

# Areas for Summer Internship 2025 for UG Students

Name of Faculty Mentor	Area of Summer Internship 2025	Remarks
<b>Department of Astronomy, Astrophysics and Space Engineering (DAASE)</b>		
<a href="#">Dr. Unmesh Khati</a>	1. Drone applications and data analysis; 2. Synthetic Aperture Radar data processing; 3. Remote Sensing and GIS; 4. AI/ML applications in geospatial data analysis; 5. Time-series data analysis; 6. Disaster mapping using satellites;	
<a href="#">Dr. Siddharth Savyasachi Malu</a>	Space Science and Astronomy	
<b>Department of Biosciences and Biomedical Engineering (BSBE)</b>		
<a href="#">Dr. Hitendra Kumar</a>	Numerical modeling for scaffolds design; Reacting flow simulations in porous media for biomedical applications	
<a href="#">Dr. Sourav Chandra</a>	Sensor based bio-mechanical analysis of human limb movements	
<a href="#">Dr. Lokesh Basavarajappa</a>	Development of algorithms for microvessel detection using ultrasound.	
<a href="#">Professor Mirza S. Baig</a>	Inflammation and cancer	
<b>Department of Chemistry</b>		
<a href="#">Professor Chelvam Venkatesh</a>	Synthesis of Anti-cancer Natural Products, Heterocycles, Carbocycles, Small Molecule Inhibitors, Diagnostic and Therapeutic Applications of New Targeting Ligands for	

	Cancer, Inflammatory, Infectious and Neurodegenerative Diseases, Synthesis of Inhibitors for Drug Targets, Drug Delivery Systems, Near-infrared Fluorescence and Nuclear Radioisotopes Imaging, Bio-conjugate chemistry, Nanomaterials for Biodiesel Production	
<a href="#">Professor Sampak Samanta</a>	Synthetic Organic Chemistry	
<b>Department of Chemical Engineering</b>		
<a href="#">Dr. Rajan Singh</a>	ASPEN Flow-sheeting of biomass gasification to produce Hydrogen	
<a href="#">Dr. R. Kailasham</a>	Polymer physics, rheology, active matter	
<b>Department of Civil Engineering (CE)</b>		
<a href="#">Professor Manish Kumar Goyal</a>	Water, Environment, Climate Change, AI, GIS	
<a href="#">Dr. Mayur Shirish Jain</a>	Environmental Sustainability	
<a href="#">Dr. Ashootosh Mandpe</a>	Environmental Engineering: Waste (Solid & Liquid) Management, Circular Economy, Sustainability.	
<a href="#">Dr. Priyank J. Sharma</a>	Machine Learning based Hydrological Modelling, Climate Extremes, Floods and Droughts	
<b>Department of Computer Science and Engineering (CSE)</b>		
<a href="#">Professor Somnath Dey</a>	Computer Vision and Machine Learning	
<a href="#">Professor Surya Prakash</a>	Computer Vision and Deep Learning	
<a href="#">Dr. Soumi Chattopadhyay</a>	Deep Learning, Multimodal Recommendation System	
<a href="#">Dr. Chandresh Kumar Maurya</a>	AI, ML, CV, and NLP	
<a href="#">Dr. Nagendra Kumar</a>	Machine Learning, Deep Learning, Computer Vision, Natural Language Processing	
<a href="#">Dr. Puneet Gupta</a>	Deep learning	
<a href="#">Dr. Ayan Mondal</a>	IoT and computing	
<a href="#">Professor Anirban Sengupta</a>	Hardware security, IP protection and CAD VLSI	
<b>Department of Electrical Engineering (EE)</b>		

<a href="#">Dr. Sharad Kumar Singh</a>	Robotics, Control and Optimization	
<a href="#">Dr. Lokesh Kumar Dewangan</a>	Power Electronics and Power Systems	
<a href="#">Dr. Appina Balasubramanyam</a>	Image processing and Machine learning	
<a href="#">Dr. Rinkee Chopra</a>	High power Microwave System	
<a href="#">Dr. Santosh Kumar Vishvakarma</a>	VLSI Chip for AI	
<a href="#">Dr. Shaibal Mukherjee</a>	Cloud computing and PCB layout design	
<a href="#">Dr. Swaminathan R</a>	6G Communications	
<a href="#">Professor Vimal Bhatia</a>	1. AI/ML and Signal Processing 2. Wireless Communications (5/6G) 3. Quantum Communications	
<a href="#">Dr. Dibbendu Roy</a>	LLMs for communication networks	
<b>School of Humanities and Social Sciences (HSS)</b>		
<a href="#">Dr. Aratrika Das</a>	Medical Humanities	
<a href="#">Professor Pritee Sharma</a>	Environmental Economics	
<a href="#">Dr. Thapasya J.</a>	Linguistics	
<a href="#">Dr. Kalandi Charan Pradhan</a>	Development Economics, Sustainable Development and Socioeconomic impacts of climate change	
<b>Department of Mathematics</b>		
<a href="#">Dr. Mohd. Arshad</a>	Statistical Machine Learning	
<a href="#">Dr. Santanu Manna</a>	Localised wave in shell structure	
<a href="#">Professor M. Tanveer</a>	AI/ML/DL	
<b>Department of Mechanical Engineering (ME)</b>		
<a href="#">Dr. Santosh Kumar Sahu</a>	Cooling of electronic components, battery modules, jet impingement, phase change	

	materials	
<a href="#">Dr. Harekrishna Yadav</a>	Flow, Heat transfer and energy	
<a href="#">Dr. Vibhor Pandhare</a>	Digital Twins and Artificial Intelligence with application in Healthcare and Manufacturing	
<a href="#">Dr. S Janakiraman</a>	Next Generation Energy Storage Battery Materials	
<a href="#">Dr. Satyanarayan Patel</a>	Piezoelectric, pyroelectric materials and energy storage	
<a href="#">Dr. Aman Khurana</a>	Design and development of automated stretching mechanism for elastomeric membranes.	
<a href="#">Dr. Krishna Mohan Kumar</a>	Automotive Noise and Vibration Control	
<b>Department of Metallurgy Engineering and Materials Science (MEMS)</b>		
<a href="#">Dr. Dharendra Kumar Rai</a>	Energy Storage (Battery and Supercapacitor)	
<a href="#">Dr. Rupesh S. Devan</a>	Nanomaterials for energy storage or conversion	
<a href="#">Dr. Mrigendra Dubey</a>	Soft Materials	
<a href="#">Dr. Santosh S. Hosmani</a>	Surface Engineering, Surface Alloying, Coatings, Tribology, Microstructure-Property Correlation	
<a href="#">Dr. Eswara Prasad Korimilli</a>	1.Mechanical behavior of Advanced material 2.Tribological behavior of additively manufactured steels 3.Effect of heat treatment on the microstructural evolution of tool steels and their mechanical properties.	
<b>Department of Physics</b>		
<a href="#">Dr. Dipankar Das</a>	Advanced topics in Quantum Mechanics, Introductory Particle Physics, Computational	
<a href="#">Professor Somaditya Sen</a>	Semiconductor Materials and Characterization	
<a href="#">Dr. Rajesh Kumar</a>	Smart electrochromic windows; Supercapacitors and energy storage; Nanoscience and nanotechnology; Raman spectroscopy and Raman microscopy	
<a href="#">Dr. Raghunath Sahoo</a>	High energy nuclear physics and quark-gluon plasma, application of machine learning.	
<a href="#">Professor Pankaj R. Sagdeo</a>	1.Fabrication and characterization of nano material.	

	2. Fabrication and Characterization of multifunctional materials for various applications	
<a href="#">Dr. Debajyoti Sarkar</a>	1. Chaos in fields and strings and gravity 2. Quantum information theory and AdS/CFT duality	
<a href="#">Dr. Onkar Sharad Game</a>	1. Halide perovskite Optoelectronics 2. Next generation perovskite solar cells	
<a href="#">Professor Sarika Jalan</a>	Nonlinear Dynamics and complex systems	
<a href="#">Professor Ankhi Roy</a>	1. Study of heavy flavour production 2. Particle Detectors and Simulation	

**Note:**

1. The Internship fees, once paid, are non-refundable.
2. The undergraduate students must contact the faculty mentor with any query/clarification.
3. Written email consent from the faculty mentor of IIT Indore is a must.
4. The last date to fill out the application form is March 31, 2025.
5. Only the selected students will get the payment link in April 2025.