. Lov Kumar, Assistant Professor		4
21.	Dr. Abhilasha Sharma, Assistant Professor		8
22.	Dr. Pratishtha Verma, Assistant Professor		8
23.	Dr. Vishwas Rathi, Assistant Professor		8
24.	Dr. Himansu Sekhar Pattanayak, Assistant Professor		8
25.	Dr. Banhi Sanyal, Assistant Professor		8
26.	Dr. Shweta Sharma, Assistant Professor		8
27.	Dr. Sweeti Sah, Assistant Professor		8
28.	Dr. Vaibhav Agarwal, Assistant Professor		8
29.	Dr. Amandeep Kaur, Assistant Professor		8
30.	Dr. Punit Kumar, Assistant Professor		8

DEPARTMENT OF ELECTRICAL ENGINEERING

1.	Dr. Bhanu Pratap	Renewable Energy, Electric vehicles, Robust & Adaptive Control Systems, etc.	4
2.	Dr. V. G. Durgarao Rayudu	Control Systems	4
3.	Saurabh Chanana	Power System	2
4.	Dr. Monika Mittal	Renewable energy, Signal Processing applications in Controls	4

5.	Dr. Sandeep Kakran	Power system, Energy management in microgrid, Load frequency control etc	2
6.	Dr. Rahul Sharma	Power Electronics, Microgrids, Renewable Energy Systems, Electric Vehicles	3
7.	Dr. Kiran Kumar J	Renewable Energy and Power Electronics and Drives	3
8.	Dr. Muralidhar Killi,	Photovoltaic Systems, Power Electronic converter Circuits and Control and Energy Storage Devices for EV	1
9.	Dr. Rajesh Kumar	Control Systems, Soft Computing, Artificial Neural Networks and Optimization	1
10.	Dr. Pradeep Kumar	Power Systems	6
11.	Dr. Ashwani Kumar	Power Systems, Renewable Energy Integration, Micro grids and DGs	1
12.	Dr. Sathans	Intelligent Control and Renewable Energy Systems, Microgrid control and energy management	4
13.	Dr. Shivam	Control Issues and operation of Hybrid Microgrid with Renewable Energy Sources and Electric Vehicles and Power converter Topologies	1
14.	Dr. Sudipta Ghosh	Power system	7
15.	Dr. Shashi Bhushan Singh	Power quality, renewable energy, electric vehicles	6
16.	Dr. Amit Kumar	Power System	6
17.	Dr. Anil Kumar Dahiya	Power system renewable energy, FACTs devices	8
18.	Dr. J S Lather	Control Systems, Power Systems, Microgrids	4
19.	Dr. Shelly Vadhera	Power Systems & Renewable Energy systems	4
20.	Dr. Jyoti Ohri	Control , Power Quality , Robotics	5
21.	Dr. Yash Pal	Renewable Energy Sources, Power Quality, Custom Power Devices, Power Electronics and Drives	5
22.	Dr. Ratna Dahiya	Microgrid control, Power System stability, FACTS controllers in distribution systems	6
23.	Dr. G L Pahuja	Reliability Engineering in Electrical Systems	1

DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING

1.	Dr. B.J. Singh, Prof.	Wireless Networks, Wireless Communication	8
2.	Dr. R.K. Sharma, Prof.	Embedded Systems and Low Power Design	2
3.	Dr. O.P. Sahu, Prof.	Digital Signal Processing Communication Systems	6
4.	Dr. Umesh Ghanekar, Prof.	Image Processing	4
5.	Dr. Rajoo Pandey, Prof	Communication Systems and Signal Processing	1
6.	Dr. Vikas Mittal, Assoc Prof.	Signal and Image Processing	3.5
7.	Dr. N.P. Singh, Assoc. Prof.	Wireless Communications 5G/6G Technologies	5
8.	Dr. Vrinda Gupta, Assoc..Prof.	Wireless Sensor Networks/ Wireless Communication/Internet of Things/ Cryptography	6
9.	Dr. Arvind Kumar, Assoc Prof	Communication Systems Signal Processing Antenna Design	6
10.	Dr. Rajender Kumar, Asst. Prof	Wireless Network IOT/ CRN Optimization Tech.	5
11.	Dr. Poonam Jindal, Asst. Prof.	Wireless Network Security Wireless Communication, quantum key encryption	7
12.	Dr. Gaurav Verma, Asst. Prof.	Wireless Communications, Machine Learning and Deep learning and Applications, NOMA, 5G/6G, RSMA Wireless Sensor Networks Semiconductor Devices Low power VLSI Design, Digital and Image Signal Processing etc..	4
13.	Dr. Pankaj Verma, Asst. Prof	Machine learning & AI future generation communication systems Wireless & Optical Communication, IoT, Signal Processing, VLSI Devices	8
14.	Dr. Gaurav Saini, Asst. Prof	VLSI Design Nanoscale Devices	2
15.	Dr. T.N. Sasamal, Asst. Prof.	Embedded Computing Quantum Architecture, QCA Design, Low Power digital design, Reconfigurable Computing	2

16.	Dr. Chhagan, Asst. Prof.	Cognitive Radio Networks, NOMA Digital Communication, Microwave Engg. Wireless Sensor Networks, Wireless communications, MIMO Systems Next Generation of communication systems and IoT.	8
17.	Dr. Ashutosh Nandi, Asst. Prof.	Microelectronics & VLSI	8
18.	Dr. Shweta Meena, Asst. Prof.	Microelectronics & VLSI Design, Molecular Engg. Of 2D materials ,Energy storage (Ion batteries and hydrogen storage) and spintronic based devices.	7
19.	Dr. Dheeraj Kumar Sharma, Asst. Prof.	Cryptography & Communication Systems, VLSI Design, IoT, Cyber Physical Systems, Stream Ciphers and their Software Implementation, Algebraic Attack, Cryptographic Boolean Function, Hardware Implementation	8
20.	Dr. Karamdeep Singh, Asst. Prof.	Fiber Optics, Microwave Photonics, Optical Signal Processing, Multi mode photonics, Optical Communications, Wireless Optical Communication, Cryptography, Optical Amplifiers, VLSI Design, Signal Processing, IoT	8
21.	Dr. B.Bhaskara Rao, Asst. Prof.	Digital Signal Processing	2
22.	Dr. Hemant Sharma, Asst. Prof.	Digital Signal & Image Processing, , Machine Learning Biomedical Signal Processing	8
23.	Dr. Ghanapriya Singh, Asst. Prof.	Signal & Image Processing machine learning, Deep Learning, Computer Vision	8
24.	Dr. Dharmendra Singh Yadav	VLSI and Power Design	8

DEPARTMENT OF CIVIL ENGINEERING

1.	Dr. Baldev Setia	Water Resources Engg	1
2.	Dr. H.K. Sharma	Structural Engineering	2
3.	Dr. K.K. Singh	Water Resources Engg.	2
4.	Dr. Arun Goel	Water Resources Engg	2
5.	Dr. S.K. Patidar	Environmental Engg.	1

6.	Dr. Ashwani Jain	Geotechnical Engineering	2
7.	Dr. Mahesh Pal	Remote Sensing	1
8.	Dr. Surinder Deswal	Environmental Engg.	1
9.	Dr. V.P. Singh	Structural Engineering	2
10.	Dr. Praveen Aggarwal	Transportation Engg.	2
11.	Dr. Saraswati Setia	Structural / Seismic	3
12.	Dr. Paratibha Aggarwal	Concrete / Structural	5
13.	Dr. N.K. Tiwari	Water Resources & Geotechnical Engineering	4
14.	Dr. Babita Saini	Concrete (Exp.& Analytical), Steel	1
15.	Dr. H.D.Chalak	Structural Engineering	1
16.	Dr. A.K. Prabhakar	Water Resources Engg.	2
17.	Dr. J.S.Yadav	Geotechnical Engineering	3
18.	Dr. Shweta Rathi	Environmental Engg	2
19.	Dr. Pankaj Munjal	Structural Engineering	5
20.	Dr. Yogesh Aggarwal	Structural Engineering	7
DEPARTMENT OF PHYSICS			
1.	Dr. Ashavani Kumar Professor	High Energy Physics/Energy materials/ Microwave absorption and EMI Sheilding Materials	1
2.	Dr. Neena Jaggi Professor	Spectroscopes, Nanomaterials based on Carbon Nanotechnology	1
3.	Dr. Prakash Chand Assistant Professor	Energy Storage Devices Supercapacitor	1
4.	Dr. Y. Dwivedi Assistant Professor	Laser Spectroscopy, Material Science, Photonics	1
5.	Dr. A.K.Tripathi	Semiconductorm, Nano-Materials	1

	Assistant Professor		
6.	Dr. K.L.Ganapathi Assistant Professor	Semiconductor Devices Quantum Devices	1
7.	Dr. Tanmay Maji Assistant Professor	Theoretical High Energy, Quantum Chromodynamics	1
8.	Dr.Than Singh Saini Assistant Professor	Nonlinear Fiber Optics, Si-core optical fibers	1
DEPARTMENT OF CHEMISTRY			
1.	Dr. Ram Kumar Tittal	Organic Chemistry	2
2.	Dr. Amilan Jose D	Inorganic Chemistry, Analytical Chemistry, Nanomaterials	1
3.	Dr. Ghule Vikas D	Organic Chemistry, Computational Chemistry	1
4.	Dr. M. Senthilkumar	Organic Chemistry, Inorganic Chemistry	2
5.	Dr. Avijit Kumar Paul	Inorganic Chemistry	1
DEPARTMENT OF MATHEMATICS			
1.	Dr. Paras Ram	Fluid Dynamics (MHD, FHD)	2
2.	Dr. A.S.V Ravi Kanth	Numerical Analysis	1
3.	Dr. Amit Prakash	Numerical Analysis	2
4.	Dr. Surender Ontela	Computational Fluid Dynamics	1
5.	Dr. Raghvendra	Numerical Analysis	1
DEPARTMENT OF HUM & SS			
1.	Dr. Kiran Mor	Economics & Management	1
2.	Dr. Geeta Sachdeva	Management	2
3.	Dr. Shahida	English <ul style="list-style-type: none"> • Cultural and Literary Studies • Gender and Sexuality Studies 	

		<ul style="list-style-type: none"> • Postcolonial Literature • Disability Studies • Comparative Literature 	5
4.	Dr. Rajesh Sharma	Economics; Health Economics; Public Health; Environment-Health; Epidemiology	1
DEPARTMENT OF COMPUTER APPLICATIONS			
1.	Dr. Sandeep Kumar Sood	Quantum Computing, Data Analytics, IoT, Information Security, Cloud Computing	1
2.	Dr. Kapil	Machine Learning, Quantum Computing, Wireless Sensor Networking	4
3.	Dr. Sarika Jain	Artificial Intelligence, Natural Language processing, Knowledge Engineering	3
4.	Dr. Munish Bhatia	IoT, Digital Twin, Quantum Computing, Artificial Intelligence	3
5.	Dr. Nidhi Gupta	Computer Vision, Pattern Recognition, Medical Imaging, Image Processing	5
6.	Dr. Anshu Parashar	Software Quality, ML/DL, Block Chain, Artificial Intelligence Quantum Computing, Cloud Computing/Security, AI for Sustainable Development	4
7.	Dr. S. Suresh	Machine Learning, Deep Learning, Cloud and Distributed Computing, Big Data Analytics, Theoretical Computer Science	6
DEPARTMENT OF BUSINESS ADMINISTRATION			
1.	Dr. Neeraj Kaushik	Marketing	3
2.	Dr. Mohd Firoz	Finance	3
3.	Dr. Chandra Sekhar	HRM & OB and Managerial Psychology	3
4.	Dr. Priyanka Sihag	HRM & OB	3
5.	Dr. Mohit Kumar Ojha	Finance	3

SCHOOL OF SVE			
1.	Dr. R.K. Sharma, Prof.	Embedded Systems and Low Power Design	2
2.	Dr. Gaurav Saini, Asst. Prof	VLSI Design Nanoscale Devices	2
3.	Dr. T.N. Sasamal, Asst. Prof.	Embedded Computing Quantum Architecture, QCA Design, Low Power digital design, Reconfigurable Computing	4
4.	Dr. Ashutosh Nandi, Asst. Prof.	Microelectronics & VLSI	7.5
5.	Dr. Shweta Meena, Asst. Prof.	Microelectronics & VLSI Design, Molecular Engg. of 2D materials, Energy storage (Ion batteries and hydrogen storage) and spintronic based devices.	8
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