



# PLACEMENT BROCHURE 2024-25

DEPARTMENT OF EARTH SCIENCES  
IIT KANPUR



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## About us

The Department of Earth Sciences at IIT Kanpur focuses on the study of the Earth, encompassing its evolution and internal dynamics, its surface as well as subsurface processes, emphasizing natural and human-induced transformations of the terrestrial environment vis-a-vis sustainable development, given the biggest problem we face in terms of rapidly increasing population.

## Objectives

Integration of quantitative approaches and techniques across various earth systems and applications of geological, geophysical, and other related analytical methods. Training students and developing an aptitude for conjunctive use of field, experimental, analytical, and numerical approaches. Providing industry and research-oriented manpower in various fields of Earth Sciences.

**DEPARTMENT  
OF EARTH  
SCIENCES**





## ***FROM HOD'S DESK***



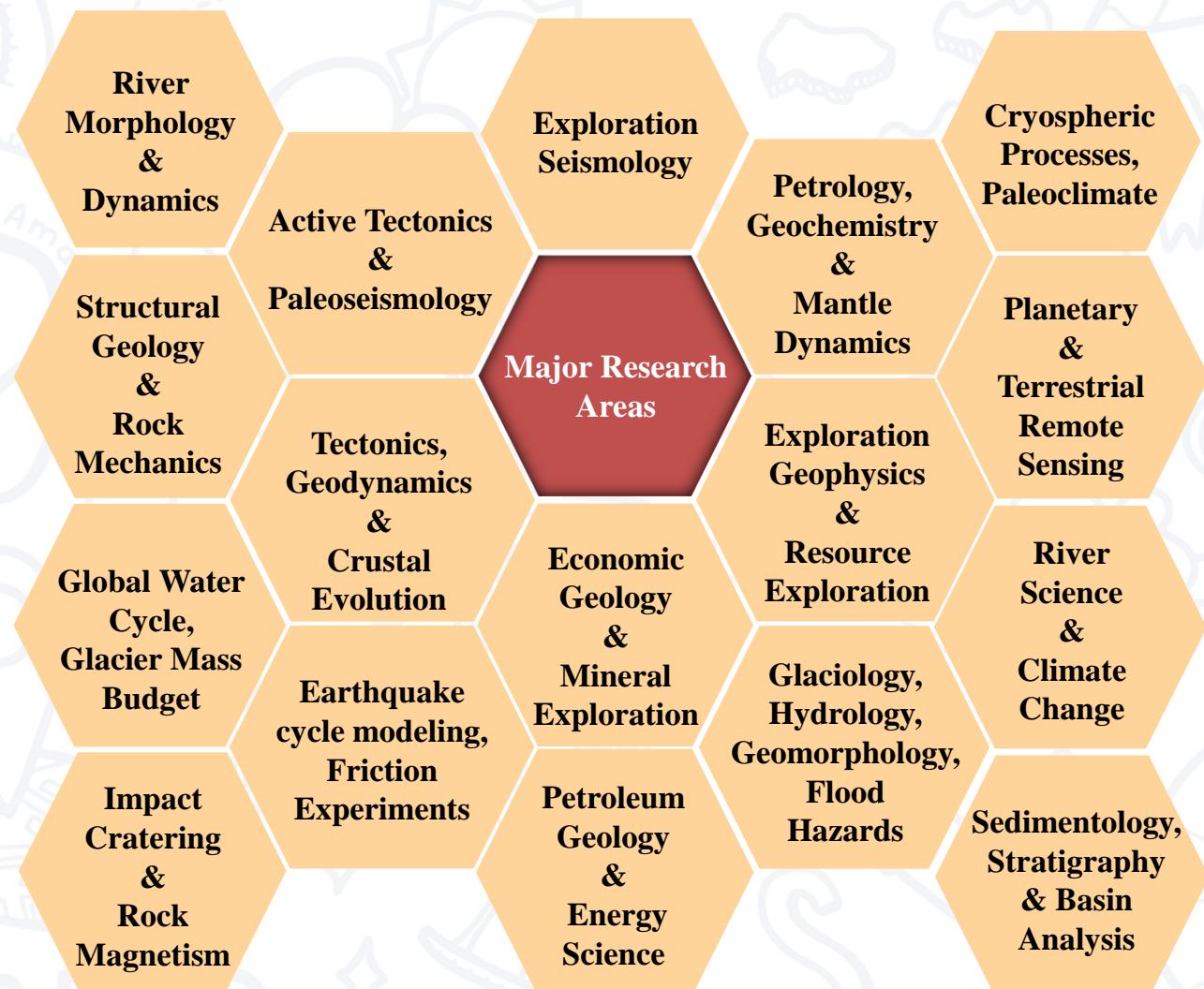
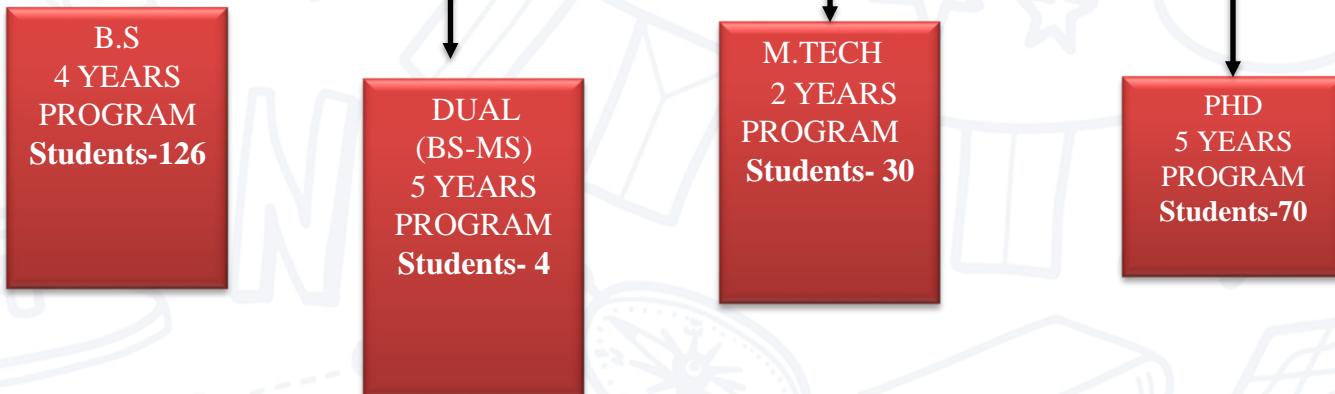
**DR. DEBAJYOTI PAUL**  
PROFESSOR AND HEAD,  
DEPARTMENT OF EARTH  
SCIENCES, IIT KANPUR

“The BS-MS and M.Tech. students of the Department of Earth Sciences, IIT Kanpur get through academic training that includes course works on fundamental and applied Earth Sciences as well as hands-on training on analytical techniques relevant to our society. Particularly, they learn about natural resources (identification and exploration techniques), Solid earth geology, Quaternary geology, Sedimentology and Basin analysis, Natural Hazards, and Applied geochemistry, etc. Our students are well-trained with the theoretical aspects of hydrocarbon exploration from the basic to advanced stages, theoretical and practical Rock Mechanics, Rock Physics, and different geophysical exploration techniques with laboratory-based components. They visit several exploration industries, their mining sites, and beneficiary plants. In our teaching program, field geology is one of the essential components with emphasis on geological mapping and interpreting geological structures. IIT Kanpur campus environment encourages students to develop as better human beings, leaders, and team members.”



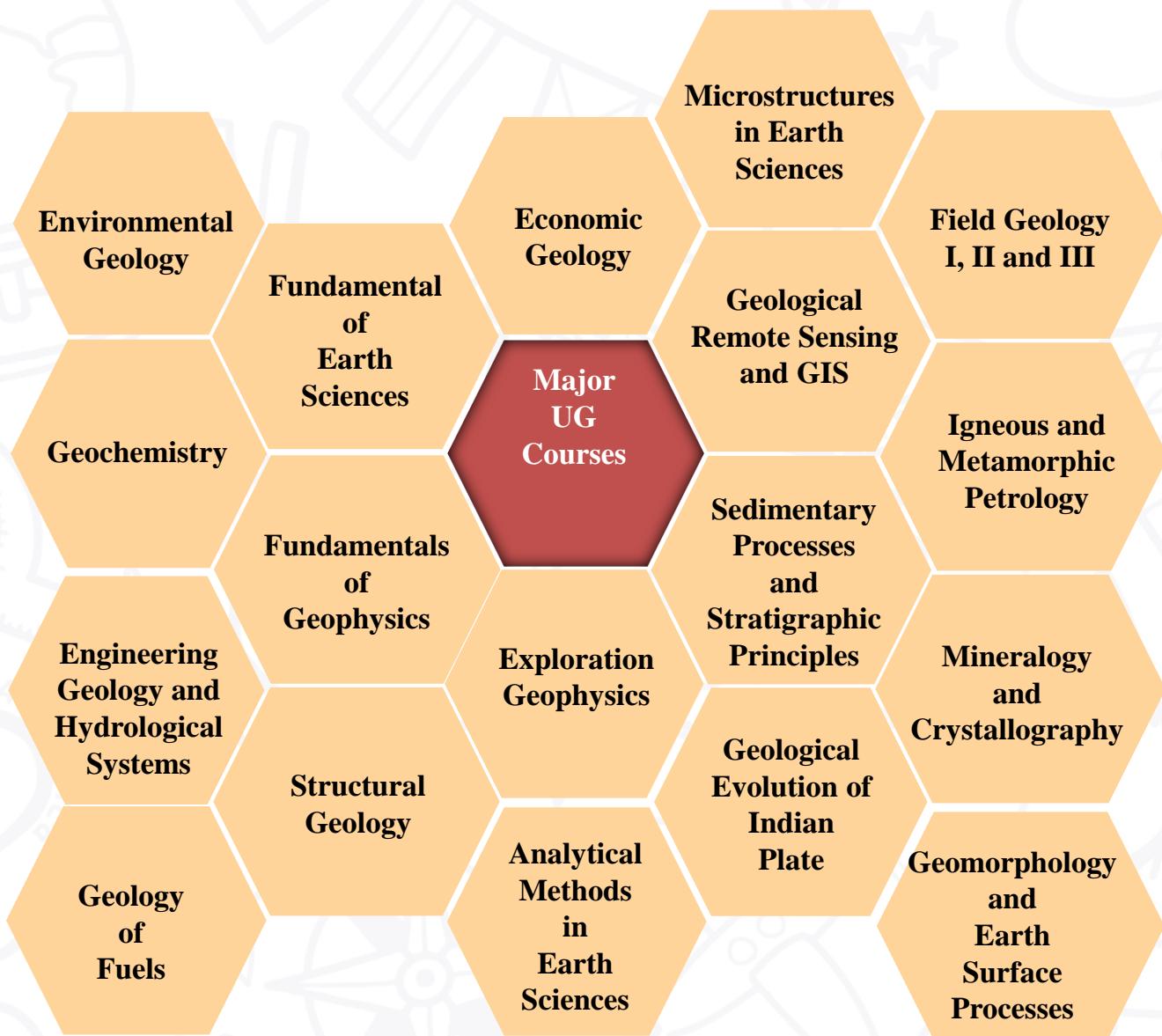


# ACADEMIC PROGRAM





# ACADEMIC UG COURSES



## Institute-level Courses Open to Earth Science Students

- Fluid Mechanics and Rate processes
- Thermodynamics
- Probability and Statistics
- Data Mining and Knowledge Discovery
- Fundamental of Computing
- Data Structure & Algorithm
- Introduction to Machine Learning
- Image Processing
- Macroeconomics
- Engineering Graphics



Dr. Debajyoti Paul

Professor and Head

[\[Homepage\]](#)



Dr. Rajiv Sinha

Professor

[\[Homepage\]](#)



Dr. Shantanu Mishra

Professor

[\[Homepage\]](#)



Dr. Javed N Malik

Professor

[\[Homepage\]](#)



Dr. Animesh Mandal

Associate Professor

[\[Homepage\]](#)



Dr. Indra Sekhar Sen

Associate Professor

[\[Homepage\]](#)



Dr. Tajdarul Hassan Syed

Associate Professor

[\[Homepage\]](#)



Dr. Deepak Dhingra

Associate Professor

[\[Homepage\]](#)



Dr. Dibakar Ghoshal

Assistant Professor

[\[Homepage\]](#)



Dr. Amar Agarwal

Assistant Professor

[\[Homepage\]](#)



Dr. Thupstan Angchuk

Assistant Professor

[\[Homepage\]](#)



Dr. Boddepalli Govindarao

Assistant Professor

[\[Homepage\]](#)



Dr. Rabiul Haque Biswas

Assistant Professor

[\[Homepage\]](#)



Dr. Hiranya Sahoo

Assistant Professor

[\[Homepage\]](#)



Dr. Ishwar Kumar C

Assistant Professor

[\[Homepage\]](#)



Dr. Anupam Banerjee

Assistant Professor

[\[Homepage\]](#)



Dr. Deepa Mele Veedu

Assistant Professor

[\[Homepage\]](#)



Dr. Sumit Chakraborty

Distinguished Visiting Professor

# FACULTY MEMBERS



High-speed diamond abrasive saw, BUEHLER



Low speed diamond saw, MIT CORPORATION



Vibratory polisher, BUEHLER Vibrometer 2



Jaw crusher, BB100, Retsch GmbH Germany



Oven Max temp. 300°C., BENCHTOP EQUIPMENT INC



Water purification system, Direct Q-3, Supreme Chemicals and Instruments, Kanpur



Precision cutter, PROXXON



Rock core drill, CB700, Gemini enterprises



Automatic lapping machine, CHENNAI METCO BAINPOL-AUTO



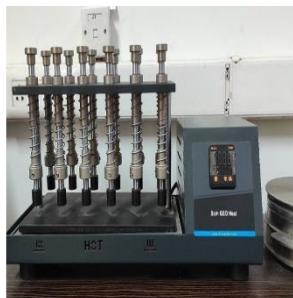
Rock Cutting Machine, Abrismet 250, Bhuler USA



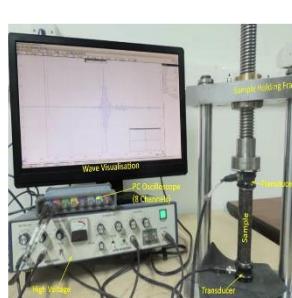
Thin Section preparation unit, Petro Thin, Bhuler USA



Hot plate, Bain Geo Heat, METCO



Longitudinal wave transducers



Microwave sample preparer, Titan MPS, Parkin Elmer, Singapore



Primary rock cutter 152993 MK-101



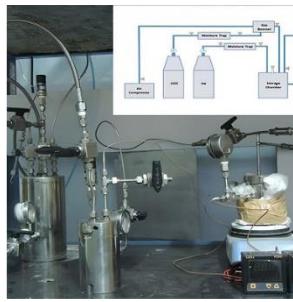
# RESEARCH FACILITIES

## Sample preparation

Digital oscilloscope, Pico Scope 4824, Analytical Electronic Service



High pressure temperature Adsorption Desorption setup



CG6AUTOGRAV™ GRAVITY METER(Scintrex), Scintrex Limited, Canada



Portable magnetic Susceptibility meter SM30, ZH Instruments



T-VLF RECEIVER, VLF, Iris Instrument, France



Gas Pycnometer, PYC-10A, Porus Material Inc



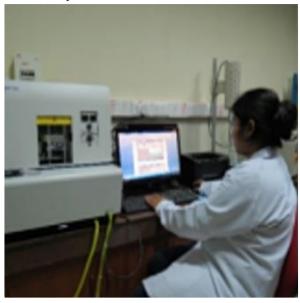
Porosimeter-Permeameter, LP100A-GP101A, Porus Material Inc.



Direct reading digital resistivimeter(DDR3), DDR3, Integrated Geo Instrument, Hyderabad India



Grain Size analyser, Sedi graph III-5120, Micromerits Instruments



Triaxial load frame, WILLE GEOTECHNIK



GEOPHONES, SG-10, Sercel S.A. France



ESS1000 WITH 950-1000 Pound hammer (seismic energy source)



VLF Instrument, GMSV 19 GEM Systems Inc. Canada



He-gas Pycnometer



# RESEARCH FACILITIES

## Physical/mechanical characterization

Matric 600 Pro Hexacopter



Drone, Phantom 4 Pro, DJI



Fixed wing drone, UX5 Arial Imaging rover, Trimble Europe



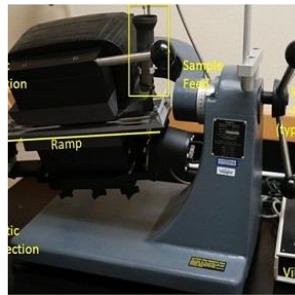
ICPMS, iCAPQc, ThermoFisher Scientific



Atomic Absorption Spectrometer, AAYLST 400, Parkin Elmer, Singapore



Magnetic separator FRANTZ MODEL LB-1



Revolving Centrifuge, R-24, Associated Traders, Kanpur



Scanning Electron Microscope EM, JSM-6010PLUS/LA, JEOL Asia Pte



Liquid Water Isotope Analyzer(LGR), LWIA-45-EP, Los Getos Research, CA



X Ray Diffraction, Panalytical X-PERT<sub>3</sub>, Panalytical



Ion Chromatography, 930 Compact IC Flex, Metrohm



Scanning optical microscope, Leica DM 04



OSL Reader RISO TL/OSL READER MODEL DA-20



## RESEARCH FACILITIES

Chemical/mineralogical/petrographic characterisation & Remote Sensing Instruments

# Research Scholar Day'23



**Prof. Shyam S. Rai (IISER Pune)**



**Dr. Joyesh Bagchi  
Dy Director- GSI, Lucknow**

The Research Scholar Day 2023 was a day-long event that brought together researchers, scholars, and students to showcase their work, discuss new ideas and developments, and collaborate on future research projects. The event featured talks from leading researchers in the field of Earth Sciences, as well as poster presentations and interactive sessions that allowed attendees to learn about the latest research and network with their peers.

## ***DEPARTMENTAL ACTIVITIES***

### Workshop on Petroleum Seismics '23





Dr. D. M. Nathaniel, Nate Petroleum Development & Research LLP, Navi Mumbai delivered a two days talk series on '**Petroleum Seismics**' in a workshop that was held on 17-18th April'23.

The participants were exposed to: concepts of plate tectonics; petroleum geology and geochemistry; petroleum systems and play concepts; qualitative interpretation of well log data; structural and stratigraphic analysis of seismic data in conjunction with well logs and other subsurface data; prospect generation and evaluation. This interactive session emphasized hands-on interpretation of seismic data (hard copies) for basin analysis, prospect generation and its evaluation.

## **Schlumberger Day**

The IIT Kanpur, Earth Sciences department celebrated Schlumberger day in 2018 and 2019, where the students got the opportunity to participate in technical events like the case study presentation related to the geoscience domain.

**The department is now looking towards spreading roots and establishing a promising relationship with the major oil and gas companies in India and abroad.**

## ***DEPARTMENTAL ACTIVITIES***



# EAGE Student Chapter @ IIT-Kanpur



In January 2024, the EAGE Student Chapter at the Indian Institute of Technology, Kanpur was established to serve as a platform for students interested in the Geosciences/Earth Sciences domain. As an official student chapter, our aim is to promote the development and application of geosciences.

## Events Organized:

- Talk by **Dr Satya Narayan** (Senior Geophysicist at ONCG Dehradun) on the scope and future of geoscience, fossil fuel exploration, and an interactive session on job opportunities and internships in geosciences.
- Celebrated **Earth Day** with movie night filled with enlightenment, fun competitions, gifts, snacks, and a great to interaction with **Mr. Robin Singh** (Co-founder of Peepal Farm).



## *DEPARTMENTAL ACTIVITIES*

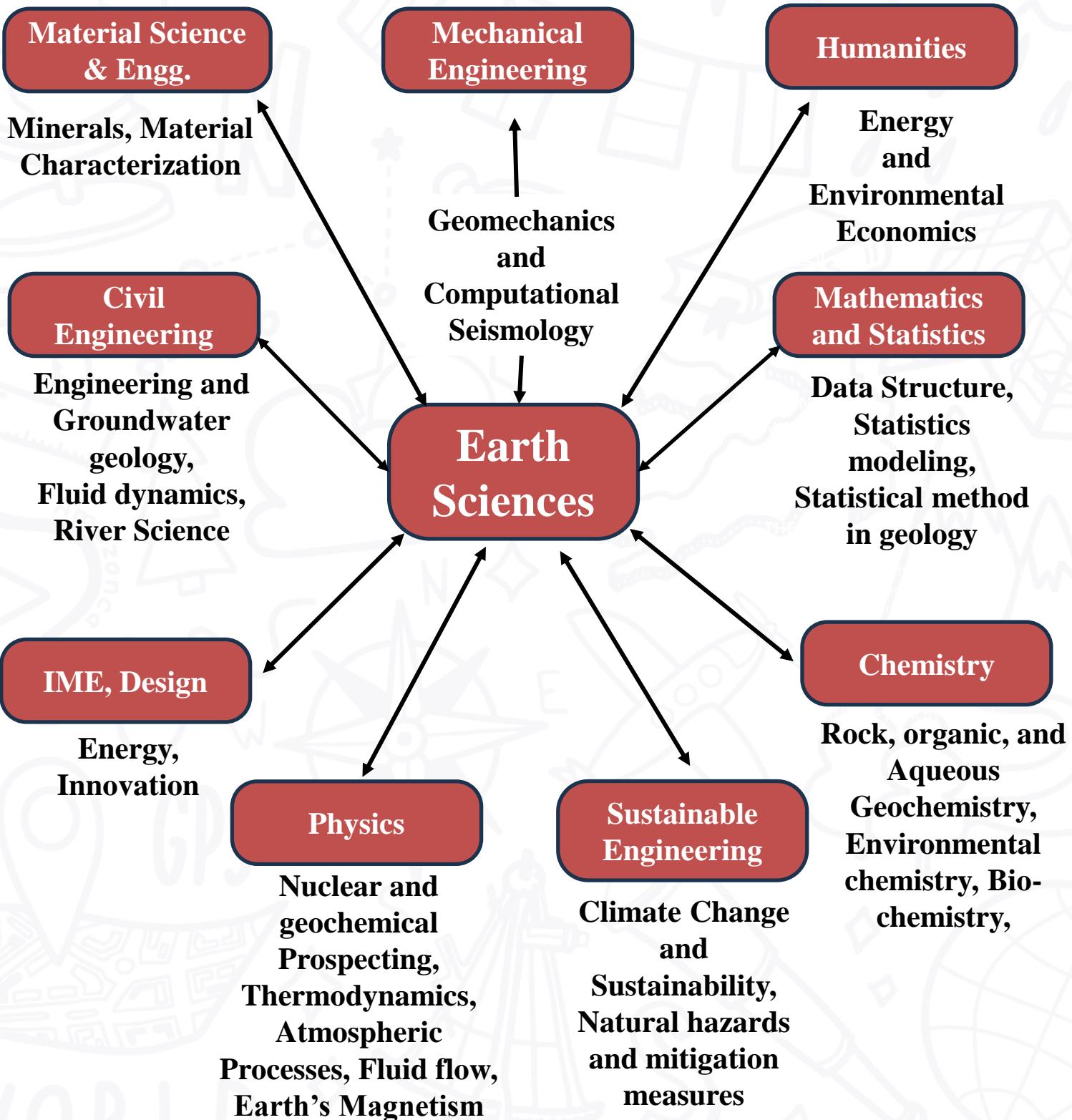
We will organize events, quizzes, workshops, and guest lectures to facilitate knowledge sharing and collaboration among students, academicians, and industry practitioners. Our mission is to promote communication, fellowship, and cooperation within the Geosciences community at IIT Kanpur. We believe that this initiative will enable students at IIT-K to gain more industry exposure.

## Useful links:

<https://eage-iitk-student-chapter.github.io/index.html>

<https://www.linkedin.com/company/eage-student-chapter-iit-kanpur/>

# SYNERGY WITH OTHER DEPARTMENTS

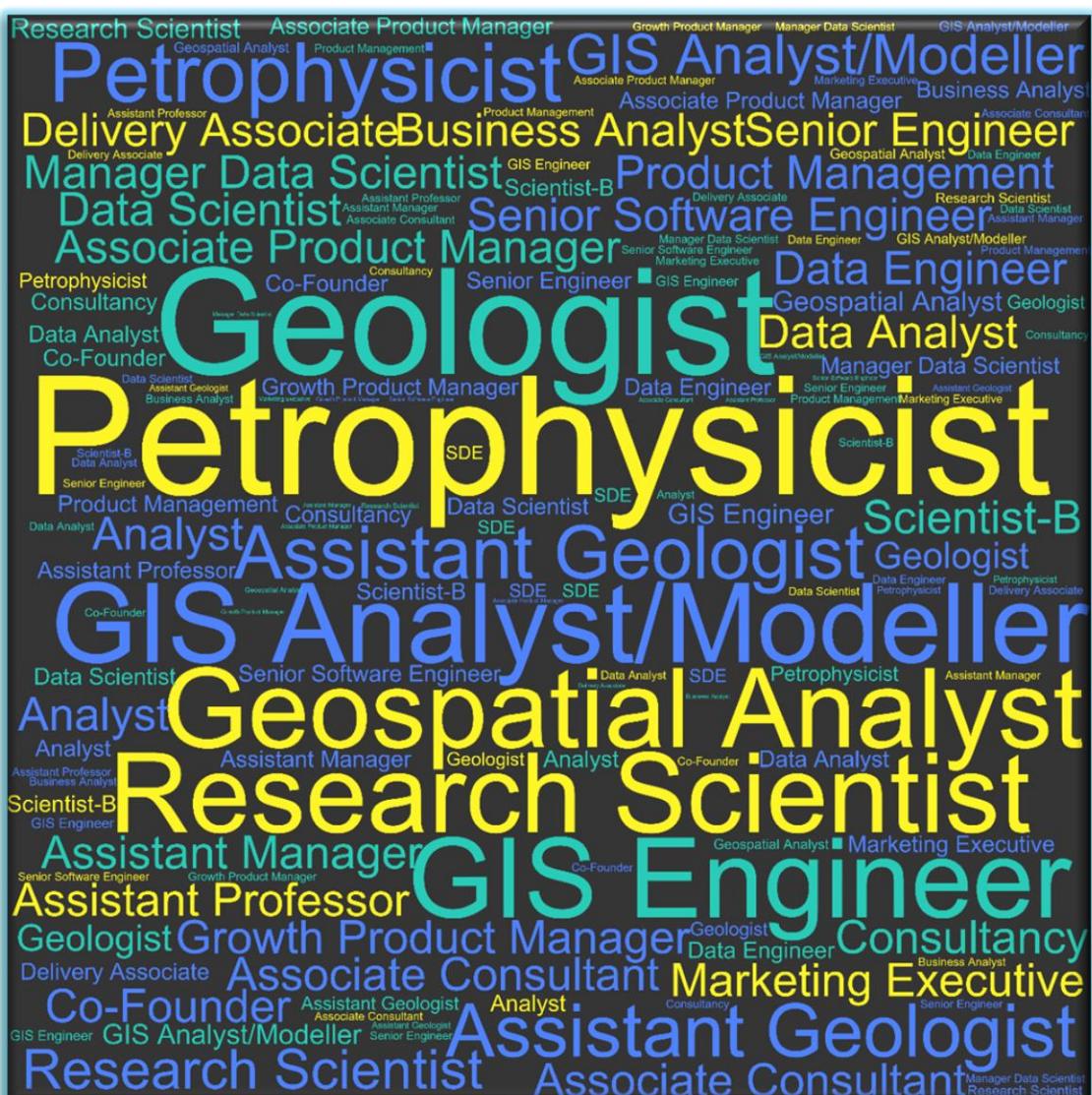


## **IITK, SPO, Placement Stats**



Academic Year	BS		Dual		MT	
	Registered	Placed	Registered	Placed	Registered	Placed
2023-24	14	6	1	1	12	3
2022-23	10	5	1	1	3	1
2021-22	12	9	4	4	3	2
2020-21	6	2	8	5	3	0
2019-20	4	4	0	0	4	2
2018-19	0	0	0	0	3	2
2017-18	0	0	0	0	8	0
2016-17	0	0	0	0	6	0
2015-16	0	0	0	0	6	1

## **Alumni Roles (On & Off Campus)**



# *ALUMNI PLACEMENTS (ON & OFF- CAMPUS)*

# ALUMNI PLACEMENTS (ON & OFF-CAMPUS)



adani



EXL



BuiltX



JPMORGAN  
CHASE & CO.



Microsoft



SHREE CEMENT LIMITED



accenture

cleartax



TIGER  
ANALYTICS



SPINNY



HSBC   
The world's local bank

shadowfax

ICICI Bank

Bank of America



Indian Mine Planners & Consultants

(A Geological, Mining & Environmental Consultants)





Ayushi Nautiyal; Email Id: ayushinau23@iitk.ac.in

**Academic Record:** MTech: 2023-25; MSc.(Geology): 2020-22

**Skills:** OpenDTECT, GMT, QGIS, ML, SQL, Inkscape, Python, MATLAB, Gravimeter, Resistivity meter, Magnetometer, Ultrasonic Oscilloscope, Triaxial test apparatus, He – pycnometer.

**Projects/Summer Training:**

- MTech thesis (ongoing): ML based 3D seismic attribute analysis for Reservoir Characterization.
- MSc dissertation: Geotechnical Characterization of soil samples collected from various landslides in the Himalayan region.
- Summer Internship at Wadia Institute of Himalayan Geology 2021 Karst Geomorphology and associated hydrology in the doon valley)

**Work Experience or Position of Responsibility:**

- Creative media and publicity secretary at Earth Science Society IITK (2023-24)

Sayantan Dey ; Email ID: sayantand23@iitk.ac.in



**Academic Record:** MTech: 2023-25; M.Sc. (Applied geology): 2020-22

**Skills:** QGIS, GCDkit, Sigma plot, igpet, MS Word & Excel, XRF, ICP-MS (sample preparation)

**Projects/Summer Training:**

- MTech. thesis (ongoing): Geochemical studies on felsic rock types of Malani Igneous Suite (MIS).
- M.Sc. dissertation: worked on the genesis and evolution of mafic rocks of Deccan Large Igneous Province (DLIP) through geochemical studies.

**Work Experience/Position of Responsibility:**

- Worked as TA (Teaching Assistant) for placements (Department of Earth Sciences) (2023-24).

Bharat Sharma ; Email: sbharat23@iitk.ac.in

**Academic Record:** MTech ES: 2023-25; BTech Civil: 2018-2022

**Skills:** ML, Computer Vision, Natural Language Process, Python, SQL, Power BI, Excel, Data Visualisation, MATLAB, QGIS and GMT.

**Projects/Summer Training:**

- Thesis: Forward Modelling using Physics Informed Neural Network (PINNs).
- Summer Intern: At MyAnalytics School (MAS), collaborated to develop a Feedback Mechanism that utilised NLP with Retrieval Augmented Generation (RAG) integrated LLM to generate personalised feedback for approximately 300 students.
- Developed a predictive model using an Artificial Neural Network on the Adult dataset to determine Loan Approval.

**Work Experience/Position of Responsibility:**

- Junior Engineer at Shree Riddhi Siddhi Buildwell Ltd., Agra (Jul'2022-Jun'23).
- Manager at Career & Development Wing in Academic and Career Council, IITK, 2024-2025.
- Logistics Head at EAGE Student Chapter, Department of Earth Science, IITK, 2024.
- OTM at Institute Counselling Service, IITK during Winter Admission, 2023.

## MTech Student Profiles



**Sukanya Mandal; Email Id:** sukanyam23@iitk.ac.in

**Academic Record:** MTech: 2023-25; MSc(Applied Geology): 2021-23

**Skills:** MATLAB, MS-Office, CorelDraw, ArcGIS, Remasoft3.0, Anisoft, Cureval8, GMT, IRMS.

**Projects/Summer Training:**

- MTech thesis(ongoing): Reconstruction of paleoclimatic conditions and ecological dynamics of Minicoy Island, Lakshadweep.
- MSc. dissertation: Petrographic and Geochemical analysis of coal samples from Gurha East Lignite Mine, Bikaner district, Rajasthan, India'.
- Summer Intern: Reviewing "Strain Analysis across The Indian Peninsula."

**Work Experience/Position of Responsibility:**

- Volunteer: 7<sup>th</sup> Rock Deformation and Structure Conference, 2022, BHU.
- Student Coordinator and Membership Head, EAGE Student Chapter IIT Kanpur(2024-25).
- Department Placement Coordinator, Student Placement Office IIT Kanpur(2024-25).

**Pratikshya Panda; Email Id:** ppanda23@iitk.ac.in



**Academic Record:** MTech: 2023-25; MSc(Geology): 2020-22

**Skills:** QGIS, Inkscape, GMT, Python, MATLAB, Gravimeter, Magnetometer, resistivity meter, ultrasonic oscilloscope, Triaxial test apparatus, He – pycnometer.

**Projects/Summer Training:**

- MTech th  sis (ongoing)- Malanjkhanda Cu d  p  sits.
- MSc dissertation- Braided and meandering river: an understanding of modern river and their identification from the ancient rock record.

**Work Experience/Position of Responsibility:**

- TA at placement office(2023-24)



**Rahul Raj; Email Id:** rahulraj23@iitk.ac.in

**Academic Record:** MTech: 2023-25; B.Tech: 2017-21

**Skills:** ML, NLP, Python, SQL, Scikit-learn, TensorFlow, MATLAB,, Data Analysis, Power BI, QGIS, GMT.

**Projects/Summer Training:**

- MTech Thesis(ongoing): The Origin of Slow Slip Events and Their Role in Triggering Earthquakes: An Experimental Approach.
- Data Science Intern: My Analytics School Developed Feedback Mechanism using NLP with RAG integrated LLM to generate personalized feedback for approximately 300+ students.
- ML Intern – Mentorness. Build a predictive model for salaries of data professionals and hands-on experience in data analysis, feature engineering, and machine learning model development.

**Work Experience/Position of Responsibility:**

- Manager : Academic Wing - Academic & Career Counselling, IIT Kanpur.
- Secretary: Career Development Wing - Academic & Career Counselling, IIT Kanpur

## MTech Student Profiles



## **Harsh Verma; Email Id: harshverma23@iitk.ac.in**

**Academic Record:** MTech: 2023-25; M.Sc.(Geology): 2021-23

**Skills:** QGIS, Tilia, CorelDraw, Python, Origin Pro 2018 - Data Analysis and Graphing Software, Bruker OPUS FTIR Software, Brunton, GPS, Clinometer, IRMS.

### **Project/Summer Training**

- MTech Thesis (ongoing): "Shockwaves on spectral parameters".
- Project: Analysis of VNIR and FTIR spectroscopy of Dhala and Simlipal Impact crater at ISRO SAC. Pulverized the samples and did XRD spectroscopy in ACMS Laboratories in IIT Kanpur.
- M.Sc. Dissertation on the Topic-“Use of  $\delta^{13}\text{C}/\delta^{15}\text{N}$  isotopes for climate interpretation: study from Chorabari glacier, Kedarnath, UUttarakhand

### **Position of Responsibility:**

- Secretary of Earth Science Society in the Department of Earth Sciences, IIT Kanpur (2023-24).

## **Swastik Deshmukh; Email Id: swastikd23@iitk.ac.in**

**Academic Record:** MTech: 2023-25; MSc(Applied Geology): 2019-21

**Skills:** QGIS , GMT



### **Projects/Summer Training:**

- MTech Thesis (ongoing): Application of remote sensing in glacier mass balance study.
- MSc Dissertation: Petrographic studies of the host rock from the manganese ore of the Bharveli Manganese mine district Balaghat, Madhya Pradesh.

### **Work Experience/Position of Responsibility:**

- Volunteer: 27<sup>th</sup> Indian Colloquium on Micropaleontology and Stratigraphy, 2019, BHU.
- TA of earth science society (2023-24).

## **Mo Zaid; Email Id: zaid23@iitk.ac.in**

**Academic Record:** MTech: 2023-25; MSc.(Geology): 2018-20

**Skills:** QGIS, XRF, Radiometric Dating using TIMS

### **Projects/Summer Training:**

- MTech Thesis(ongoing): "Glaciohydrological Modelling in the Himalayan Region".
- Project: "Improvement in Laboratory capabilities" under Atomic Mineral Directorate R&D, Hyderabad, Department of Atomic Energy, GOI.
- MSc Dissertation -"Impact of Decollement and Sedimentation on Faulting & Folding In Orogenic Wedges: Insights from Analogue Models"

### **Work Experience/Position of Responsibility:**

- Project Associate-I in the Laboratory at Atomic Mineral Directorate, Hyderabad(2022-2023).

## **Soumya Swarup Mohanty; Email Id: soumyasm23@iitk.ac.in**



**Academic Record:** MTech: 2023-25; MSc.(Geology): 2020-22

**Skills:** QGIS,GMT,MS word, excel & PowerPoint

### **Projects/Summer Training:**

- MTech thesis(ongoing): Structural Geology
- M.sc dissertation: Mineral Exploration

### **Position of Responsibility:**

- Department Placement Coordinator, IIT Kanpur (2024-25)

# **MTech Student Profiles**



Nitish Namdeo; Email Id: nitishn23@iitk.ac.in



**Academic Record:** MTech: 2023-25; M.Sc. (Geology): 2019-21

**Skills:** : Python, ML, NLP, KNN, Vectors, SQL, Power BI, Excel, Pandas, NumPy, Matplotlib, Seaborn, Scikit Learn libraries, GMT, QGIS, CorelDraw, Rapid Reservoir Modelling (RRM), Petrel, MATLAB.

**Projects/Summer Training:**

- Summer Training: Data Science Intern at MyAnalytics School (MAS), worked on developing advanced search engines using NLP, KNN, and vector-based methods integrated Retrieval Augmented Generation (RAG) with Large Language Models (LLM) to enhance search precision and relevance.
- MTech thesis(ongoing): Object-based modelling and Geological process modelling in Petrel for sedimentologic, stratigraphic, fracture analysis, with or without oil/gas implication.
- MSc dissertation: Geology around Jabalpur Area

**Position of Responsibility:**

- Media and Publicity Head (Core Team) EAGE, Student Chapter, IIT Kanpur.
- Department Placement Office Teaching Assistant(2023-24).



**Shefali Kuril; Email Id:** kshefali23@iitk.ac.in

**Academic Record:** MTech: 2023-25; B.Tech : 2012-16

**Skills :** Python, Machine Learning, JavaScript, MATLAB, QGIS, ARC GIS, Agisoft Metashape, Cloud compare, GMT, Inkscape, AutoCAD, MS Office, Latex, DGPS(Trimble R12), Soil Moisture Sensors, Multispectral & thermal Cameras sensor, Lidar sensor, Drones.

**Projects/Summer Training:**

- MTech Thesis(ongoing) : Crop Health Monitoring from UAV and ground data & AWS data Trend Analysis in CZO Ganga Basin
- B.Tech Project: Methane Gas production form waste produced in Mess.

**Work Experience/Position of Responsibility:**

- Teaching Assistantship for IRDC (2023-24)



**Priyakshi Borgohain; Email Id:** priyakshib23@iitk.ac.in

**Academic Record:** MTech: 2023-25; MSc.(Geology): 2020-22

**Skills:** ArcGIS, CorelDRAW, Rock Eval 6, QGIS, MS Office

**Projects/Summer Training:**

- MTech thesis(ongoing): Metamorphic Petrology.
- MSc. Dissertation - Hydrocarbon source-rock characterization of shales from Assam-Arakan basin, Assam & Ib river valley, Mahanadi basin, Odisha

**Work Experience/Position of Responsibility:**

- Student Guide in Institute Counselling Service (2024-25).
- TA in Placement Office (2023-24)



**Km Preeti; Email Id:** kpreeti23@iitk.ac.in

**Academic Record:** MTech: 2023-25; MSc. (Geology): 2020-22

**Skills:** ArcGIS, QGIS, MATLAB, Python, ML, Microsoft Word, Excel, Remasoft3.0, Anisoft, Cureval8, GMT, Gravimeter, Resistivity meter, Magnetometer, Ultrasonic Oscilloscope, Triaxial test apparatus, He – pycnometer.

**Projects/Summer Training:**

- MTech thesis(ongoing): Geochemistry
- MSc dissertation topic: Petrography of volcanogenic particles in the Palana Formation of the Gurha Lignite Mines section (Rajasthan).

**Position of Responsibility:**

- Student Guide in Institute Counselling Service (2024-25).

# MTech Student Profiles



 **Anwesh Saha; Email Id:** anweshsaha21@iitk.ac.in

**Academic Record:** BS- Earth Sciences: 2021-25

**Skills:** ArcGIS, MATLAB, ENVI, PYTHON, ML, DL, JULIA

**Projects/Summer Training:**

- Caltech SURF - 2024
- Inter IIT Tech Meet Adobe Behaviour Simulation challenge - 2024
- SURGE - 2023
- The Transformers Nostradamus (Mentor) - 2023
- Starmatic's Intro to Machine and Deep Learning (Mentor) - 2023
- Academic Paper Summarizer using Long former Encoder-Decoder (SnT Hackathon) - 2023

**Position of Responsibility:**

- Team Lead Inter IIT Tech Meet 2023
- Secretary Programming Club 2023
- Secretary DNA Club 2023
- DUGC Nominee 2024

 **Adarsh Mishra; Email Id:** adarshm21@iitk.ac.in

**Academic Record:** BS Earth Sciences 2021-25

**Skills:** Python, R

**Position of Responsibility:**

- Earth Science Society Sports Secretary,
- Organisor Udghosh'23

## ***BS & DUAL STUDENT PROFILES***

 **Vankdoot Rakesh; Email Id:** vrakesh21@iitk.ac.in

**Academic Record:** BS- Earth Sciences: 2021-25

**Skills:** QGIS, ArcGIS, C++, Python, DSA, HTML, SQL, ReactJS, Node JS, Bash, AutoCAD

**Work Experience/Position of Responsibility**

- Senior Executive in Techkriti'22

 **Akshay Patel; Email Id:** pakshay21@iitk.ac.in

**Academic Record:** BS- Earth Sciences: 2021-25

**Skills:** Python, ML

**Projects/Summer Training:**

- Machine Learning in weather prediction

**Work Experience/Position of Responsibility:**

- Self project



 **Pankaj Kumar Meena; Email Id:** pankajkm21@iitk.ac.in

**Academic Record:** BS- Earth Sciences: 2021-25

**Skills:** Python, excel, SQL, power bi, pandas, C++,C, AutoCAD, fusion360, QGIS, ENVI.

**Projects/Summer Training:**

- Application of machine learning to predict earthquake slip event (May'23-July'23)
- HAM-D Robotics club IITK
- Game theory and auction , Self project

**Work Experience/Position of Responsibility:**

- Organizer, Hospitality and Transport, Udghosh'23.
- Secretary, SNT Council IITK
- Secretary, Hospitality and Transport, Antaragni'22.

 **Ravi Kant; Email Id:** ravikant21@iitk.ac.in

**Academic Record:** BS- Earth Sciences: 2021-25

**Work Experience/Position of Responsibility:**

- Head Events and Competitions , Antaragni'24

## ***BS & DUAL STUDENT PROFILES***

 **Midhun M; Email Id:** midhun21@iitk.ac.in

**Academic Record:** BS- Earth Sciences: 2021-25

**Skills:**

- C++, DSA, Machine Learning , SQL, ReactJS, Next JS ,OOPs

**Projects/Summer Training:**

- Earthquake prediction using ML models .
- Banking web app using Next.js
- Pacman Game in C++

 **Amol Garg; Email Id:** amolg21@iitk.ac.in

**Academic Record:** BS Earth Science: 2021-25

**Skills:** Software, Finance

**Projects/Summer Training:**

- Axxela - Market analyst intern.

**Work Experience/Position of Responsibility:**

- Marketing Head, Techkriti'24



 **Shruti Sinha; Email Id:** shrutis21@iitk.ac.in

**Academic Record:** BS Earth Sciences: 2021-25

**Skills:** C, Python, Java, MySQL, Bash, Latex, Seismic Analysis Code, HTML, CartoPy, ObsPy, Scikit-Learn, TensorFlow, Shell Utilities, Pandas, NumPy, QGIS, ENVI Classic 5.6, Craft Ware, MATLAB, AutoCAD.

**Projects/Summer Training:**

- Quantifying  $t^*$  Variability for Body-Wave Seismic Attenuation - IDSC Intern, Earth Scope Consortium (May 2023 - August 2023).
- Summer intern: Estimating Water Quality Parameters Using Machine Learning and Hyperspectral Data - SURGE 2023 Intern, IIT Kanpur (May 2023 - July 2023). Continuing (June 2024 - August 2024)
- Modeling the Mobility of Impact Melt (December 2022 – Present), IIT Kanpur.

**Work Experience/Position of Responsibility:**

- President's Nominee, Cell for Differently Abled People 2024-25
- President's Nominee, Institute Complaints Committee. 2024-25
- Coordinator, Fine Arts Club 2023-24
- Sponsorship Head, European Association of Geophysicists and Engineers. 2024-25
- Academic Department Mentor, Earth Sciences Department. 2023-24
- Team Member, Institute Volleyball Team.
- Senior Executive, Design, Udghosh 2022
- Volunteer Women's Cell 2022-23

 **Yuvraj Singh Kharte; Email Id:** yuvrajsgh21@iitk.ac.in

**Academic Record:** BS Earth Sciences: 2021-25

**Skills:** SQL, C++, C

**Work Experience/Position of Responsibility:**

- Captain, Athletics Team captain IITK

 **Anurag Mandal; Email Id:** anuragm21@iitk.ac.in

**Academic Record:** BS-Earth Sciences: 2021-25

**Skills:** Python, SQL

**Projects/Summer Training:**

- Nextleap Product Management & Marketing Management

**Work Experience/Position of Responsibility:**

- Head, Show Management Techkriti'24

 **Sahil Nain; Email Id:** nsahil21@iitk.ac.in

**Academic Record:** BS Earth Sciences: 2021-25

**Skills:** GitHub, QGIS, ENVI

## ***BS & DUAL STUDENT PROFILES***



 **Vatsalya Roy; Email Id:** vroy20@iitk.ac.in

**Academic Record:** BS + MS (Dual), Earth Sciences: 2020-25

**Skills:** C, C++, HTML, CSS, JavaScript, LATEX, MATLAB, Bash, EJS, ReactJS, NodeJS, Express JS, jQuery, Bootstrap, Git, Micro-Cap, Postman, AWS, Docker, Mango DB, SQL, PostgreSQL.

**Projects/Summer Training:**

- Software Internships: Web development intern at Triponvo, Machine Learning intern at SSIC 2023.
- Thesis Topic: Seismic Deghosting using Machine Learning

**Work Experience/Position of Responsibility:**

- Earth Science Society, IIT Kanpur Treasurer in year 2022-2023

## ***BS & DUAL STUDENT PROFILES***

 **Ashish; Email ID:**aashish20@iitk.ac.in

**Academic Record:** BS + MS (Dual), Earth Sciences: 2020-25

**Skills:** C/C++, python, MATLAB

**Projects/Summer Training:**

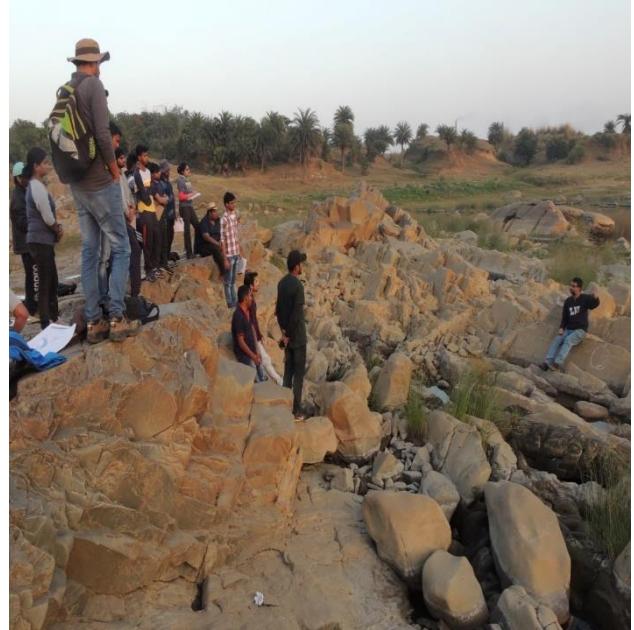
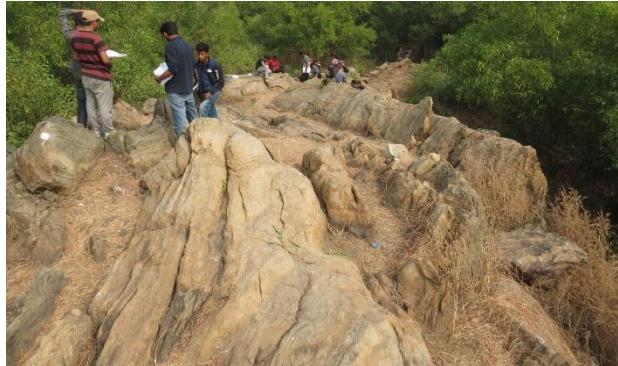
- Separation of ground roll from signal using CNN (Ongoing project )

**Work Experience/Position of Responsibility:**

- Organizer ,Events ,Udghosh (july22-july23)
- Treasurer at EAGE (OCT 23 - Present )



Field geology is vital for geologists as it directly gives them experience (evidence) of both endogenic and exogenic processes. It allows them to observe present and past geological processes, collect first-hand data to interpret the dynamic processes of the Earth to uncover valuable insights about its history, and to evaluate prospectivity of natural resources.



## Field Photos



**Department of Earth  
Sciences**  
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[Homepage]



**Placement Procedures**  
**Email:** [spo@iitk.ac.in](mailto:spo@iitk.ac.in)  
[Student Placement Office]



## Earth Sciences Faculties

[Research Interests] [Awards and Recognitions] [Sponsored Projects]



## *Useful Links*

### Course Details

[BS and Dual]



[MTech/PhD]



### Alumni

[BS, Dual, MTech and PhD]





**Asst. Prof. Hiranya Sahoo**

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### ***Department Placement Coordinators***



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