



**JIS INSTITUTE OF ADVANCED STUDIES AND RESEARCH (JIASR)
KOLKATA
JIS UNIVERSITY**

Ph.D. Admission Notification Spring 2024

Applications are invited from eligible candidates for **PhD programs and Integrated MTech–PhD and MSc–PhD programs** as per the UGC guidelines and rules and regulations of JIS University for the following four centres of JIS Institute of Advanced Studies and Research Kolkata for the even semester 2024.

Centre for Data Science (CDS):

Machine Learning • Data Mining • Computer Vision • Image and Video Processing • Natural Language Processing • Cloud Computing • Video Surveillance • Data Security • Access Control Models • Business Data Analytics • Medical Imaging and Image Processing • Internet of Things and Applications • Stochastic Processes in Big Data Analytics • Remote Sensing • Geo Informatics and related fields

Centre for Health Science and Technology (CHeST):

Medical microbiology • Infectious diseases • Host-pathogen interactions • Bacterial small molecule signaling • Human microbiome in health and disease • Microbial evolution of virulence and drug resistance • Machine learning in healthcare • Medical image analysis • Next-generation sequencing (NGS) data analysis and methodology development • Molecular modeling and computer-aided drug design

Centre for Interdisciplinary Sciences (CIS):

Functional Materials for Energy Storage • Thermal Management • EMI Shielding • Chemosensor • Surface Coating and Engineering • Paint Application • Composite Materials (Polymer/ Graphene) • 3D Bioprinting and Additive Manufacturing • Functional Materials for Biosensor • Bioimaging • Drug delivery • Theranostics • Anti-amyloid Agents • Epigenetics and Immuno-therapeutics • Nanomaterials • Nanomedicines • Herbal Medicines • Spectroscopy for Protein Ligand Binding Study • Nanomedicine in infectious diseases • Ultra diluted medicine • Drug Delivery: Tissue Engineering

Centre for Renewable & Sustainable Energy Studies (CReSES):

Renewable energy and applications • Battery technology • Electric vehicle • Electronics design & instrumentation • Smart & self cleaning technology of solar PV • Radiative cooling technology • Smart sensor systems and instrumentation • 4th generation solar systems

For details, please visit www.jiasr.org or call **9874375544**

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