PLACEMENT BROCHURE 2023-24
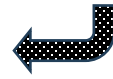
DEPARTMENT OF EARTH SCIENCES
IIT KANPUR
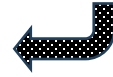
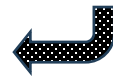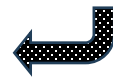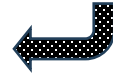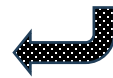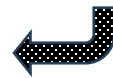# Contents

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.

Dr. Debajyoti Paul
Professor and Head
Department of Earth Sciences, IITK

"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

B.S
4 YEARS
PROGRAM

Students–126

DUAL
(BS-MS)
5 YEARS
PROGRAM

Students– 3

M.TECH
2 YEARS
PROGRAM

Students–36

PHD
5 YEARS
PROGRAM

Students–70

Major Research Areas

- River Morphology & Dynamics
- Exploration Seismology
- Cryospheric Processes, Paleoclimate
- Active Tectonics & Paleoseismology
- Petrology, Geochemistry & Mantle Dynamics
- Structural Geology & Rock Mechanics
- Planetary & Terrestrial Remote Sensing
- Tectonics, Geodynamics & Crustal Evolution
- Exploration Geophysics & Resource Exploration
- Global Water Cycle, Glacier Mass Budget
- Economic Geology & Mineral Exploration
- River Science & Climate Change
- Earthquake cycle modeling, Friction Experiments
- Glaciology, Hydrology, Geomorphology, Flood Hazards
- Impact Cratering & Rock Magnetism

Academic PG Courses

Major PG Courses

- Mathematics for Earth Sciences
- Solid Earth Geophysics
- Physics of Earthquakes
- Remote Sensing and GIS for Geo Resource Evaluation
- Applied Sedimentology and Basin Analysis
- Quaternary Geology and Tectonic Geomorphology
- River Science, Applied Hydrogeology
- Geophysical Methods
- Experimental Rock Mechanics and Rock Physics
- Active Tectonics and Paleoseismology, Natural Hazards
- Aqueous, Isotope, Non–Traditional Isotope Geochemistry
- Geology and Geochemistry of Petroleum
- Advanced Structural Geology
- Geodynamics
- Mineral Resource Exploration
- Rock Magnetism
- Advanced Metamorphic Petrology
- Planetary Geomorphology Processes and Landforms
- Introduction to Professional & communication skills in Earth Sciences

Academic UG Courses

Major UG Courses

- Environmental Geology
- Fundamental of Earth Sciences
- Economic Geology
- Microstructures in Earth Sciences
- Field Geology I, II and III
- Geological Remote Sensing and GIS
- Geochemistry
- Igneous and Metamorphic Petrology
- Fundamentals of Geophysics
- Sedimentary Processes and Stratigraphic Principles
- Engineering Geology and Hydrological Systems
- Exploration Geophysics
- Mineralogy and Crystallography
- Structural Geology
- Geological Evolution of Indian Plate
- Geology of Fuels
- Analytical Methods in Earth Sciences
- Geomorphology and Earth Surface Processes
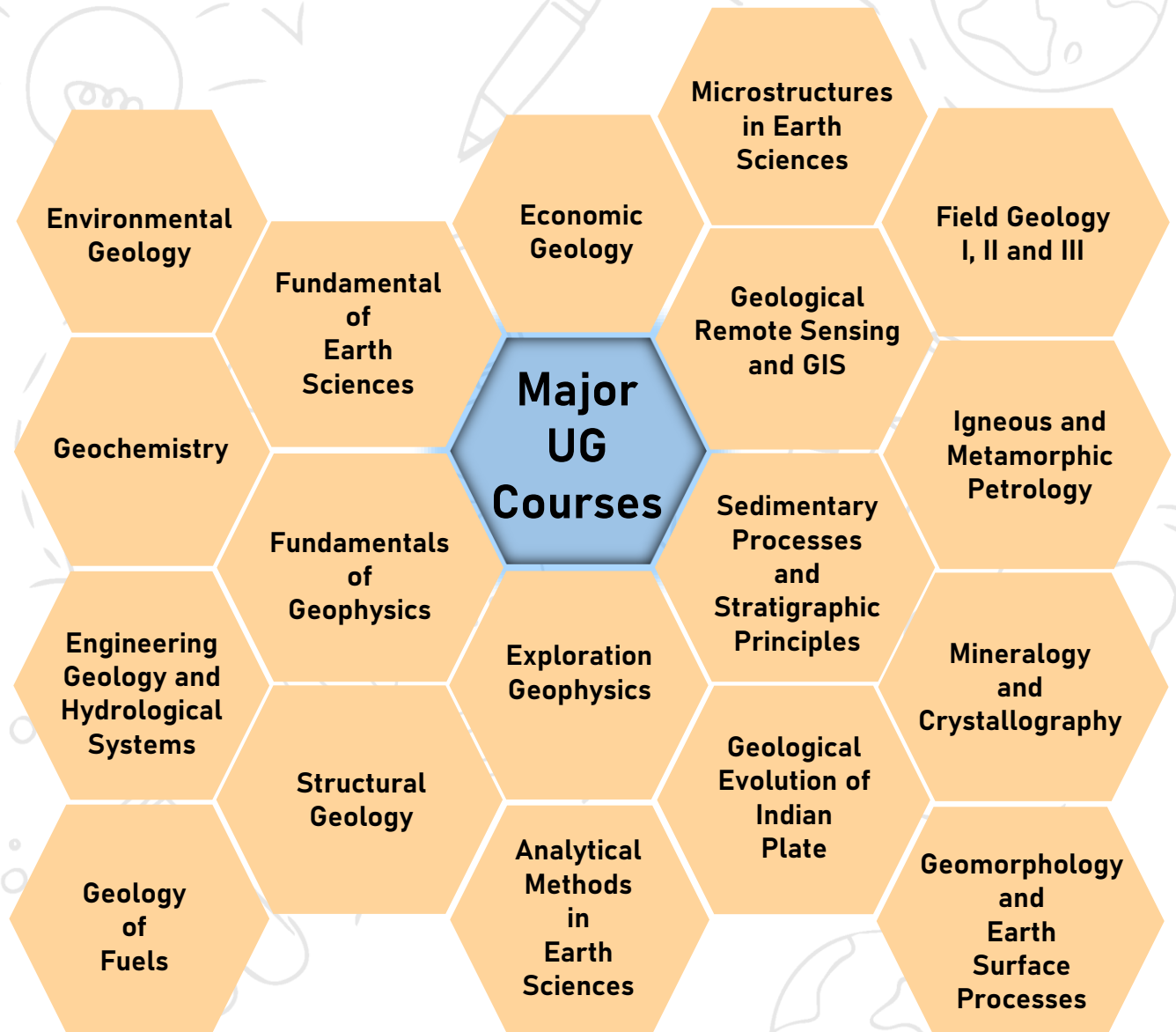
Institute-level Courses Open to Earth Science Students

- 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

Faculty members

Dr. Debajyoti Paul
Professor and Head
[Homepage]

Dr. Javed N. Malik
Professor
[Homepage]

Dr. Rajiv Sinha
Professor
[Homepage]

Dr. Santanu Misra
Professor
[Homepage]

Dr. Deepak Dhingra
Associate Professor
[Homepage]

Dr. Dibakar Ghosal
Assistant Professor
[Homepage]

Dr. Animesh Mandal
Associate Professor
[Homepage]

Dr. Indra S. Sen
Associate Professor
[Homepage]

Dr. Ishwar Kumar C
Assistant Professor
[Homepage]

Dr. Amar Agarwal
Assistant Professor
[Homepage]

Dr. Tajdarul H. Syed
Associate Professor
[Homepage]

Dr. Rabiul H. Biswas
Assistant Professor
[Homepage]

Dr. Anupam Banerjee
Assistant Professor
[Homepage]

Dr. Boddepalli Govindarao
Assistant Professor
[Homepage]

Dr. Deepa Mele Veedu
Assistant Professor
[Homepage]

Dr. Hiranya Sahoo
Assistant Professor
[Homepage]

Dr. Thupstan Angchuk
Assistant Professor
[Homepage]

Dr. Sumit Chakraborty
Distinguished Visiting Professor

For any additional Information please visit the respective **[Homepage]** of faculties

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

RAU, RAUeX, Sercel S.A. France

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

Portable magnetic Susceptibility meter SM30, ZH Instruments

SYSCAL Junior R1 Plus Switch-72 Resistivity meter, SYSCAL Junior R1 Plus Switch, Iris Instrument, France

SYSCAL SWITCH Pro-48 Resistivity meter (EXTENSION UNIT), SWITCH Pro 48, Iris Instrument, France

Direct reading digital resistivity meter (DDR3), DDR3, Integrated Geo Instrument

VLF Instrument, GSMV 19 GEM Systems Inc. Canada

T-VLF by Iris Instruments, France

Digital Gravimeter, CG6 Autograv by Scintrex Canada

Proton Precision Magnetometer (Overhauser)

Portable magnetometer, MagDrone R3, SENSYS

Multi-electrode Restivity Meter (with 120 electrodes), Syscal R1 plus by Iris Instruments, France

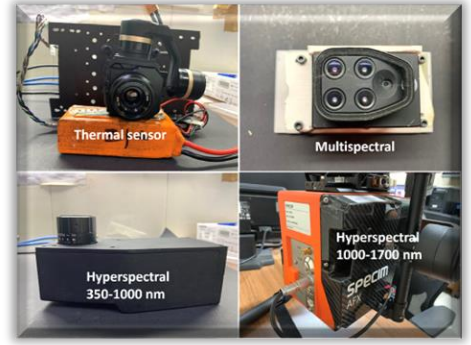Four Electrode Resistivity Meter, Aquameter CRM 500 by Anvic Systems, India

3C Tromino

Ground Penetrating Radar

Terrain Mapping Image rower system, R10–V10, Trimble Europe

Thermal, multispectral, hyperspectral sensors

TX 8 scanner, Trimble Europe

He-gas Pycnometer

Fixed wing drone, UX5 Arial Imaging rover, Trimble Europe

Compression Testing machine, Heico Engg
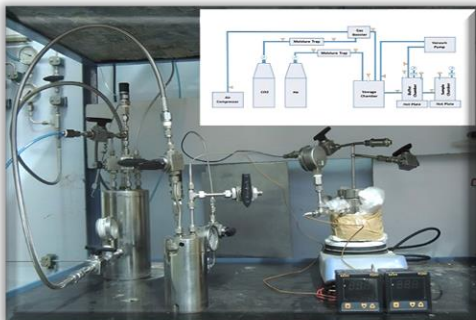

Porosimeter–Permeameter, LP100A–GP101A, Porus Material Inc.

Triaxial load frame, WILLE GEOTECHNIK

Gas medium deformation rig

High pressure–temperature Adsorption Desorption setup

Pulse decay permeameter

Rock Cutting Machine, Abrismet 250, Bhuler USA

Research Facilities

30 MPa pressure vessel (triaxial cell)

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

X Ray Diffraction, Panlytical X-PERT3, Panalytical

Rock core drill, CB700, Gemini enterprises

ICPMS, iCAPQc, ThermoFisher Scientific

Gamma Spectroscopy ORTEC DSPEC jr 2.0

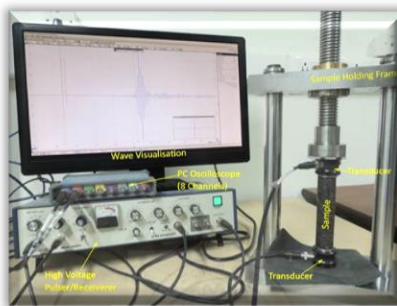
Agilent® 8900 Triple Quad ICP-MS

Total Station

OSL Reader RISO TL/OSL READER MODEL DA-20

Ion Chromatography, 930 Compact IC Flex, Metrohm

Gas Pycnometer, PYC-10A, Porus Material Inc.

Longitudinal wave transducers, Blue Star Engg

Matric 600 Pro Hexacopter

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.

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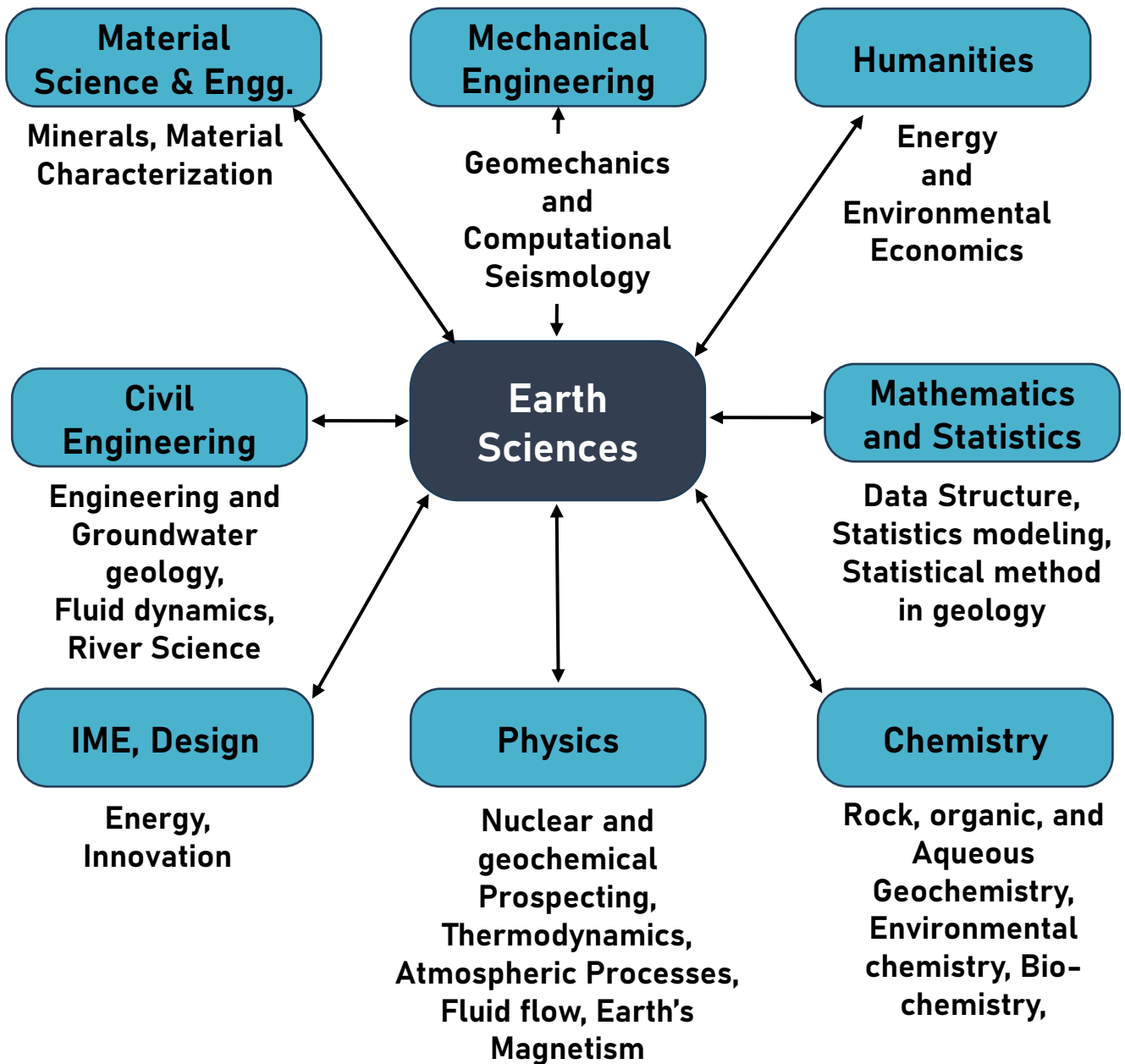
The IIT Kanpur, Earth Sciences department celebrated Schlumberger day in 2018 and 2019, where the students got the opportunity to participate in technical events like the case study presentation related to the geoscience domain.

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

Synergy with other Departments

Material Science & Engg.

Minerals, Material Characterization

Mechanical Engineering

Geomechanics and Computational Seismology

Humanities

Energy and Environmental Economics

Civil Engineering

Engineering and Groundwater geology, Fluid dynamics, River Science

Earth Sciences

Mathematics and Statistics

Data Structure, Statistics modeling, Statistical method in geology

IME, Design

Energy, Innovation

Physics

Nuclear and geochemical Prospecting, Thermodynamics, Atmospheric Processes, Fluid flow, Earth's Magnetism

Chemistry

Rock, organic, and Aqueous Geochemistry, Environmental chemistry, Bio-chemistry,

IITK, SPO, Placement Stats

Academic Year	BS		Dual		MT	
	Registered	Placed	Registered	Placed	Registered	Placed
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)
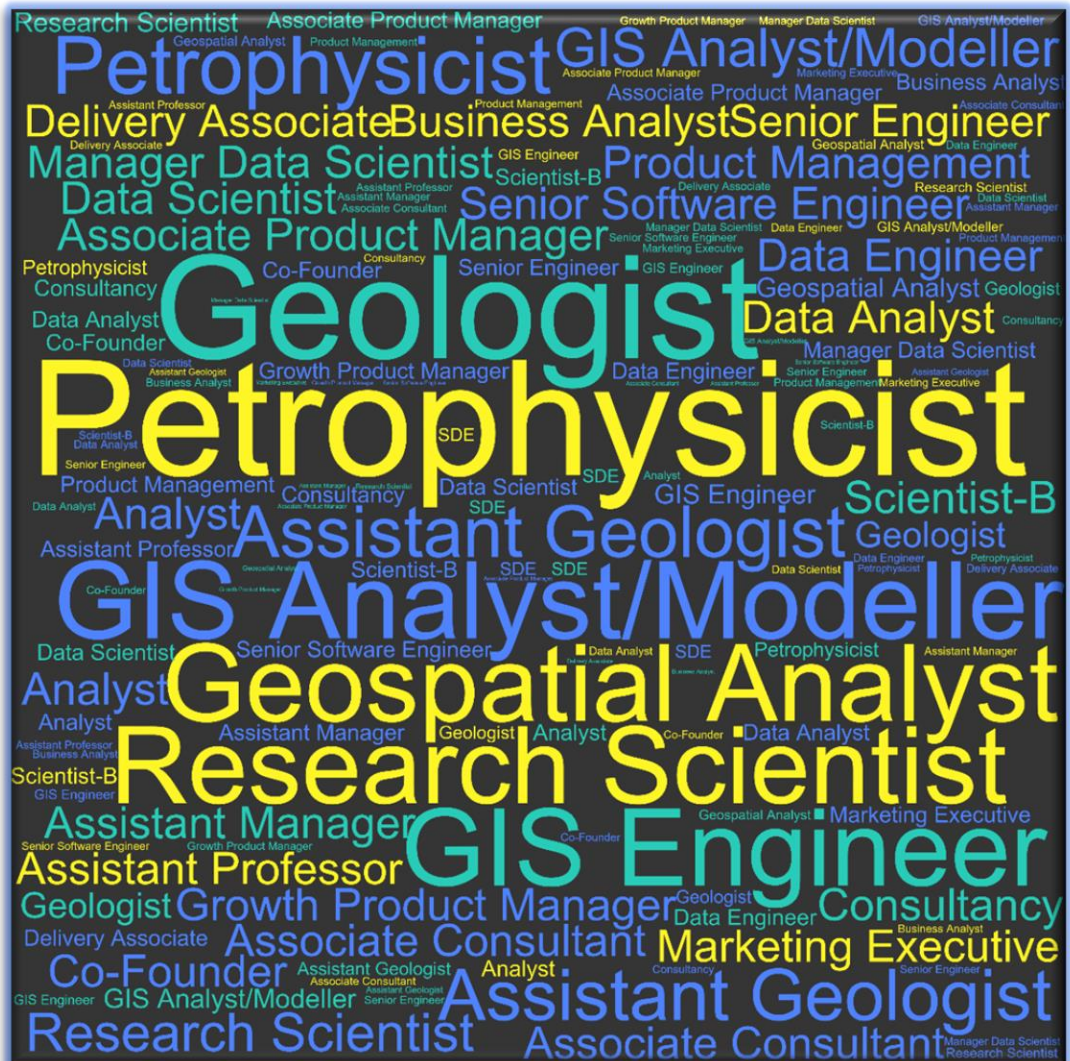
Name: Vinay Joshi
Email Id: vinayjoshi22@iitk.ac.in

Academic Record:
- M.Tech: 2022–24
- M.Sc: 2016–18

Skills:
- C, C++, Python, HTML, CSS, QGIS, Fusion 360, Excel, SQL, PowerPoint, Git
- MATLAB, CorelDraw, LaTeX, PowerBI.

Projects/Summer Training:
- Geological evidence of structural changes in the right-lateral strike–slip fault Khetpurali Taksal fault (KTF): | M.Tech Thesis
- Micropaleontological techniques on foraminifera and bivalves: Summer Intern at Wadia Institute of Himalayan Geology

Work Experience or Position of Responsibility:
- Oil Field Instrumentation (India) Pvt. Ltd. (Dec '19 – Mar '22)
- Department Placement Coordinator (SPO, IIT Kanpur)

Name: Ankit Yadav
Email Id: ankity22@iitk.ac.in

Academic Record:
- M.Tech: 2022 – 24
- B.Tech: 2017 – 21

Skills:
- Python, Command line, MATLAB , MS Office
- LaTeX, QGIS, GMT, Cloud-Compare, LASTOOLS
- Trimble GNSS, LAI sensors, Soil Moisture Sensors, Drones

Projects/Summer Training:
- Implement Morphological Edge Detection Procedures
- Estimation of LAI of vegetation crops using UAV based LIDAR 3D Point Clouds data

Work Experience/Position of Responsibility:
- DPGC Student Convenor for M.Tech
- Department Placement Coordinator for M.Tech
- Student Guide for Y23 students

Name: Gourav Jaiswal
Email Id: gouravj22@iitk.ac.in

Academic Record:
- M.Tech: 2022–24
- B.Tech: 2018–22

Skills:
- Python, Git, Java, Canva
- PowerBI, SQL, QGIS

Projects/Summer Training:
- ML for Seismic Facies Segmentation: M.Tech Thesis: On a 3D Seismic data using U-Net Algorithm
- Physical Unclonable Function Prediction: Linear sparse Model to breach encryption of a PUF
- CAPTCHA Prediction with Deep Learning

Work Experience/Position of Responsibility:
- Core Member: Sopan Ashram
- Vice President: Earth Science Society
- Senior Secretary Officer: Udghosh at IITK
- Head Prefect: Sacred Heart School

Name: Anamika Sarkar,
Email Id: anamikas22@iitk.ac.in

Skills:
- Geological fieldwork, ICPMS, EPMA, Gravitometer, Magnetometer, Resistivity meter, Ultrasonic Oscilloscope, Uniaxial and triaxial test apparatus, Python, Ms office, Git, CorelDRAW, QGIS, ArcGIS, MATLAB

Academic Record:
- M.Tech: 2022– 24
- M.Sc: 2019–21

Project:
- Petrography and Mineral Chemistry Analysis of Amphibolite Dykes of Simdega, Chotanagpur Gneissic Complex
- Geochemical study of the carbonatite-hosted REE deposit of Kamthai, Late Cretaceous polychronous Sarnu Dandali alkaline complex, NW India
- CO_2 Flow Kinetics In Dual-Porous Anisotopic Jhanjra Coal: An Implication On Carbon Sequestration

Position of Responsibility:
- Event Organiser for ES Society, IITK (Dec,22 – July,23)

M.Tech Student Profiles

Name: Anil Kumar
Email Id: anilkr22@iitk.ac.in

Academic Record:
- M.Tech ES: 2022-24
- MSc Geology: 2016-18

Skills:
- Python, SQL, MATLAB
- MS office, LaTeX, QGIS, Inkscape, helium pycnometer, Perple_X

Projects/Summer Training:
- CO_2 Flow Kinetics in Dual-Porous Anisotropic Jhanjra Coal: An implication on carbon sequestration
- Detecting a Rock or a Mine

Work Experience/Position of Responsibility:
- Student Organizing Member in Research Scholar's day at IIT Kanpur, 2023.
- Visited Government schools in villages and delivered interactive classes in local medium as a part of NSS.

Name: Divya Vani Gunturu
Email Id: divya22@iitk.ac.in

Academic Record:
- M.Tech: 2022-24
- B.Tech: 2013-17

Skills:
- Python, SQL, Tableau, PowerBI, ML, Ms office
- JavaScript, C#

Projects/Summer Training:
- Familiarization of Digital Data on satellite Image
- HR data analysis using SQL and PowerBI

Work Experience/Position of Responsibility:
- Assistant System Engineer at TCS, Hyderabad
- Database executive for ESS

Name: Yeldurthi Ganesh
Email Id: yeldurthi22@iitk.ac.in

Academic Record:
- M. Tech: 2022-24
- B. Tech: 2018-21

Skills:
- Python, SQL, Tableau, PowerBI,
- DSA, Machine Learning, Git and LaTeX

Projects/Summer Training:
- Credit Card Fraud Detection
- Sales Analysis using SQL and Tableau

Work Experience/Position of Responsibility:
- Member of Shiksha Sopan, NGO
- SG in Counselling Team of IITK

Name: Riddhiman Ghosh,
Email Id: riddhiman22@iitk.ac.in

Academic Record:
- M.Tech: 2022-24
- M.Sc.: 2020-22

Skills:
- R, Python, SQL
- Gravimeter, Pycnometer, Permeameter, Ultrasonic Oscilloscope, Magnetometer

Projects/Summer Training:
- Evaluation of Drought Indices through Integration of Satellite Data and Numerical Modelling in Bundelkhand,India
- Spatial distribution of Chromium in Soil from Kanpur and Source Analysis
- CO_2 Flow kinetic in Dual-porous Anisotropic coal: An Implication on Carbon Sequestration
- E-Training of Basics of GIS and its Application (GSITI , INDIA)
- Paleontological and Stratigraphical Field Work

Position of Responsibility:
- TA at Earth Science Society, IITK
- Coordinator at Paleontological Society Of India, North Zone

Name: Swarn Raj Singh
Email Id: swarn22@iitk.ac.in

Academic Record:
- M.Tech: 2022–24
- B.Tech: 2018–22

Skills:
- Python, MATLAB
- SQL, Git, QGIS,

Projects/Summer Training:
- Analysis of synthetic Quartz gouge to investigate mechanism of slow-fast earthquakes
- CNN Image Classification

Work Experience/Position of Responsibility:
- Engineer at TATA Projects Ltd (2018-2019)
- Senior Executive Udghosh 2022
- Cultural Secretary ESS 2023

Name: Rishabh Yadav
Email Id: rishabhy22@iitk.ac.in

Academic Record:
- M.Tech: 2022–24
- B.Tech: 2018–22

Skills:
- QGIS, GMT, Canva, LaTeX, Shell
- MATLAB, Python, Tensorflow, Git, Tablue, PowerBI, SQL
- Command Line

Projects/Summer Training:
- Quakecaster
- Investigation of slow-slip events preceding fast earthquake using a subduction zone analogue model: M. Tech Thesis
- Advanced Road extraction from multispectral high-resolution images.

Work Experience/Position of Responsibility:
- Student Guide in Counselling Service
- Teaching Assistantship
- Teaching volunteer at RSK Centre, IIT Kanpur

Name: Ashmita Dasgupta,
Email Id: ashmitad22@iitk.ac.in

Skills:
- Python, MATLAB, MS-Office, CorelDraw, GeoRose, GeoOrient, ArcGIS, QGIS
- Triaxial Apparatus, pulse decay permeameter, Ultrasonic oscilloscope, Gas pycnometer, XRD, Gravimeter, Magnetometer, Resistivity meter.

Academic Record:
- M.Tech: 2022– 24
- MSc: 2019 – 21

Projects/Summer Training:
- Estimation of variation of slope of River Teesta using QGIS
- Introduction to mining techniques and exploration schemes.
- Structural Study of grabens in Mars.
- Variation of petrophysical properties of tight porous rocks with differential stress.
- CO_2 flow kinetics in dual porous Jhanjra Coal

Work Experience/Position of Responsibility:
- Post Graduate Workshop and Seminar Co-Ordinator (Industry and Academia), Earth Science Placement Team, IITK.

Name: Sooraj Kumar
Email Id: soorajk22@iitk.ac.in

Academic Record:
- M.Tech: 2022–24
- B.Tech : 2018–22

Skills :
- Python, MATLAB
- LaTeX, QGIS

Projects/Summer Training:
- Luminescence Dating Method
- Design and cost estimation of roller barrier system for highway accidental safety

Work Experience/Position of Responsibility:
- Working as teaching assistantship in RB Lab
- Worked as member in ESS and helped in organising events Freshers, Farewell and Sports Day

Name: Anubhav Jain
Email Id: anubhavj22@iitk.ac.in

Academic Record:
- M.Tech: 2022–24
- B.Tech: 2018–22

Skills:
- Python, MATLAB, SQL
- Power BI, TABLEAU, Git

Projects:
- Calculating heat loss between layers of lunar crater
- Earthquake Magnitude Prediction using ML

Position of Responsibility:
- Company Coordinator, Student's Placement Office
- Senior Executive UDGHOSH 2022
- Secretary Creative Media and Publicity ESS 2022

Name: Pratik Chougule
Email Id: pratikpc22@iitk.ac.in

Academic Record:
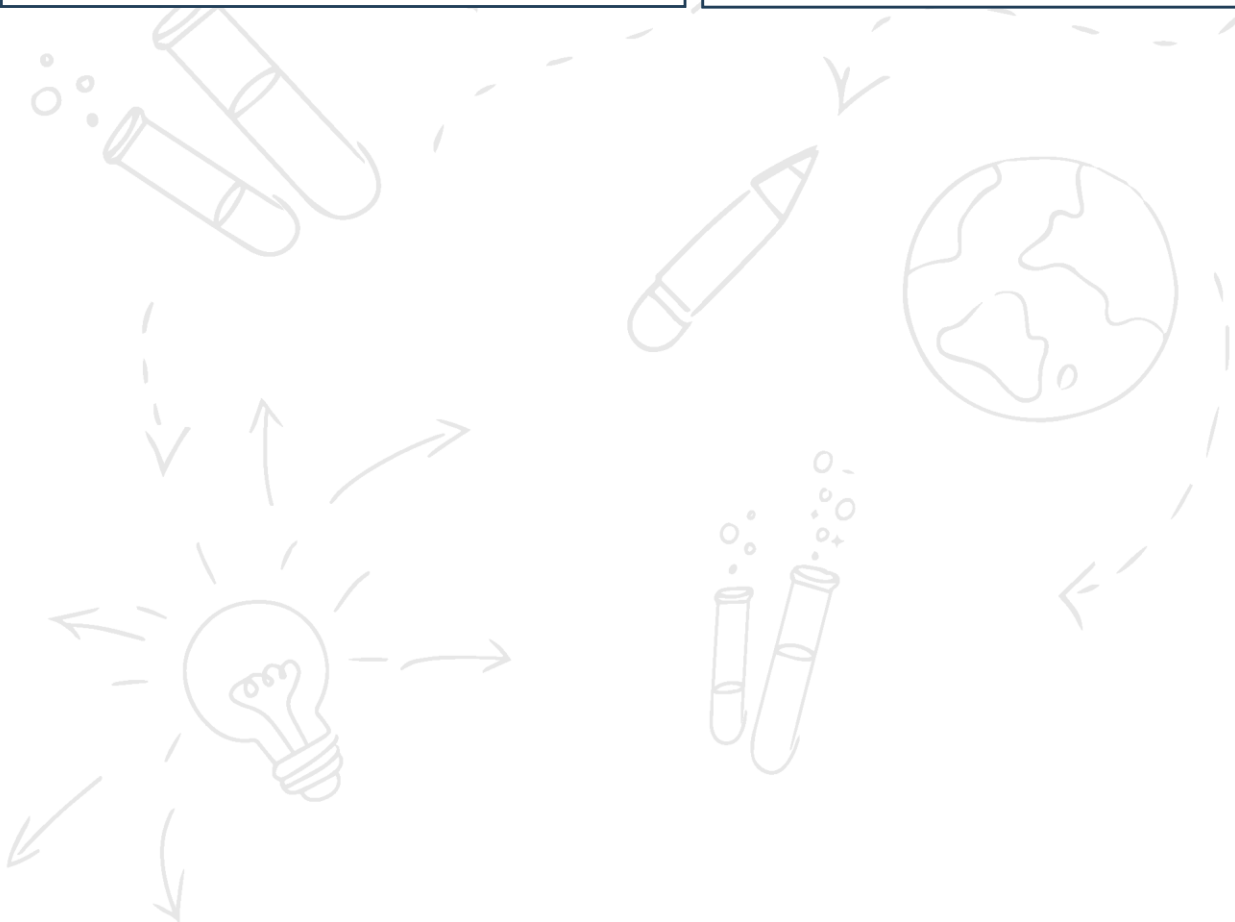- M.Tech: 2022–24
- B.Tech: 2018–22

Skills:
- Python, MATLAB, SQL
- Power BI, TABLEAU, Git

Projects:
- 2D modelling of VLF–EM data for near surface app.
- Earthquake Magnitude Prediction using ML

Position of Responsibility:
- Senior Executive UDGHOSH 2022
- Head Sports Secretary ESS 2022
- Teaching Assistant ES655A.

Name: Navneet Singh
Email Id: snavneet20@iitk.ac.in

Academic Record
- BS- Earth Sciences: 2020–24

Skills:
- Python, C++, JavaScript, Matlab
- Machine Learning, Deep Learning
- ReactJs, Pandas, scikit–learn, numpy

Projects/Summer Training:
- SURGE (May'22 – June'22): Topic: Testing Deep Learning Models on LiDAR Data
- Data Engineering Intern (June'23-July'23) Vaticinari Technologies

Position of Responsibility:
- Head, Web and App, Antaragni'22, IIT Kanpur
- Secretary, Robotics Club, IIT Kanpur

Name: Divam Badaya
Email Id: divamb20@iitk.ac.in

Academic Record:
- BS- Earth Sciences: 2020–24

Skills:
- C++, Python, Scikit-Learn, TensorFlow, Power BI
- Data Analysis, Machine Learning, Deep Learning

Projects/Summer Training:
- Summer Analytics (Consulting and Analytics Club, IIT Guwahati) (Jun 23-July 23)
- Sentiment Analysis Using Deep Learning (Nov 22- Dec 22)

Work Experience/Position of Responsibility:
- Organizer, Web and App, Udghosh'23, IIT Kanpur

Name: Himanshu Kumar
Email Id: Khimanshu20@iitk.ac.in

Academic Record:
- BS- Earth Sciences: 2020–24

Skills:
- C++, Python, JavaScript, Python, MATLAB
- NumPy, Pandas, ENVI, QGIS, Github

Projects/Summer Training:
- SURGE (May'22-Jul'22): Evaluation of Data Classification Methods for Mineralogy Application
- UGP (Jan'23-May'23): Evaluation of Floor Surface Roughness Properties of Stevinus Impact Crater on Moon
- Data Science Intern (May'23-Aug'23): Simple0
- Data Science Intern (May'23-Aug'23): Atreya.AI

Work Experience/Position of Responsibility:
- Academic Department Mentor, ES, IITK
- Secretory, Dramatics Club, IIT Kanpur

Name: Ashu Pal
Email Id: ashup20@iitk.ac.in

Academic Record:
- BS- Earth Sciences: 2020–24

Skills:
- Python, C++, C, JavaScript.
- Machine Learning, Deep Learning.
- ReactJs, Pandas, scikit–learn, Numpy.
- React, EJS, Flutter, Node.js, Express.js, MongoDB.

Projects/Summer Training:
- Web Developer Intern (May–July'23): Ovolo, Tides IIT Roorkee.
- Google Data Analytics Professional Certificate.

Name: Yashwant Devatwal
Email Id: yashwantd20@iitk.ac.in

Academic Record:
- BS- Earth Sciences: 2020-24

Skills:
- Python, Java, C++, JS, Git, AutoCAD
- Flask, Django, QGIS

Projects/Summer Training:
- Mineral Properties Using Image Processing (Feb23-Apr23): Prof Amar Agarwal (Assistant Professor, IITK)
- Grain Boundary Identification (May23-Aug23):Prof Amar Agarwal (Assistant Professor, IITK)

Work Experience/Position of Responsibility:
- Secretary at Student film Society

Name: Pranjal Jain,
Email Id: pranjal20@iitk.ac.in

Academic Record:
- BS, Earth Sciences: 2020-24

Skills:
- C, C++, Python, SQL
- Scikit-learn, Tensorflow, Keras, NLTK, LaTeX, AutoCAD, MS Office

Projects/Summer Training:
- Sentimental Analysis on Twitter Data | Cognic Systems Pvt Ltd
- Deep Learning: Vision Projects and Analysis| Cognic Systems Pvt Ltd
- Mobile Price Range Prediction | Cognic Systems Pvt Ltd
- Forecasting CO_2 emissions: Course Project, Mentor: Prof. Deepak Dhingra
- Portfolio Optimization using Markowitz Model
- Compare Stock Returns with Google Sheets

Work Experience/Position of Responsibility:
- Dept. Undergraduate Committee, | DUGC, IITK
- Department Academic Mentor | ES, IITK
- Cultural Secretary | Earth Science Society, IITK
- Secretary | Photography Club IITK

Name: Somya Misra
Email Id: somyam20@iitk.ac.in

Academic Record:
- BS- Earth Sciences: 2020-24

Skills:
- Machine Learning, UNET
- Python, C++, JS, Git, AutoCad

Projects/Summer Training:
- Image Processing with ML- Prof.Amar Agarwal, (Assistant Professor, IITK)
- Fracture Detection using ML- Prof.Amar Agarwal (Assistant Professor, IITK)

Name: Sarthak Goyal
Email Id: sarthakg20@iitk.ac.in

Academic Record:
- BS Earth Science: 2020 -24

Skills:
- Java, C++, Js, python
- Full stack development

Projects/Summer Training:
- Summer Analyst (May'23 -July'23) : Goldman Sachs
- Developer Intern (Sept'22 – Nov'22) : Redopact

Work Experience/Position of Responsibility:
- Member of chess team IIT Kanpur

Name: Tarun Beniwal
Email Id: tarunb20@iitk.ac.in

Academic Record:
- BS Earth Sciences: 2020–24

Skills:
- C, C++, Algorithms, Python
- HTML5, CSS, JavaScript, SQL, MATLAB, React, Matplotlib, Sklearn, Scipy, Seaborn, OpenCV, MS-Office

Projects/Summer Training:
- Software Developer Intern – Neuranics Lab (May'23 – July'23)
- Data Analyst – YoShops (May'23 – July'23)

Work Experience/Position of Responsibility:
- Organizer – Events , Udghosh'22, Annual Sports Festival, IIT Kanpur May'22–May'23
- Senior Executive – Events , Udghosh'21, Annual Sports Festival, IIT Kanpur May'21–May'22

Name: V Tarun Rao
Email Id: vtrao20@iitk.ac.in

Academic Record:
- BS Earth Sciences: 2020–24

Skills:
- SQL, Python, Pandas, Numpy, PowerBI
- MATLAB, ENVI. GMT (Generic Mapping Tool)

Projects/Summer Training:
- Finance Intern (Jul'23–Aug'23) at NIEI
- Zomato Restaurant Data Analysis (Apr'23–May'23) using SQL and BI dashboards

Position of Responsibility:
- Sports Coordinator (Volleyball), Games and Sports Council, IIT Kanpur

Name: Manish Kumar
Email Id: kmanis@iitk.ac.in

Academic Record:
- BS Earth Sciences: 2019–24

Skills:
- C/C++, Python, JavaScript, SQL
- Machine Learning, Numpy, Pandas, Matplotlib, Seaborn, Scikit Learn, Keras

Projects/Summer Training:
- Hotel booking cancellation and demand prediction
- Stock prices prediction using machine learning and Python
- Data visualization to track the coronavirus outbreak

Work Experience/Position of Responsibility:
- Principal Security Officer (PSO), Techkriti,2022

Name: Pranjal Pratap Dubey
Email Id: dpratap@iitk.ac.in

Skills:
- PM Utilities– Figma, Miro, Excel, PowerBI, Notion, G-Suite, SQL, Productboard, LaTeX, Sketch, Google Analytics
- C, C++, Python, MATLAB, GoLang, Javascript, Java, Ruby,

Academic Record:
- BS-Earth Sciences: 2019–24

Projects/Summer Training:
- Handwritten Arithmetic Expression Evaluator| ERA IITK
- IITK-Coin
- Doremon Den

Work Experience/Position of Responsibility:
- Product Management Intern, Alphawave Tech Pvt. Ltd.
- Research Associate, ITAM Mexico
- Research Associate, PIL IIT Kanpur
- Vice President, ShARE, IIT Kanpur
- Coordinator, Quiz Club, IIT Kanpur

Name: Lavudya Rajkumar
Email Id: lraj@iitk.ac.in

Skills:
- Python, HTML, CSS, SQL, C++*, Java Script,Advanced Excel, LaTeX, Tableau, Power BI, ReactJs, VS Code, Github, My SQL, flexbox

Academic Record:
- BS Earth Science: 2019–24

Projects/Summer Training:
- Omnifood – Responsive Web Design (self-project)
- SQL Data Exploration and Tableau Visualization (self project)
- Introduction to Data Analysis using Microsoft Excel (coursera project)

Work Experience/Position of Responsibility:
- Principal Security Officer | Techkriti'22, IIT Kanpur
- Senior Security Officer| Udghosh'22, IIT Kanpur
- Creative, Media & Publicity Secretary| Earth Science Society, IIT Kanpur

Name: Sulakshna Mallik
Email Id: sumallik@iitk.ac.in

Academic Record:
- BS + MS (Dual), Earth Sciences: 2019–24

Skills:
- C++, Python, SQL
- MS Excel, VBA, ArcGIS, ENVI, MATLAB, AutoCAD, LaTeX

Projects/Summer Training:
- Field Engineer Intern – Schlumberger (May'23–Jul'23)
- Summer Research Intern – National University of Singapore (May'22–Jul'22)
- Data Analyst Intern – ConnectedH (Aug'21–Sep'21)

Position of Responsibility:
- Founder and Overall Coordinator – Sustainability Cell, IITK
- Organizer | Public Relations, Techkriti'22

Field Photos

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 resources.
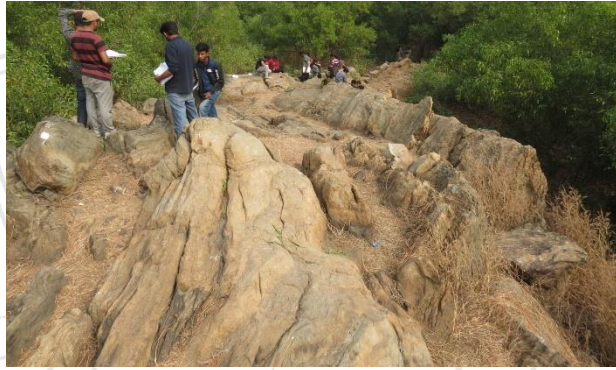
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[Homepage]

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[Student Placement Office]

Earth Sciences Faculties

[Research Interests]

[Awards and Recognitions]

[Sponsored Projects]

Course Details

[BS and Dual]

[MTech/PhD]

Alumni

[BS, Dual, MTech and PhD]

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