



IIT PALAKKAD

Research Areas Available for MS/PhD Admission in January 2024

Department/Centre	Research Areas Available for MS/PhD Admission in January 2024
Biological Sciences & Engineering	Biochemistry Drug Discovery
Chemistry	Materials Chemistry and Heterogeneous Catalysis Supramolecular Chemistry Main Group Chemistry Experimental Physical Chemistry (Spectroscopy) Computational Chemistry Organic materials: Synthesis and Applications
Civil Engineering	Rock Mechanics and Underground Structures Building Materials Pavement Engineering Water Resources Engineering Geotechnical Engineering Structural Engineering Environmental Modelling
Computer Science and Engineering	Networks Distributed Systems Computer vision Explainable AI AI on Edge
Data Science	Machine Learning & Deep Learning Computer Vision Information Retrieval
Electrical Engineering	Microwave Integrated Circuits including Antennas Control and Robotics Sensors, Measurements, and Instrumentation Nanoelectronics, Optoelectronics, Semiconductor Devices Power Electronics and Power Systems Communication Engineering Digital VLSI Design
Humanities and Social Sciences	Development Economics
Mathematics	Applied Algebra and Cryptography (The selected candidate will work with a faculty member from the Department of Computer Science)
Mechanical Engineering	Refrigeration Heat Transfer Thermal Management of Batteries and Electronics Fuel Cell Development Computational Fluid Dynamics Computational Wave Propagation Robotics and Mechanisms Continuum Mechanics Granular Flow Lean Manufacturing Metal Additive manufacturing Welding and Wire Arc Additive Manufacturing Electric Discharge Machining Tribology

	<p>Surface Engineering Scientific Machine Learning</p>
<p>Physics</p>	<p>Computational Soft Matter Physics Experimental and Theoretical Soft Matter Physics Theoretical Nuclear Astrophysics Experimental Condensed Matter Physics</p>
<p>Environmental Sciences & Sustainable Engineering Centre (ESSENCE)</p>	<p>Nature-based solutions for climate change Ecology Crop modelling Earth & climate sciences and allied areas</p>