

CENTER FOR CAREER DEVELOPMENT

PLACEMENT BROCHURE

2025-26



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान भोपाल Indian Institute of Science Education and Research Bhopal Ministry of Education, Govt. of India

Ranking

- Nature Index: 12th Overall in India, 10th Academic in India
- QS World University Ranking
 2025: 501-520 in Asia
- Times Education World
 University Ranking 2025: 1201-1500th
- ARIIA: Promising band of Innovation Ranking



Entrepreneurship

- Start-ups: 25+
- Student Pre Start-ups: 15+
- Student Innovation Grants
- E-Cell
- Institute Innovation Council
- Capacity Building for Design and Entrepreneurship



Industry Engagement

- Industry Academia Conclave
- Al in Healthcare Symposium
- Microsoft-Powered Workshop on Al Innovation
- Career talks & Workshops



Research

- Publications: 4000+
- Patents: **65+**
- Projects: **800+**
- Funding Agencies: 50+
- MoUs & Collaborations: 60+



Global Internships

- Mitacs: 120+
- Max Planck Institutes: 20+
- ENS-IISER Network: 25+
- DAAD: 20+

nopal Highlights

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- Australia National University-FRT: 10+
- Charpak Scholarship: 10+



State-of-art Infrastructure

- Central Instrumentation Facility
- Central Library
- Technology Enabled Lecture Halls
- Computer Center
- Conference Halls & Seminar rooms
- Visitors' Hostel



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Foreword

From Directors' Desk

IIISER Bhopal is committed to nurturing independent, well-rounded individuals equipped with a strong scientific temperament and critical thinking abilities. With a solid foundation in the basic and engineering sciences, our students are trained to appreciate and engage with the intricacies of interdisciplinary research. Supported by world-class infrastructure and guided by accomplished faculty members who are leaders in their respective fields, students across all our academic programs receive comprehensive mentorship and hands-on exposure to cutting-edge research and development.



Prof. Gobardhan DasDirector, IISER Bhopal

We invite all organizations and corporations to visit our campus and connect with our young, enthusiastic and innovative minds.



At IISER Bhopal, we nurture not just academic brilliance but also the skills essential for real-world success. Our students are equipped to innovate, adapt, and lead in a dynamic global landscape.

Dr. Ajit Chande, Dean, Alumni & International Relations

We take pride in shaping young minds into well-rounded professionals through rigorous academics and holistic development. We invite you to engage with our talented students who are ready to contribute meaningfully to your organization.

Dr. Nirmal Ganguli, Chairperson, CCD





At the Center for Career Development, our mission is to connect bright minds with opportunities that match their potential. We invite industry partners to discover the next generation of leaders at IISER Bhopal.

Dr. Paramita Das, Head, CCD

ABOUT IISER BHOPAL



The Indian Institute of Science Education and Research Bhopal (IISERB) is one of India's premier autonomous research institutions, established in 2008 the Ministry Education, by of Government of India. BS and BS-MS students are admitted to the program exclusively through the IISER Aptitude Test (IAT).

provide We high-quality education through our BS, BS-MS, PhD and Integrated PhD programs across disciplines in natural sciences, engineering sciences. economic sciences, humanities and social sciences.

Students get exposure in professional work culture and cutting-edge research through internships, research projects, and scientific interactions, making them well-equipped to enter industry and academia. Critical and analytical thinking is promoted through a rigorous interdisciplinary academic curriculum.

The vision of the Institute is to provide high-quality education to undergraduate, postgraduate, and doctoral students. The Institute also aspires to contribute to the society through teaching and research to help achieve global sustainability. Further, the Institute aims to produce leaders in science and related disciplines.

Mission

- To establish, build, and sustain an Institution of the highest caliber by the complete integration of teaching and state-of-the-art research
- To make learning in science and other knowledge streams exciting through excellent integrative teaching strategies driven by curiosity and creativity
- To impart and nurture a variety of skills that prepare students for outstanding careers in the world, in various areas, including academia

CENTER FOR CAREER DEVELOPMENT (CCD)

The Center for Career Development (CCD), under the aegis of Dean of Alumni and International Relations at IISER Bhopal, is committed to supporting students in realizing their full potential and pursuing diverse career aspirations in higher education, corporate placements, entrepreneurship, and competitive examinations. Through its Career Training Cell, Placement Cell, and Internship Cell, the CCD conducts a wide range of initiatives designed to foster students' career growth and professional development.

> **Center for Career Development (CCD)**

Placement Cell

Internship Cell

Career **Training** Cell

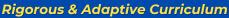
- (i) Placement Cell: Responsible for inviting potential recruiters to conduct campus recruitment drives for the students
- (ii) Internship Cell: Facilitating students for Academic and Industrial internships opportunities to gain practical skills.
- (iii) Career Training Cell: Organising soft skills workshops, personality development training, career talks and interactions with alumni and industry experts.

Why Recruit Students from IISER Bhopal?



Top-Ranked Institute

Among India's premier science and engineering institutions, known for academic excellence.



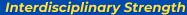
Industry-aligned, research-driven programs that evolve with emerging trends and technologies.





Cutting-Edge Research & Innovation

Students thrive in an environment that fosters original thinking, discovery, and patents.



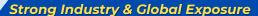
Equipped to integrate knowledge across fields, solving complex real-world problems.





World-Class Mentorship

Guided by distinguished faculty, globally recognized for research and teaching.



Opportunities through collaborations, internships, and international exchange programs.





Entrepreneurial, Leadership & Soft Skills

A culture that nurtures startups, innovation, and values-driven leadership.



Highly selective intake ensures recruiters access the country's brightest minds.





Holistic Development

Focus on soft skills, ethics, teamwork, and societal responsibility alongside academics.

> State-of-Art Infrastructure & **Vibrant Campus Life**

Advanced labs, modern facilities, and a dynamic community for personal growth.



Programs at IISER Bhopal

Bachelor of Science (BS), 4 years



Chemical Engineering



Data Science and Engineering



Electrical Engineering and Computer Science



Economics

Master of Science (M.Sc.) 2 years



Biological Sciences



Chemistry



Mathematics

Integrated Ph.D.



Mathematics



Physics

Bachelor of Science - Master of Science (BS-MS) Dual Degree , 5 years



Biological Sciences



Chemistry



Earth and Environmental Sciences



Mathematics



Physics



Chemical Engineering



Data Science and Engineering



Economics



Electrical Engineering and Computer Science

M.A. in Liberal Arts



Humanities & Social Sciences

Ph.D.



All Academic Departments

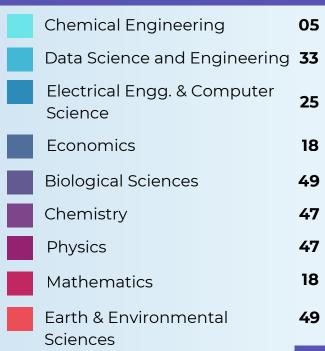
Student Distribution

Bachelor of Science (BS)





Bachelor of Science - Master of Science (BS-MS) Dual Degree







Master of Science (M.Sc.)



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Chemical Engineering



R&D AND INDUSTRIAL SKILLS

- Multiphase Flow & Reactor Hydrodynamics
- Computational Fluid Dynamics (CFD) in Process Engineering
- Non-Newtonian Fluid Mechanics & Rheology
- Wastewater Treatment & Reuse Technologies
- Interfacial Science and Colloidal Systems
- Soft Matter Engg. & Self-Propelled Systems
- Reaction Engineering and Catalysis
- Process Design, Simulation, & Intensification
- Materials Science and Engineering
- Renewable & Sustainable Energy Technologies
- Environment and Sustainability in Chemical Processes
- Al and Machine Learning Applications in Chemical Engineering
- Petroleum Engineering and Downstream
 Processing

CURRICULUM

- Engineering Design and Drawing
- Engineering Mechanics
- Thermodynamics & Statistical Mechanics
- Chemical Process Technology
- Chemical Process Calculations
- Computational Fluid Dynamics
- Heat Transfer Operations
- Fluid Mechanics and Mechanical Operations
- Numerical Methods in Chemical Engg.
- Chemical Reaction Engineering
- Mass Transfer and Separation Processes
- Process Dynamics and Control
- Process Design and Economics
- Process Modelling and Simulation
- Advanced Transport Phenomena
- Petroleum Downstream Processing
- Polymer Science and Processing
- Nanomaterials: Fundamentals and their Characterization
- Electrochemical Engineering

Programs

BS ● BS-MS ● Ph.D.



DEPARTMENT WEBSITE

Energy Conversion and Storage

Environment and Sustainability

Reaction Engineering and Catalysis

Al in Chemical Engineering

Multiphase Transport

Materials Engineering

Electrical Engineering & Computer Science



R&D AND INDUSTRIAL SKILLS

- · Analog and digital circuit design and RF **Engineering**
- Competitive Programming and Web Development
- Computational analysis of engineering problems
- Design and analysis of IoT applications and microcontroller programming
- Design and implementation of ML and
- deep learning models
- Design and verification of software/hardware systems
- Development and implementation of algorithms
- Fabrication of devices and sensors & integration with system
- Functional material synthesis & characterisation

Programs

● BS-MS ● Ph.D.

• Performance evaluation of stochastic realtime systems

CURRICULUM

- Analog and Digital Electronics Cryptography
- Combinatorial Optimization **Communication & Signal Processing**
- Computational Geometry
- **Computer Networks**
- Computer Organization / **Architecture**
- Quantum Computing
- **Data Structures & Algorithms**
- **Data Science & Machine Learning**
- **Electromagnetics & Plasmas**
- **Internet of Things & Sensors**
- **Operating Systems**
- **Robotics & Control Systems**
- **Software Modelling and Verification**
- **Solid State Devices**
- Theory of Computation

AREAS

RESEARCH

Cryptography

Algorithms

Robotics & Control Systems

Social Networks Sensing and Analytics

Software Modelling & Verification

Design & Analysis of Algorithms

Machine Learning for Software

Device Circuits & Sensors

Quantum Information Processing

Communication & Signal Processing



DEPARTMENT WEBSITE

Data Science & Engineering







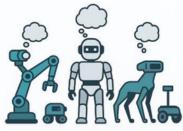




Visual Data Computing Group







ROBOTIC PERCEPTION AND EMBODIED INTELLIGENCE LAB

R&D AND INDUSTRIAL SKILLS

- Multi-sensor Bigdata Analytics
- Development of Intelligent
 Systems
- Data-Driven Robotics
- Biomedical Informatics

Programs

BS ● BS-MS ● Ph.D.

- Natural Language Processing
- Development and Implementation of Algorithms
- Computational Modelling of Data-Driven Real-World Problems
- Geospatial Artificial Intelligence

CURRICULUM

- Advanced Machine Learning
- Applied Optimization
- Artificial Intelligence
- Bioinformatics and Biostatistics
- Combinatorics and Graph Theory
- Computational Linguistics
- Computer Vision
- Database Systems
- Deep Learning
- Digital Image Processing with Biomedical Applications
- Natural Language Processing
- Reinforcement Learning

RESEARCH

Biomedical Data Science

Geospatial Artificial Intelligence for Urban Planning

Medical Image Processing

Natural Language Processing

Trustworthiness and Fair Artificial Intelligence Computer Vision and Image Processing

Machine Learning on High Resolution Remotely Sensed Data

Model Compression and Efficient Deep Learning

Biometrics Recognition

Generative Neural Networks



DEPARTMENT WEBSITE

Department of Economic Sciences



R&D AND INDUSTRIAL SKILLS

- Data Science and Analytics
- Programming in R, Python, Strata.
- SPSS, SAS, ProwessIQ by CMIE
- **Time Series Modelling**
- Risk Management
- **Production Analysis**
- **Policy Analysis**

CURRICULUM

- Applied Production Analysis
- **Behavioral Economics**
- Development Economics
- **Econometrics**
- Game Theory
- India in the World Economy
- **International Economics**
- **Macroeconomics**
- Mechanism Design
- **Microeconomics**
- **Political Economics**
- **Public Finance**
- Time Series Analysis and **Forecasting**
- Social Choice Theory

Programs BS-MS



DEPARTMENT WEBSITE

Behavioural Economics

Environment & Resource Economics

Applied Econometrics

Macroeconomics-Theory &

Game Theory

RESEARCH AREAS

Microeconomics-Theory & Applied

Applied

Data Envelopment Analysis

Political Economy

Banking and Finance

Risk Management

Department of Biological Sciences



R&D AND INDUSTRIAL SKILLS

- Cell biology, immunofluorescence
- CRISPR/Cas genome editing
- Developmental studies using drosophila
- · Epitope tagging, pulldownbased approaches.
- Electrophysiology, machine learning approaches
- · Mammalian cell culture, bacterial culture,
- yeast culture
- Microscopy, fluorescence microscopy,
- confocal microscopy
- · Molecular cloning, molecular biology, biochemistry

- Molecular virology, Lentiviral vectors
- PCR, RT-PCR, quantitative PCR
- Plant phenotyping, genotyping and transformation
- Protein purification, affinity purification
- RNA biology, Yeast-2hybrid assays,
- Histochemistry
- Ultracentrifugation,
- Electrophoresis-based techniques
- · Western blotting, immunoblotting

CURRICULUM

- **Biochemistry**
- **Bioinformatics**
- **Biostatistics**
- Bioinstrumentation
- **Cancer Biology**
- **Cell Biology**
- **Epigenetics**
- **Immunology**
- Microbiology
- **Molecular Biology**
- Neurobiology
- **Recombinant DNA**
- **Technology**
- Virology

RESEARCH AREAS

Programs

BS-MS • M.Sc. • Ph.D.



DEPARTMENT WEBSITE

Tuberculosis Biology

Plant Molecular Biology

Microbiology and Molecular Biology

Metagenomics, Genomics and Al

Immunology and Virology

Cell and Develpomental Biology

Ecology and Evolutionary Biology

Chemical Biology, Structural Biology and Biochemistry

Epigenetics and Cancer Biology

Biophysics and Structural

Department of Chemistry



R&D AND INDUSTRIAL SKILLS

- Analysis of IR/Mass/NMR
 Spectrometry Analysis of diffraction data (single crystal and powder)
- Analysis of thermal data (DSC, TGA and HSM)
- Inorganic and organic compound synthesis
- Instrumentation: spectroscopynvoltammetry
- Pharmaceutical polymorphism and cocrystallization (mechanochemistry)
- Transition metal catalysis

CURRICULUM

- Advanced Molecular Spectroscopy
- Advances in Transition-Metal Chemistry Bioinorganic and Biophysical Chemistry Chemical Biology
- Chemistry of Organic and Inorganic Materials Chemistry of Polymers
- Electrochemistry
- Frontiers in Organic Chemistry
- Main Group Chemistry
- Organometallics
- Quantum Chemistry
- Statistical Mechanics
- Supramolecular Chemistry
- Symmetry and Group Theory
- X-ray Diffraction

Programs

BS-MS • M.Sc. • Ph.D.



DEPARTMENT WEBSITE **Bioinorganic Chemistry**

Chemical Biology

Inorganic & Organometallic Catalysis

Synthetic Organic Chemistry

Spectroscopy

Biophysical Chemistry

Chirality in Molecules and Materials

Material Science

Organic Material and Supramolecular Chemistry

Theoretical and Computational Chemistry

Department of Earth and Environmental Sciences



R&D AND INDUSTRIAL SKILLS

- Climate and green-house gas modelling
- Data analysis and statistics
- Geoinformatics
- Hands-on training (via laboratory courses and field trips)
- Instrumental analytical techniques for geochemical analysis
- Remote sensing and GIS

CURRICULUM

- Aerosol Science
- Earth Surface **Processes**
- Economic Geology
- Environmental Chemistry
- Field Geology
- Geodynamics
- Global Climate
- Geophysics
- Structural Geology
- Hydrology

- Indian Monsoon
- Marine Biogeochemical **Cycles**
- Mineralogy
- Oceanography
- Petrology
- Sedimentology and Stratigraphy
- Solid Earth
- **Fuel Geology**
- Geochemistry
- Sustainability Change

Programs

BS-MS



Ph.D.



EPARTMENT WEBSITE

Atmospheric Aerosols Greenhouse Gas Modeling

Monsoon Dynamics and Interactions

River Engineering and Science Environmental Geochemistry

Fluvial Geomorphology

Geostatistics

Regional Earth System Modeling

Surface and Statistical Hydrology Geoinformatics

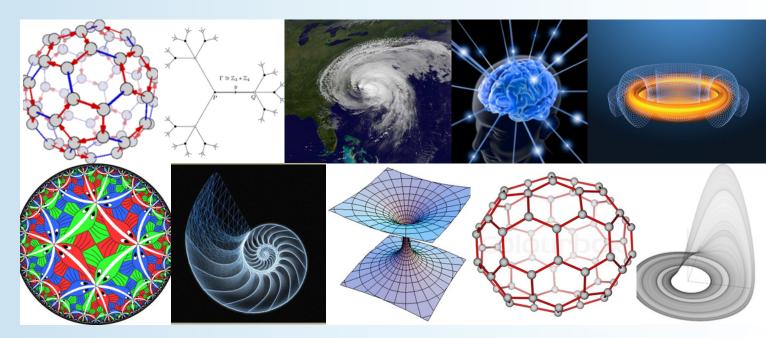
Isotope Geochemistry Chemical Oceanography

Petrology Geodynamics

RESEARCH AREAS

Structural and Petroleum Geology

Department of Mathematics



R&D AND INDUSTRIAL SKILLS

- Advanced Computing Skills
- Probability Applications
- Mathematical models & Differential equations
- Statistical analysis, pattern finding
- Applied optimization techniques
- Critical and analytical thinking
- Complex problem solving
- Quantitative reasoning
- Constructing mathematical and logical arguments

Programs

BS-MS ● M.Sc.

Integrated Ph.D. ● Ph.D.



DEPARTMENT WEBSITE

CURRICULUM

- Probability and Statistics
- Combinatorics and Graph Theory
- Elementary Number Theory
- Real and Complex Analysis
- Ordinary Differential Equations
- Partial Differential Equations
- Measure and Integration
- Functional Analysis
- Linear Algebra
- Abstract Algebra
- Commutative Algebra
- Riemannian Geometry

Partial Differential Equations, Inverse Problems

> Mathematical Finance & Stochastic Process

Differential Geometry Commutative Ring theory

Low-dimensional / Geometric Topologycal Biology

Operator Algebras, K-theory Functional Analysis

Group action on Surfaces Algebraic Geometry and K-theory

> Representation Theory Algebraic Geometry

- Mathematical Finance & Stochastic Process
- Optimization Techniques
- Scientific Computing & Numerical PDEs
- Lie Groups and Lie Algebras
- Ergodic Theory
- Numerical Analysis
- Topology
- Algebraic Topology
- Differential Manifolds
- Differential Geometry of Curves & Surfaces
- Algebraic Geometry
- Operator Theory & Operator Algebras

Numerical Analysis and Scientific Computing

Probability Theory

Topology and Geometry Number Theory

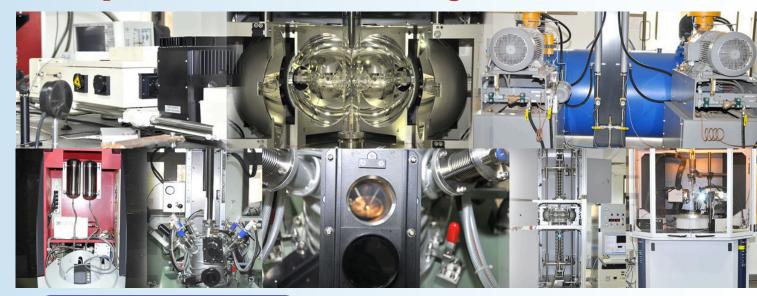
Inverse Problems and Partial Differential Equations

Harmonic Analysis

Automorphic Forms-Number Theory

Dynamical Systems and Ergodic Theory

Department of Physics



R&D AND INDUSTRIAL SKILLS

- Cryogenics
- Thermometry
- Magnetometry
- Radiometry
- Quantum Computing & Sensing
- Nonlinear System Dynamics
- NMR Spectroscopy
- X-Ray Crystallography
- Raman Scattering
- Fluid Dynamics
- Laser and Optical Physics
- Optical Instrumentation
- Monte Carlo Methods
- Fast Fourier Transformation
- Numerical Programming

CURRICULUM

- Atomic & Molecular
 Nuclear & Particle **Physics**
- Classical Mechanics
 Quantum Field
- Computational **Physics**
- Decoherence & Open Quantum **Systems**
- Electrodynamics
- Experimental **Techniques**
- Magnetism & Superconductivity
- Mathematical Methods
- Non-Linear **Dynamics & Chaos**

- **Physics**
- Theory
- Quantum Mechanics & Information Theory
- Relativity & Cosmology
- Semiconductor **Physics**
- Soft Condensed Matter
- Statistical Mechanics
- Ultrafast Optics and Spectroscopy
- Quantum **Engineering**

Programs

BS-MS • M.Sc.

Integrated Ph.D. ● Ph.D.



DEPARTMENT WEBSITE

Condensed Matter Physics

High-Energy Physics

Soft Matter Physics

Astronomy and Cosmology

Atomic, Molecular, and Optical Physics

Computational Physics

Department of Humanities and Social Sciences

Dalit Migrants

SCIENCE AND RELIGION IN INDIA

Assertion, Emancipation, and Social Change

BEYOND DISENCHANTMENT



The Humanities and Social Sciences (HSS) department aims at inculcating a humanistic approach and awareness among students and researchers of science to view it holistically as a domain of knowledge in productive dialogue with society and culture. Students from all departments can take electives in HSS.

CURRICULUM

- Classical Greek
- Cities: Memories, Perceptions and Stories
- Nation and Narration
- Women in India: Concepts and Postulations
- Literature of the Indian Diaspora
- · Critiques of Power: Frankfurt School and French Antihumanism
- An Invitation to Science and Technology **Studies**
- Introduction to Literary Appreciation

RESEARCH

- **Ethics for Research**
- Philosophy for Science

Programs M.A. in Liberal Arts • Ph.D.



DEPARTMENT WEBSITE

Anthropology of Religion

Cognitive Science

Critical Theory

Postcolonial Literature

Philosophy of Science

Social Work

Beyond Academics

















EVENTS & ACTIVITIES

Students Clubs 20+



INTER IISER SPORTS MEET



INTER IISER CULTURAL MEET





SINGULARITY - SCIENCE FEST



AAROHAN - TECHNO CULTURAL FEST



MODEL UNITED NATIONS



NATIONAL CADET CORPS



CLEANINESS DRIVE



PRAYAAS

Recruiters







NOMURA MiQ Dr.Reddy's







TATA TRUSTS























Internship Partners





Australian National University

























हिन्दुस्तान पेट्रोलियम



Alumni Reach

Industry





























































Academia

















































Placement Procedure

STUDENT **PLACEMENT REGISTATION**

- Students interested in placement register with the **Center for Career** Development (CCD), as per Institute Placement Policy
- Students submit CV and details

INVITATION TO **RECRUITERS**

• CCD invites recruiters with relevant information of the Institute and students

INTEREST FROM RECRUITERS

Companies share Job Description (JD) by:

└ Filling Job Notification Form (JNF) ^L Sending mail at ofice_ccd @iiserb.ac.in or placementcell@iiserb.ac.in

JOB DETAILS **SHARED WITH STUDENTS**

- CCD shares Job Description with students • Interested students register for the company's hiring process
 - Profile of interested students is shared with the recruiter

HIRING PROCESS BY RECRUITER

conducted (online or in-

- - [∟] Interviews

Center for Career Development (CCD): Team

Chairperson & Head

Dr. Nirmal Ganguli

Chairperson, CCD Associate Dean, Alumni & International Relations adair@iiserb.ac.in

Dr. Paramita Das

Head In-charge, Center for Career Development head_ccd@iiserb.ac.in

Dr. Rohan Singh

Associate Head In-charge, Center for Career Development rohan@iiserb.ac.in

Faculty Representatives

Dr. Arundhuti Ghatak

Earth & Environmental Sciences arundhutighatak@iiserb.ac.in

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npatil@iiserb.ac.in

Dr. Varun Chaudhary

Biological Sciences varun.c@iiserb.ac.in

Dr. Angshuman Bhattacharya

Mathematics angshu@iiserb.ac.in

Dr. Akshay Modi

Chemical Enggineering akshaymodi@iiserb.ac.in

Dr. Vipin V

Economic Sciences vipin@iiserb.ac.in

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Electrical Engg. & Computer Sc. mitradip@iiserb.ac.in

Dr. Vaibhav Kumar

Data Science & Engg. vaibhav@iiserb.ac.in

Dr. Varun S Bhatta

Humanities & Social Sc. varun@iiserb.ac.in

Student Representatives

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UG, Natural Sciences

Manas Nandan

UG, Humanities & Social Scieces

Saurabh Rai

PG, Natural Sciences

Rajeev Dwivedi

PG, Engineering

Arpan Jain

UG, Engineering

Ardhana M Prabhash

PG, Humanities & Social Sciences

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CONTACT US

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- Mr. Arshi Ali, Superintendent
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