NIT KURUKSHETRA

Ph.D. Slots for Admission in Ph.D. Programme for Even Semester AY 2026-27

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 2026-27**
1.	Dr. Pankaj Chandna, Professor	Production and Industrial	02
2.	Dr. Ranjeet Kumar, Assistant Professor	Manufacturing Automation, Additive Manufacturing, CAD Programming	02
3.	Dr. V.K. Bajpai, Professor	Thermal Engineering	08
4.	Dr. V S Nagendra Reddy B., Assistant Professor	FEM, Compliant Mechanisms, Topology Optimization	02
5.	Dr. Pankaj Sahlot Assistant Professor	Additive Manufacturing/3D Printing, Welding/Friction Stir Welding, Mechanical Testing and Microstructural Characterization of Advanced Materials, Wear	02
6.	Dr. Sandeep Singhal, Associate Professor	Industrial Engg., ERP, Composites, Sustainability, SCM, Machining, Quality Management and assurance	06
7.	Dr. Nirmal Kant Singh Associate Professor	Computational Fluid Dynamics, LES, DNS, turbulent and transitional flows, heat transfer	03
8.	Dr. Dixit Garg, Professor	Industrial Engineering	02 can be offered as Co-

			supervisor
9.	Dr. P.K. Saini, Professor	Noise mapping, Noise Control	03
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.	01
11.	Dr. Manoj Kumar Gupta, Assistant Professor	Machine Design, Tribology, Condition Monitoring, Mechanical Vibrations, Materials, CAD, Renewable Energy systems, Modern Machining Methods	04
12.	Dr. Gulshan Sachdeva, Associate Professor	Refrigeration, Air-conditioning, Heat Transfer, Solar Energy, CFD	01
13.	Dr. Vikas Kumar, PIE, Assistant Professor	Advanced Machining, Incremental Sheet Forming, Material Fabrication and Characterization, Friction Stir Welding	03
14.	Dr. Ravi Pratap Singh, Assistant Professor	Hybrid Machining, Additive Manufacturing, Advanced Machining, Smart Materials	02
15.	Dr. Satnam Singh, Assistant Professor	Composites and Alloys, CAD and CAE	03
16.	Dr. Rajesh Kumar D, Assistant Professor	Design	01
17.	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.	04

18.	Dr. Rajeev Rathi, Assistant Professor	Sustainability, Lean Six Sigma, Industry 4.0, Quality 4.0, SCM 4.0	02
19.	Dr. Lalit Thakur, Assistant Professor	Composite Materials, Friction Stir Welding/Processing, Powder Metallurgy, Stir Casting, Surface Engineering, Tribology	03
20.	Dr. Manoj Kumar Sinha, Assistant Professor	Sustainable Grinding/Machining, Synthesis & Characterisation of MMCs, Surface Engineering	02
21.	Dr. Gian Bhushan, Professor	Tribology, CAE, Fluid Engg	02
22.	Dr. Vikas Kumar (ME) Assistant Professor	Human Vibration, Human Factors, Ergonomics, CAE, Condition Monitoring	03
23.	Dr. Ajai Jain, Professor	Production and Industrial Engineering	02
24.	Dr. Punit Kumar, Professor	Machine Design, Tribology, Rotor Dynamics, Active Magnetic Bearings	04
25.	Dr. Chandrashekara M, Assistant Professor	Thermal Engineering, Renewable Energy, Solar energy	05
26.	Dr. Avdhesh Yadav, Associate Professor	Thermal Engineering	06
27.	Dr. Rajesh Kumar, Assistant Professor	Thermal and Fluid Engineerign	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	02
2.	Dr. Jitender Kumar Chhabra, Professor		03
3.	Dr. Rajesh Kumar Aggarwal, Professor		04

4.	Dr. Ritu Garg, Associate Professor	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
5.	Dr. Priyanka Ahlawat, Assistant Professor		07
6.	Dr. Mohit Dua, Assistant Professor		08
7.	Dr. Vikram Singh, Assistant Professor		03
8.	Dr. Vijay Verma, Assistant Professor		04
9.	Dr. Ankit Kumar Jain, Assistant Professor		04
10.	Dr. Santosh Kumar, Assistant Professor		03
11.	Dr. Kriti Bhushan, Assistant Professor		04
12.	Dr. Parveen Kumar, Assistant Professor		06
13.	Dr. Niyati Baliyan, Assistant Professor		04
14.	Dr. Sushil Kumar, Assistant Professor		06
15.	Dr. Kuldeep Kumar, Assistant Professor		02
16.	Dr. Yogita, Assistant Professor		04
17.	Dr. Lov Kumar, Assistant Professor		06

18.	Dr. Abhilasha Sharma, Assistant Professor		07
19.	Dr. Pratishtha Verma, Assistant Professor		07
20.	Dr. Vishwas Rathi, Assistant Professor		06
21.	Dr. Himansu Sekhar Pattanayak, Assistant Professor		07
22.	Dr. Shweta Sharma, Assistant Professor		05
23.	Dr. Sweeti Sah, Assistant Professor		07
24.	Dr. Vaibhav Agarwal, Assistant Professor		08
25.	Dr. Amandeep Kaur, Assistant Professor		08
26.	Dr. Chilukamari Rajesh, Assistant Professor		06
27.	Dr. Vijay Kumar Sharma, Assistant Professor		08
DEPARTMENT OF ELECTRICAL ENGINEERING			
1.	Dr. Bhanu Pratap, Assistant Professor	Renewable Energy, Electric vehicles, Robust & Adaptive Control Systems, etc.	06
2.	Dr. V. G. Durgarao Rayudu, Assistant Professor	Control Systems	02

3.	Dr. Saurabh Chanana, Professor	Power System	02
4.	Dr Monika Mittal, Associate Professor	Renewable energy, Signal Processing applications in Controls	05
5.	Dr. Sandeep Kakran, Assistant Professor	Power system, Energy management in microgrid, Load frequency control etc	07
6.	Dr. Rahul Sharma, Assistant Professor	Power Electronics, Microgrids, Renewable Energy Systems, Electric Vehicles	04
7.	Dr. Kiran Kumar J, Assistant Professor	Renewable Energy and Power Electronics and Drives	02
8.	Dr. Muralidhar Killi, Assistant Professor	Photovoltaic Systems, Power Electronic converter Circuits and Control and Energy Storage Devices for EV	02
9.	Dr. Rajesh Kumar, Assistant Professor	Control Systems, Soft Computing, Artificial Neural Networks and Optimization	06
10.	Dr. Pradeep Kumar, Assistant Professor	Power Systems	06
11.	Dr. Sathans, Professor	Intelligent Control and Renewable Energy Systems, Microgrid control and energy management	05
12.	Dr. Shivam, Assistant Professor	Control Issues and operation of Hybrid Microgrid with Renewable Energy Sources and Electric Vehicles and Power converter Topologies	02
13.	Dr. Shashi Bhushan Singh, Assistant Professor	Power quality, renewable energy, electric vehicles	06
14.	Dr. Anil Kumar Dahiya, Associate Professor	Power system renewable energy, FACTs devices	07

15.	Dr. J S Lather, Professor	Control Systems, Power Systems, Microgrids	05
16.	Dr. Shelly Vadhera, Associate Professor	Power Systems & Renewable Energy systems	06
17.	Dr. Jyoti Ohri, Professor	Control , Power Quality , Robotics	04
18.	Dr. Yash Pal, Professor	Renewable Energy Sources, Power Quality, Custom Power Devices, Power Electronics and Drives	05
19.	Dr. Maneesh Kumar, Assistant Professor	Hybrid Microgrid, AI-ML applications in Power and Renewable Energy System, Robust and Adaptive Controller Design	04
20.	Y. Srinivasa Rao, Assistant Professor	Power Quality	02
21.	Vijay Kumar Singh, Assistant Professor	Control system, robotics	02
22.	Dr. VVSN Murty Vallem, Assistant Professor	Renewable Energy Sources, Energy Management and Dispatch, Microgrids, Distribution Systems, Voltage Stability, Power Systems	03
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING			
1.	Dr. B.J. Singh, Professor	Wireless Networks, Wireless Communication	04
2.	Dr. O.P. Sahu, Professor	Digital Signal Processing Communication Systems	07
3.	Dr. Rajoo Pandey, Professor	Communication Systems and Signal Processing	01
4.	Dr. Vikas Mittal, Associate Professor	Signal and Image Processing	01

5.	Dr. N.P. Singh, Associate Professor	Wireless Communications 5G/6G Technologies	02
6.	Dr. Arvind Kumar, Associate Professor	Communication Systems Signal Processing Antenna Design	02
7.	Dr. Rajender Kumar, Assistant Professor	Wireless Network IOT/ CRN Optimization Tech.	05
8.	Dr. Poonam Jindal, Associate Professor	Wireless Network Security Wireless Communication, quantum key encryption	06
9.	Dr. Sandeep Santosh, Associate Professor	DSP, Microwave	07
10.	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.	02
11.	Dr. Pankaj Verma, Asst. Prof	Machine learning & AI future generation communication systems Wireless & Optical Communication, IoT, Signal Processing, VLSI Devices	03
12.	Dr. T.N. Sasamal, Asst. Prof.	Embedded Computing Quantum Architecture, QCA Design, Low Power digital design, Reconfigurable Computing	04
13.	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.	03
14.	Dr. Shweta Meena, Asst. Prof.	Microelectronics & VLSI Design, Molecular Engg. Of 2D materials, Energy storage (Ion batteries and hydrogen storage) and spintronic based devices.	03

15.	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
16.	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
17.	Dr. B. Bhaskara Rao, Asst. Prof.	Digital Signal Processing	03
18.	Dr. Ghanapriya Singh, Asst. Prof.	Signal & Image Processing machine learning, Deep Learning, Computer Vision	04
19.	Dr. Suman Nelaturi, Asst. Prof.	MW & RF, Microstrip Patch Antennas, Syntheisis of Antenna Arrays, using Optimization Techniques, ML & DL Techniques	04
20.	Dr. Sambaiah Pelluri, Asst. Prof.	PR/Microwave/MM wave passing devices, active circuits, PRIC	04
21.	Dr. Chandra Prakash, Asst. Prof.	Photonic Integrated Circuit Microwave Photonics, Optical Senses, Bio Sensing	04
22.	Dr. Varun Kumar Singh, Asst. Prof.	Semiconductor Device Modelling Analog & Digital, Simulation & Fabrication, SC Design	04
23.	Dr. Parveen Malik, Asst. Prof.	Machine Learning, Image Processing	04
24.	Dr. Gourav Prateek Sharma, Asst. Prof.	Communications, Networking SG PSN	04

Department OF Civil Engineering			
1.	Dr. H.K. Sharma, Professor	Structural Engineering	01
2.	Dr. K.K. Singh, Professor	Water Resources Engg.	01
3.	Dr. Arun Goel, Professor	Water Resources Engg	02
4.	Dr. Ashwani Jain, Professor	Geotechnical Engineering	01
5.	Dr. Mahesh Pal, Professor	Remote Sensing	01
6.	Dr. V.P. Singh, Professor	Structural Engineering	01
7.	Dr. Praveen Aggarwal, Professor	Transportation Engg.	01
8.	Dr. Saraswati Setia, Professor	Structural / Seismic	03
9.	Dr. Paratibha Aggarwal, Professor	Concrete / Structural	01
10.	Dr. N.K. Tiwari, Professor	Water Resources & Geotechnical Engineering	02
11.	Dr. H.D.Chalak, Assistant Professor	Structural Engineering	01
12.	Dr. A.K. Prabhakar, Assistant Professor	Water Resources Engg.	03
13.	Dr. J.S.Yadav, Assistant Professor	Geotechnical Engineering	01

14.	Dr. Shweta Rathi, Assistant Professor	Environmental Engg	04
15.	Dr. Pankaj Munjal, Assistant Professor	Structural Engineering	03
16.	Dr. Yogesh Aggarwal, Professor	Structural Engineering	06
DEPARTMENT OF PHYSICS			
1.	Dr. Neena Jaggi, Professor	Spectroscopes, Nanomaterials based on Carbon Nanotechnology	01
2.	Dr. Y. Dwivedi, Assistant Professor	Laser Spectroscopy, Material Science Photonics	02
3.	Dr. Prakash Chand, Associate Professor	Energy Storage Devices Supercapacitor	02
4.	Dr. A.K.Tripathi, Assistant Professor	Semiconductorm, Nano-Materials	01
5.	Dr. Tanmay Maji Assistant Professor	Theoretical High Energy, Quantum Chromodynamics	01
6.	Dr. Imtiaz Noor Bhatti, Assistant Professor	Thin Films, Nanomagnetism Spintronics	05
DEPARTMENT OF CHEMISTRY			
1.	Dr. Amilan Jose D, Assistant Professor	Inorganic Chemistry, Analytical Chemistry, Nanomaterials	01
2.	Dr. Avijit Kumar Paul, Assistant Professor	Inorganic Chemistry	01
DEPARTMENT OF HUM & SS			
1.	Dr. Geeta Sachdeva, Assistant Professor	Management	01

2.	Dr. Shabnam, Assistant Professor	Psychology	01
3.	Dr. Ashwani, Assistant Professor	Economics	04
DEPARTMENT OF COMPUTER APPLICATIONS			
1.	Dr. Sandeep Kumar Sood, Associate Professor	Quantum Computing, Data Analytics, IoT, Information Security, Cloud Computing	02
2.	Dr. Sarika Jain, Assistant Professor	Artificial Intelligence, Natural Language processing, Knowledge Engineering	01
3.	Dr. Nidhi Gupta, Assistant Professor	Computer Vision, Pattern Recognition, Medical Imaging, Image Processing	02
DEPARTMENT OF BUSINESS ADMINISTRATION			
1.	Dr. Neeraj Kaushik, Associate Professor	Marketing	01
2.	Dr. Mohd Firoz, , Assistant Professor	Finance	02
3.	Dr. Chandra Sekhar, Assistant Professor	HRM & OB and Managerial Psychology	02
4.	Dr. Priyanka Sihag, Assistant Professor	HRM & OB	02
5.	Dr. Mohit Kumar Ojha, Assistant Professor	Finance	02
6.	Dr. Monika Sheoran, Assistant Professor	Marketing	02
7.	Dr. Sidhartha Harichandan, Assistant Professor	Marketing	01

DEPARTMENT OF VLSI DESIGN AND SYSTEMS ENGINEERING			
1.	Dr. R.K. Sharma, Professor	Embedded Systems and Low Power Design	03
2.	Dr. Gaurav Saini, Assistant Professor	VLSI Design Nanoscale Devices	03
3.	Dr. Dharmendra Singh Yadav, Assistant Professor	VLSI and Power Design	05
4.	Dr. Ashutosh Nandi, Assistant Professor	Microelectronics & VLSI	06
5.	Dr. Amit Kumar, Assistant Professor	High-speed VLSI Interconnects, Nano-material and Devices, VLSI Circuits and Systems, AI-Enhanced VLSI CAD	07
6.	Dr. Ankush Vashistha, Assistant Professor	Embedded Systems, IoT, Wireless Communication for Embedded Systems, Embedded System (s) for Robotics and Drone Applications, Indoor and outdoor 5G based positioning	07
7.	Dr. Dablu Kumar, Assistant Professor	Optical Fiber Technology, Microelectronics	02
	DEPARTMENT OF MATHEMATICS AND COMPUTING		
1.	Dr. Paras Ram, Professor	Fluid Dynamics (MHD, FHD)	02
2.	Dr. Sarasvati Yadav	Special functions, Lie Theory, Quantum Algebras, Differential Equations, Fractional Differential Equations	02
3.	Dr. Amit Prakash, Assistant Professor	Numerical Analysis	01

Visvesvaraya PhD. Scheme:

Title of Project	Funding Agency	Department	No. of Slots	Area of Specialization
Visvesvaraya PhD Scheme for Electronics and IT: Phase-II	Meit Y Government of India	Electronics and Communication Engineering	02	ESDM/IT/IT enabled Services
		Computer Engineering	02	Computer and Network Security, AI & ML, Computer Vision, Medical Imaging

Project seats:

Name of Deptt.	No. of Slots	Name of Project Investigator (PI & Co-PI)	Title of Project	Area of Specialization	Funding Agency	Remaining Duration In years Approx.
Computer Engineering	02	Prof. Mayank Dave (PI) Dr. Kuldeep Kumar (Co-PI)	Information Security Education and Awareness (ISEA) Project Phase-III	Computer and Network Security	Ministry of Electronic and Information Technology (MeitY), Govt. of India	04 Years
	01	Dr. Pratishtha Verma (PI)	ANRF-ECRG Smile Scope: Enhancing Early Autism Diagnosis Through Digital Behavioral Phenotyping	AI in Healthcare	ANRF-ECRG	03 Years
Computer Applications	01	Dr. Munish Bhatia (PI)	"SAKSHAM- Scientific Advancements in Knowledge for Sustainability, Healthcare, and Materials" in Theme "Environmental Sustainability and Energy Technology "	Quantum Computing	ANRF	04 Years

Physics	01	Dr. Prakash Chand (PI)	Development of NiCo-Double Hydroxide Based Reduced Graphene oxide (r-GO) Nanocomposite Electrodes for High Performance Industrial Supercapacitors	Energy Storage Devices Supercapacitor	ANRF	03 Year
	01	Dr. Than Singh Saini (PI)	Mid-IR Light Generation in Nonlinear Materials using Four Wave Mixing	Nonlinear Fiber Optics	ANRF	04 Year
Mechanical Engineering	01	Dr. Dinesh W Rathod	Residual Stresses and Performance Evaluation of Thick Section Welds of Ti64 Alloy for Aviation Application	Mechanical/Production/Manufacturing	ARDB DRDO	03 Year
Mathematics and Computing	02	Dr. Surendra Ontela		Fluid Dynamics		