NATIONAL INSTITUTE OF TECHNOLOGY
KURUKSHETRA-136119

Tentative Ph.D. Slots for Admission in Ph.D. Programme for Odd Semester AY 2025-26

DEPARTMENT OF MECHANICAL ENGINEERING			
Sr. No.	**Name of the Faculty Member & Designation**	**Areas of Specialization**	**No. of tentative slots to be offered for Odd Sem. of AY 2025-26**
1	Dr. Gian Bhushan, Professor	Tribology, CAE, Fluid Engg	01
2	Dr. Satnam Singh, Assistant Professor	CAD / CAM, Tribology, Composites fabrication and testing	01
3	Dr. Dilbagh Panchal, Assistant Professor	Quality Reliability and Maintenance Engineering, Supply Chain Management, Fuzzy Decision Science, Data Analytics, Application of Artificial Intelligence and Machine Learning.	02
4	Dr. Manoj Kumar Sinha, Assistant Professor	Sustainable Grinding/Machining, Synthesis & Characterisation of MMCs, Surface Engineering	02
5	Dr. Rajeev Rathi, Assistant Professor	Sustainability, Lean Six Sigma, Industry 4.0, Quality 4.0, SCM 4.0	05
6	Dr. Gulshan Sachdeva, Assistant Professor	Refrigeration, Air-conditioning, Heat Transfer, Solar Energy, CFD	02
7	Dr. Mukesh Kumar, Assistant Professor	Advanced supply chain management, Industry 4.0-enabled supply chain, circular economy decouples with Industry 4.0-enabled SC models, quality management in SC, sustainability aspects in Circular SCs.	02
8	Dr. Sandeep Singhal, Associate Professor	Industrial Engg.,ERP,Composites,Sustainability,SCM,Machining,Quality Management and assurance	02
9	Dr. Ravi Pratap Singh, Assistant Professor	Hybrid Machining, Additive Manufacturing, Advanced Machining, Smart Materials	02
10	Dr. Dinesh W Rathod, Assistant Professor	Materials and Manufacturing, Welding engineering and technology, Welding metallurgy, Directed energy deposition for special metals, WAAM of high strength Al, Cu and Ti alloys, Brazing and Brazing torches, low dilution welding technique, Residual stresses quantification, mechanical, structural and metallurgical characterization.	02
11	Dr. Ranjeet Kumar, Assistant Professor	Manufacturing Automation, Additive Manufacturing, CAD Programming	02
12	Dr. Nirmal Kant Singh Associate Professor	Computational Fluid Dynamics, LES, DNS, turbulent and transitional flows, heat transfer	03
13	Dr. Pankaj Sahlot Assistant Professor	Additive Manufacturing/3D Printing, Welding/Friction Stir Welding, Mechanical Testing and Microstructural Characterization of Advanced Materials, Wear	02

14	Dr. Ajai Jain, Professor	Production and Industrial Engineering	02
15	Dr. Vikas Kumar (ME) Assistant Professor	Mechanical Vibration, Human Vibration, Ergonomics, CAE, Condition Monitoring	02
16	Dr. Rajneesh, Assistant Professor	Thermal Engineering, Fuels and Combustion	01
17	Dr. Parveen Kumar Saini, Professor	Noise Mapping, Noise Control	02
18	Dr. Manoj Kumar Gupta, Assistant Professor	Machine Design, Tribology, Condition Monitoring, Mechanical Vibrations, Materials, CAD, Renewable Energy systems, Modern Machining Methods	02
19	Dr. Chandrashekara M, Assistant Professor	Thermal Engineering, Renewable Energy, Solar energy	04
20	Dr. V S Nagendra Reddy B., Assistant Professor	FEM, Compliant Mechanisms, Topology Optimization	01
21	Dr. Vikas Kumar, PIE, Assistant Professor	Advanced Machining, Incremental Sheet Forming, Material Fabrication and Characterization, Friction Stir Welding	02
DEPARTMENT OF COMPUTER ENGINEERING			
1.	Dr. Mayank Dave, Professor	Computer Networks, Internet of Things, Software Defined Networking, Wireless Sensor Networks, Mobile Computing, Cloud Computing, Pervasive Computing, Nature Inspired Computing, Soft Computing, Block Chain Technology, Information Security, Cyber Security, Web Security, Cloud Security, IoT Security, Adhoc Network Security, WSN Security, Security in, Key Management in WSN, Online Social Networks, 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	03
2.	Dr. Jitender Kumar Chhabra, Professor		03
3.	Dr. Sanjay Kumar Jain, Professor		01
4.	Dr. Rajesh Kumar Aggarwal, Professor		01
5.	Dr. Priyanka Ahlawat, Assistant Professor		04
6.	Dr. Mohit Dua, Assistant Professor		05
7.	Dr. Ritu Garg, Assistant Professor		04
8.	Dr. Vikram Singh, Assistant Professor		03
9.	Dr. Mahendra Kumar Murmu, Assistant Professor		03
10.	Dr. Vijay Verma, Assistant Professor		08
11.	Dr. Ankit Kumar Jain, Assistant Professor		03

12.	Dr. Anoop Kumar Patel, Assistant Professor		07
13.	Dr. Santosh Kumar, Assistant Professor		04
14.	Dr. Kriti Bhushan, Assistant Professor		04
15.	Dr. Parveen Kumar, Assistant Professor		08
16.	Dr. Niyati Baliyan, Assistant Professor		04
17.	Dr. Sushil Kumar, Assistant Professor		05
18.	Dr. Kuldeep Kumar, Assistant Professor		06
19.	Dr. Lov Kumar, Assistant Professor		08
20.	Dr. Abhilasha Sharma, Assistant Professor		08
21.	Dr. Pratishtha Verma, Assistant Professor		08
22.	Dr. Vishwas Rathi, Assistant Professor		08
23.	Dr. Himansu Sekhar Pattanayak, Assistant Professor		08
24.	Dr. Banhi Sanyal, Assistant Professor		08
25.	Dr. Shweta Sharma, Assistant Professor		08
26.	Dr. Sweeti Sah, Assistant Professor		08
27.	Dr. Vaibhav Agarwal, Assistant Professor		08
28.	Dr. Amandeep Kaur, Assistant Professor		08
29.	Dr. Punit Kumar, Assistant Professor		08
DEPARTMENT OF ELECTRICAL ENGINEERING			
1.	Dr. Bhanu Pratap	Renewable Energy, Electric vehicles, Robust & Adaptive Control Systems, etc.	04
2.	Dr. V. G. Durgarao Rayudu	Control Systems	02

3.	Dr. Saurabh Chanana	Power System	02
4.	Dr Monika Mittal	Renewable energy, Signal Processing applications in Controls	04
5.	Dr. Sandeep Kakran	Power system, Energy management in microgrid, Load frequency control etc	02
6.	Dr. Rahul Sharma	Power Electronics, Microgrids, Renewable Energy Systems, Electric Vehicles	03
7.	Dr. Kiran Kumar J	Renewable Energy and Power Electronics and Drives	02
8.	Dr. Muralidhar Killi,	Photovoltaic Systems, Power Electronic converter Circuits and Control and Energy Storage Devices for EV	02
9.	Dr. Rajesh Kumar	Control Systems, Soft Computing, Artificial Neural Networks and Optimization	01
10.	Dr. Pradeep Kumar	Power Systems	05
11.	Dr. Ashwani Kumar	Power Systems, Renewable Energy Integration, Micro grids and DGs	02
12.	Dr. Sathans	Intelligent Control and Renewable Energy Systems, Microgrid control and energy management	04
13.	Dr. Shivam	Control Issues and operation of Hybrid Microgrid with Renewable Energy Sources and Electric Vehicles and Power converter Topologies	05
14.	Dr. Sudipta Ghosh	Power system	07
15.	Dr. Shashi Bhushan Singh	Power quality, renewable energy, electric vehicles	06
16.	Dr. Amit Kumar	Power System	06
17.	Dr. Anil Kumar Dahiya	Power system renewable energy, FACTs devices	07
18.	Dr. J S Lather	Control Systems, Power Systems, Microgrids	05
19.	Dr. Shelly Vadhera	Power Systems & Renewable Energy systems	04
20.	Dr. Jyoti Ohri	Control , Power Quality , Robotics	05
21.	Dr. Yash Pal	Renewable Energy Sources, Power Quality, Custom Power Devices, Power Electronics and Drives	06
22.	Dr. Ratna Dahiya	Microgrid control, Power System stability, FACTS controllers in distribution systems	07
23.	Dr. G L Pahuja	Reliability Engineering in Electrical Systems	01
DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING			
1.	Dr. B.J. Singh, Prof.	Wireless Networks, Wireless Communication	08
2.	Dr. R.K. Sharma, Prof.	Embedded Systems and Low Power Design	02
3.	Dr. O.P. Sahu, Prof.	Digital Signal Processing Communication Systems	06
4.	Dr. Umesh Ghanekar, Prof.	Image Processing	02

5.	Dr. Rajoo Pandey, Prof	Communication Systems and Signal Processing	02
6.	Dr. Vikas Mittal, Assoc Prof.	Signal and Image Processing	3.5
7.	Dr. N.P. Singh, Assoc. Prof.	Wireless Communications 5G/6G Technologies	05
8.	Dr. Vrinda Gupta, Assoc..Prof.	Wireless Sensor Networks/ Wireless Communication/Internet of Things/ Cryptography	06
9.	Dr. Arvind Kumar, Assoc Prof	Communication Systems Signal Processing Antenna Design	07
10.	Dr. Rajender Kumar, Asst. Prof	Wireless Network IOT/ CRN Optimization Tech.	08
11.	Dr. Poonam Jindal, Asst. Prof.	Wireless Network Security Wireless Communication, quantum key encryption	07
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.	04
13.	Dr. Pankaj Verma, Asst. Prof	Machine learning & AI future generation communication systems Wireless & Optical Communication, IoT, Signal Processing, VLSI Devices	08
14.	Dr. Gaurav Saini, Asst. Prof	VLSI Design Nanoscale Devices	02
15.	Dr. T.N. Sasamal, Asst. Prof.	Embedded Computing Quantum Architecture, QCA Design, Low Power digital design, Reconfigurable Computing	03
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.	08
17.	Dr. Ashutosh Nandi, Asst. Prof.	Microelectronics & VLSI	06
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.	02
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	07
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	08
21.	Dr. B. Bhaskara Rao, Asst. Prof.	Digital Signal Processing	02
22.	Dr. Hemant Sharma, Asst. Prof.	Digital Signal & Image Processing, , Machine Learning Biomedical Signal Processing	08
23.	Dr. Ghanapriya Singh, Asst. Prof.	Signal & Image Processing machine learning, Deep Learning, Computer Vision	07

24.	Dr. Dharmendra Singh Yadav	VLSI and Power Design	7.5
Department Civil Engineering			
1.	Dr. Baldev Setia	Water Resources Engg	01
2.	Dr. H.K. Sharma	Structural Engineering	02
3.	Dr. K.K. Singh	Water Resources Engg.	00
4.	Dr. S.M. Gupta	-	00
5.	Dr. Arun Goel	Water Resources Engg	02
6.	Dr. S.K. Patidar	Environmental Engg.	00
7.	Dr. Ashwani Jain	Geotechnical Engineering	02
8.	Dr. Mahesh Pal	Remote Sensing	02
9.	Dr. Surinder Deswal	Environmental Engg.	00
10.	Dr. V.P. Singh	Structural Engineering	02
11.	Dr. Praveen Aggarwal	Transportation Engg.	02
12.	Dr. Saraswati Setia	Structural / Seismic	04
13.	Dr. Paratibha Aggarwal	Concrete / Structural	04
14.	Dr. N.K. Tiwari	Water Resources & Geotechnical Engineering	02
15.	Dr. Babita Saini	Concrete (Exp.& Analytical), Steel	00
16.	Dr. H.D.Chalak	Structural Engineering	02
17.	Dr. A.K. Prabhakar	Water Resources Engg.	02
18.	Dr. J.S.Yadav	Geotechnical Engineering	05
19.	Dr. Shweta Rathi	Environmental Engg	03
20.	Dr. Pankaj Munjal	Structural Engineering	04
21.	Dr. Yogesh Aggarwal	Structural Engineering	04
DEPARTMENT OF PHYSICS			
1.	Dr. Ashavani Kumar Professor	High Energy Physics/Energy materials/ Microwave absorption and EMI Sheilding Materials	00
2.	Dr. Neena Jaggi Professor	Spectroscopes, Nanomaterials based on Carbon Nanotechnology	01
3.	Dr. Prakash Chand Assistant Professor	Energy Storage Devices Supercapacitor	00

4.	Dr. Y. Dwivedi Assistant Professor	Laser Spectroscopey, Material Science, Photonics	00
5.	Dr. A.K.Tripathi Assistant Professor	Semiconductorm, Nano-Materials	01
6.	Dr. K.L.Ganapathi Assistant Professor	Semiconductor Devices Quantum Devices	01
7.	Dr. Tanmay Maji Assistant Professor	Theoretical High Energy, Quantum Chromodynamics	02
8.	Dr.Than Singh Saini Assistant Professor	Nonlinear Fiber Optics, Si-core optical fibers	01
DEPARTMENT OF CHEMISTRY			
1.	Dr. Minati Baral	-	00
2.	Dr. J.K. Kapoor	Heterocyclic , Macrocyclic Chemistry	00
3.	Dr. Chetti Prabhakar	Functional Organic Materials	00
4.	Dr. Ram Kumar Tittal	Organic Synthesis, Medicinal Chemistry	01
5.	Dr. Amilan Jose D	Inorganic Chemistry, Analytical Chemistry, Nanomaterials	00
6.	Dr. Ghule Vikas D	Organic Chemistry, Computational Chemistry	00
7.	Dr. M. Senthilkumar	Organic Chemistry, Inorganic Chemistry	02
8.	Dr. Avijit Kumar Paul	Inorganic Chemistry	01
DEPARTMENT OF MATHEMATICS			
1.	Dr. Paras Ram	Fluid Dynamics (MHD, FHD)	02
2.	Dr. A.S.V Ravi Kanth	Numerical Analysis	01
3.	Dr. Sarasvati Yadav	Special functions, Lie Theory, Quantum Algebras, Differential Equations, Fractional Differential Equations	01
4.	Dr. Amit Prakash	Numerical Analysis	01
5.	Dr. Surender Ontela	Computational Fluid Dynamics	01
6.	Dr. Raghvendra	Numerical Analysis	01
7.	Dr. M.M. Harshita	Numerical Analysis	01
DEPARTMENT OF HUM & SS			
1.	Dr. Kiran Mor	Economics & Management	01
2.	Dr. Geeta Sachdeva	Management	02
3.	Dr. Shabnam	Psychology	00
4.	Dr. Shahida	English • Cultural and Literary Studies	03

		• Gender and Sexuality Studies • Postcolonial Literature • Disability Studies • Comparative Literature	
5.	Dr. Rajesh Sharma	Economics; Health Economics; Public Health; Environment-Health; Epidemiology	01
DEPARTMENT OF COMPUTER APPLICATIONS			
1.	Dr. Sandeep Kumar Sood	Quantum Computing, Data Analytics, IoT, Information Security, Cloud Computing	03
2.	Dr. Kapil	Machine Learning, Quantum Computing, Wireless Sensor Networking	02
3.	Dr. Sarika Jain	Artificial Intelligence, Natural Language processing, Knowledge Engineering	03
4.	Dr. Munish Bhatia	IoT, Digital Twin, Quantum Computing, Artificial Intelligence	01
5.	Dr. Nidhi Gupta	Computer Vision, Pattern Recognition, Medical Imaging, Image Processing	04
6.	Dr. Anshu Parashar	Software Quality, ML/DL, Block Chain, Artificial Intelligence Quantum Computing, Cloud Computing/Security, AI for Sustainable Development	04
7.	Dr. S. Suresh	Machine Learning, Deep Learning, Cloud and Distributed Computing, Big Data Analytics, Theoretical Computer Science	03
DEPARTMENT OF BUSINESS ADMINISTRATION			
1.	Dr. Neeraj Kaushik	Marketing	02
2.	Dr. Mohd Firoz	Finance	05
3.	Dr. Chandra Sekhar	HRM & OB and Managerial Psychology	04
4.	Dr. Priyanka Sihag	HRM & OB	06
5.	Dr. Mohit Kumar Ojha	Finance	05

SCHOOL OF SVE			
1.	Dr. R.K. Sharma, Prof.	Embedded Systems and Low Power Design	02
2.	Dr. Gaurav Saini, Asst. Prof	VLSI Design Nanoscale Devices	02
3.	Dr. T.N. Sasamal, Asst. Prof.	Embedded Computing Quantum Architecture, QCA Design, Low Power digital design, Reconfigurable Computing	03

4.	Dr. Ashutosh Nandi, Asst. Prof.	Microelectronics & VLSI	06
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.	02
6.	Dr. Dharmendra Singh Yadav	VLSI and Power Design	7.5
7.	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	05

Visvesvaraya PhD Scheme

Title of Project	**Funding Agency**	**Department**	**No. of Slots**		**Area of Specialization**
			Full time	**Part time**	
Visvesvaraya PhD Scheme for Electronics and IT: Phase-II	Meit Y Government of India	Computer Engg.	01	-	ESDM/IT/IT enabled Services
		Electronics & Communication Engg.	01	-	
		School of VLSI Design and Embedded Systems	01	-	

Project seats

Deptt. / Schools	**No. of Slots**	**Title of Project**	**Area of Specialization**	**Funding Agency**	**Remaining Duration In years Approx.**
Computer	02	Information Security Education and Awareness (ISEA) Project Phase-III	Computer and Network Security	Ministry of Electronic and Information Technology (MeitY), Govt. of India	05