Sr No	Name	Department	Email id	Mobile No	Broad area of Internship	Description of internship (around 50 Words)	Tentative start date.	Tentative end date	Number of internship Positions
1	Dr Anupam Yadav	Mathematics and Computing	anupam@nitj.ac.in	9627273447	Convex Feasibility Problems and Optimization	We are seeking a motivated and talented Research Interns to work in the area of Convex Feasibility Problems. This internship offers the unique opportunity to engage in cutting-edge research, develop novel projection algorithms, and contribute to future solutions that address some of the most challenging questions in optimization and computational mathematics.	01-06-2024	31-07-2024	02
2	Dr Mahesh - Patel	Civil Engineering	patelm@nitj.ac.in	9085684240	Applications of AI and ML in Civil Engineering problems & Water Resources Engineering and Hydraulics	AI and ML in Civil Engineering & Water Resources and Hydraulic Engineering: Optimizing infrastructure design, predicting concrete properties, managing floods, analyzing turbulent flows, field studies in Himalayan regions, enhancing urban drainage systems, optimizing water distribution networks, and forecasting hydrological phenomena.	02-05-2024	31-07-2024	5
3	Parnika Shrivastava	Mechanical engineering	shrivastavap@nitj.ac.in	9424482813	Additive Manufacturing, Sheet Metal Forming, Aluminium Alloy and it's Metallurgy	Internship will be provided to interested students on practical aspects of Manufacturing and Design Engineering.	15-05-2024	15-07-2024	03

4	Dr Gaurav Kumar	Humanities and Management	kumarg@nitj.ac.in	8168114298	Financial Data Analytics	The students will use programing skills to solve the probems in finance domain.	02-06-2024	31-07-2024	3
5	Dr. Kundan Kumar	Electronics and Communication Engineering	kumarkundan@nitj.ac.in	9608576776	Antennas Designing for 6G Communication	Designing antennas for 6G communication involves pushing the boundaries of current technology to accommodate the demanding requirements of the next generation of wireless services. Here's a description of some key considerations and approaches in antenna design for 6G communication	01-06-2024	30-06-2024	04
6	Dr. Mahesh Kumar Sah	Biotechnology	sahmk@nitj.ac.in	+917095044510	Biomaterials for tissue engineering	Extraction and development of graphite-based biomaterials from natural resources	06-01-2024	01-03-2024	2
7	Dr. Karan Jain	Instrumentation and Control Engineering	jaink@nitj.ac.in	8348664957	AI in healthcare; Biomedical signal processing	It would be aimed to explore applications of AI in healthcare, particularly, the classification of cardiovascular diseases using non-invasive datasets.	17-06-2024	26-07-2024	02
8	Dr Aviral Misra	Industrial and Production Engineering	mishraa@nitj.ac.in	9711209450	Additive manufacturing	The intern will get hands on experience of the additive manufacturing methods. During the internship, the intern will print the flexible components required in engineering applications.	20-05-2024	20-07-2024	2

9	Dr. Urvashi	CSE	urvashi@nitj.ac.in	8968522600	Security - Application Security, Cyber Warfare, Vulnerability Analysis and Management, Ransomware attacks - detection and mitigation. Artificial Intelligence - Adversarial ML, Explainable AI.	During this internship, students will have the opportunity to engage in hands-on projects, tackling real-time challenges. They'll delve into cutting-edge areas of research, aiming to develop solutions for contemporary societal issues.	15-06-2024	20-07-2024	3
10	rajesh singla	ice	singlar@nitj.ac.in	9815998767	Training Program on Industry 4.0	Training for Industry 4.0 encompasses a broad range of skills and knowledge needed to understand, implement, and operate the technologies and concepts associated with the fourth industrial revolution. Some key areas and approaches for Industry 4.0 training are Internet of Things (IoT), Data Analytics, Artificial Intelligence (AI) and Machine Learning (ML), Cyber-Physical Systems (CPS), Virtual Reality (VR), Cloud Computing. Theoretical concepts and hands on practical training will be discussed.	10-06-2024	05-07-2024	10
11	Dr Shveta Mahajan	CSE	mahajans@nitj.ac.in	9988519600	Image processing, Machine learning	research interests in Image Processing and Machine learning and training in hybrid mode	17-06-2024	19-07-2024	3

12	Dr Rohit mehra	Physics	mehrar@nitj.ac.in	9888534590	Environmental Radiation Monitoring	Assessing radiological risk due to environmental radioactivity involves evaluating the potential health impacts of exposure to radioactive materials in the environment. Overall, assessing radiological risk due to environmental radioactivity requires an interdisciplinary approach that integrates expertise in radiation science, environmental monitoring, health physics, epidemiology, risk assessment, and risk communication. Collaboration between scientists, policymakers, regulators, and community members is essential for effectively managing radiological risks and protecting public health and the environment. During the Internship, the intern will learn different techniques for radiological risk assessment for the human population due to natural radioactivity in the environment.	10-06-2024	25-06-2024	02
13	Dr. Shefali Arora Chouhan	Computer science and engineering	chouhansa@nitj.ac.in	9888813400	Computer Vision & Machine Learning	The internship will be in hybrid mode and will require basic knowledge of Python beforehand	10-06-2024	31-07-2024	4

14	JASPAL KAUR SAINI	INFORMATION TECHNOLOGY	sainijk@nitj.ac.in	7988102918	MACHINE LEARNING, CYBER SECURITY, DATA SCIENCE	PROJECT 1: STUDY OF DATA CENTER INFRASTRUCTURE IN INDIA PROJECT 2: CROP DISEASE DETECTION USING MACHINE LEARNING PROJECT 3: AIR QUALITY MONITORING ASSESSMENT AND PERSONALISED RECOMMENDATIONS	03-06-2024	03-08-2024	4
15	Dr Samayveer Singh	CSE	samays@nitj.ac.in	9953741966	IoT & ML application for security	I am looking active candidates who can work on IoT & ML applications for security	01-06-2024	31-07-2024	5
16	Shefali Arora Chouhan	CSE	chouhansa@nitj.ac.in	9888813400	Computer Vision and Machine Learning	The internship will be in hybrid mode. Basic knowledge of Python is required.	10-06-2024	31-07-2024	3

17	Dr. Arya Anuj Jee	Civil Engineering	jeeaa@nitj.ac.in	9706109770	Structural Engineering (Sustainable Construction Materials)	To optimize the mix parameters of LC3 concrete using locally available material:- LC3 (Limestone Calcined Clay Cement) concrete is a sustainable alternative to traditional Portland cement concrete, offering reduced carbon emissions and improved durability. Optimizing the mix parameters involves selecting the appropriate proportions of materials to achieve desired properties while considering local availability and cost-effectiveness.	01-06-2024	01-07-2024	2
18	Dr Sumit Sharma	Mechanical Engineering	sharmas@nitj.ac.in	8146871758	Composite Materials, molecular Dynamics	Mechanics of Composite Materials, molecular dynamics, lammps, nanotechnology	03-06-2024	14-07-2024	05

19	Dr. Prangya Ranjan Rout	Biotechnology	routpr@nitj.ac.in	8917379390	Environmental Biotechnology, Bioreactor Design, Bioprocess Engineering, Waste Valorization, Resource Recovery	The internship program will offer students a unique opportunity to gain practical experience and apply theoretical knowledge in real-world settings. The program is designed to provide students with hands-on experience in various aspects of biotechnology, including laboratory techniques and research methodologies. Furthermore, the internship program will enable the students to collaborate effectively with peers and mentors, communicate scientific findings, and adapt to diverse research environments.	10-06-2024	25-07-2024	3
20	Dr. Shashikant Yadav	Chemical Engineering	shashikanty@nitj.ac.in	7977228315	Chemical engineering	Work on projects related to CO2 sequestration, multiphase reactions, waste utilization, polymer films, edible films and coatings, and modeling and simulation.	10-05-2024	29-07-2024	5
21	Raman Bedi	Institute Instrumentation Center	bedir@nitj.ac.in	9815981054	Material Characterization	The intern will be deployed for characterization of materials using various high end equipment like FESEM, XRD etc f	20-05-2024	01-07-2024	04
22	Raman bedi	ME	bedir@nitj.ac.in	9815981054	Studies on Mechanical response of composites	Intern will be deployed for studying the various aspects of mechanical behavior of composites	20-05-2024	01-07-2024	02

23	Manoj Kumar	Mechanical Engineering	kumarm@nitj.ac.in	09793557548	Finite Element Methods, Computer Aided Design and Engineering.	An internship in FEM (Finite Element Method) is offered who are willing to work with computational tools like ABAQUS ANSYS, and COMSOL to solve engineering problems related to structural, fluids, heat transfer, Bullet Impact Analysis. The internship projects could involve modeling and simulating the behavior of structures under different conditions (e.g., stress analysis, vibration analysis, Bullet Impact, Fracture Analysis), analyzing fluid flow patterns, or studying thermal behaviour of materials. The students will learn and gain proficiency in using FEM software to create meshes, define material properties, apply boundary conditions, and run simulations. This includes interpreting simulation results and troubleshooting any issues that arise during the simulation process	20-05-2024	20-07-2024	4

24	Dr. G.N. Nikhil	Biotechnology	nikhilgn@nitj.ac.in	8978093867	Environmental Biotechnology	The students will get an opportunity to learn about the construction and operation of bioreactors for producing biofuels such as biogas, biohydrogen, biodiesel, and bioproducts such as VFA, PHA, etc. Besides wastewater treatment, dye degradation studies can also be carried out. To better understand the process and metabolism, microbial and biochemical analysis supporting growth and product formation kinetics and optimisation studies can be carried out.	10-06-2024	19-07-2024	4
25	Dr. Naveen Kumar Gupta	Information Technology	guptank@nitj.ac.in	7843902280	Blockchain, IoT, AI/ML	Programming in Blockchain and connect the blockchain with IoT hardware. Further, apply AI/ML and analyze the effect.	17-06-2024	19-07-2024	5

26	Dr Rajeev Kukreja	Mechanical Engineering	kukrejar@nitj.ac.in	9872070037	Flow condensation in Macro and Micro Channels	The internship involves understanding the detailed analytical and phenomenology of condensation of refrigerants in Macro and Micro channels. An experimental test rig to study the condensation characteristics such as condensation heat transfer coefficient and pressure drop is available in the Refrigeration and Air Conditioning laboratory of department of Mechanical Engineering. The facility will give ample opportunities to abreast the student to get the the latest knowledge in the field.	13-05-2024	14-06-2024	01
27	Richa Sharma	ICE	richas@nitj.ac.in	9915633616	1. Development of robotic assistive devices and 2. applications of machine learning techniques	One part will contain Development and control of robotic devices. Other part will be on application of machine learning techniques for different signals.	10-06-2024	20-07-2024	04
28	Nisha Chaurasia	Information Technology	chaurasian@nitj.ac.in	7000591658	Artificial Inteligence & Machine Learning	It will be an internship offered to students have basic knowledge of AI and ML and has some hands-on on implementation of algorithms with respect to the stated area.	01-05-2024	30-06-2024	02

| 29 | Simranjit Singh | Department of Information Technology | singhsimranjit@nitj.ac.in | 7009927377 | Computer Vision, Deep/ Machine learning, Remote Sensing, Application of ML/ DL in various Domains | This internship provides hands-on experience in cutting-edge computer vision and deep learning techniques. Interns will work on real-world projects involving remote sensing data, image processing, and applying deep/machine learning models to solve problems in diverse domains. Opportunities for research, algorithm development, and deployment are available. | 13-06-2024 | 20-07-2024 | 5 |

| 30 | Dr Roop Kishor | Civil Engineering | kishorr@nitj.ac.in | 7500835052 | Pavement analysis and design using IITPave | Pavement Analysis: Pavement analysis involves evaluating various factors affecting pavement structures' performance and durability. This includes assessing the pavement layers' traffic loading, environmental conditions, material properties, and structural integrity. Analysis typically involves mathematical modeling and simulations to predict pavement behavior under different scenarios. Pavement Design: Pavement design aims to develop a structure that can withstand the anticipated traffic loads and environmental conditions over its design life. It involves determining the appropriate thickness and composition of pavement layers to ensure adequate strength, stability, and serviceability. Factors such as material properties, traffic volume, climate, and drainage are considered in the design process. | 10-06-2024 | 10-07-2024 | 4 |

31	Dr Balwinder Raj	ECE	rajb@nitj.ac.in	6280432258	Semiconductor Devices and VLSI Design	Internship will be provided to B.Tech) and M.Tech students in the area of semiconductor devise and VLSI design. Nanoelectronics semiconductor devices such as FinFET, TFET, FeFET, Nanowire, GAA etc. will be discussed theoretically as well as using TCAD simulation tools. Circuit level applications of semiconductor devices will also be covered for low power VLSI design	20-05-2024	19-07-2024	5
32	Dr. Mahendra Kumar	ICE	mahendrak@nitj.ac.in	7014798426	Control Theory, Microgrid, Robotics and Drone control design, EV Charger with Power Electronics Converters	Students will work on the robust and resilient control design for a cyber-physical power system with AI (Machine learning, Reinforcement learning). They will also work on cyber-attack detection and classification, as well as designing and applying robotics and drones in various application domains.	12-05-2024	28-08-2024	2
33	Dr. Anee Mohanty	Biotechnology	mohantya@nitj.ac.in	9703991708	Environmental Biotechnology	The internship aims to provide the student with a basic understanding of research culture of our lab, basic techniques of microbiology and bioinformatics	10-06-2024	30-07-2024	2

34	Dinesh Kumar Shukla	Mechanical Engineering	shukladk@nitj.ac.in	9478128407	Welding Technology	To analyze the effect of multi layer welding on mechanical and metallurgical properties of steel on Submerged Arc Welding Technique	03-06-2024	28-06-2024	5
35	Dr Sumer Singh Meena	Biotechnology	meenass@nitj.ac.in	9911253494	Applied Microbiology and Environmental Biotechnology; Bioinformatics	The internship will be equipping students about isolation, identification and applications of microbial species. Additionally, bioinformatics training encompasses the analysis and interpretation of biological data using computational tools and algorithms. Students gain proficiency in genomics, proteomics, and systems biology, enabling them to extract meaningful insights from large-scale biological datasets and contribute to fields like drug discovery, personalized medicine, agricultural and environmental biotechnology.	10-06-2024	31-07-2024	02
36	Dr Raj Kumar Arya	Chemical Engineering	aryark@nitj.ac.in	9819588825	Antimicrobial coating, food coatings, functional coatings, polymeric coatings, chemical engineering, modeling and simulation	Students are supposed to summarise literature and do experiments in above fields. Masters student will be paid rs 5000 per month fellowship for a period of two months maximum.	01-06-2024	19-07-2024	2 masters, 2 B Te

| 37 | Dr. Sanjeeb Sutradhar | Chemistry | sutradhars@nitj.ac.in | 9940406382 | Development of Hybrid Organic-Inoragnic Composite for Functional Materials | # Identify the charge transfer complex molecule from the literature.

Perform exeeriment and maintain accurate records of experimental data.

Analyze the experimental and theoretical data using software tools and interpret results to draw meaningful conclusions.

Collaborate with like-minded research groups to achieve project milestones.

Contribute to the preparation of presentations and reports. | 27-05-2024 | 10-07-2024 | 02 |