

**Department of Earth Sciences
Indian Institute of Technology Roorkee**

**Area of specialization available for
Ph.D. admissions - Spring Semester, 2025-26**

S. No.	Areas of specialization with vacancies
1.	Himalayan Tectonics, Migmatites and Leucogranite generation in Himalayas
2.	Hydrogeochemistry/Stable Isotopes/Organic Pollutants/Microplastics
3.	Sedimentology, Sequence Stratigraphy, Basin analysis
4.	Seismic wave scattering & propagation; AI/ML for signal and image processing
5.	Remote Sensing, Geohazards, Glaciology
6.	Precambrian Tectonics
7.	Engineering Geology & Rock Mechanics
8.	Gravity & Magnetic Modelling & Inversion, Satellite Gravity Applications (GRACE/GOCE: Water Resources Management), AI-ML/Fractals/Wavelets Applications in Geophysical Signal Processing
9.	Geochemistry, Petrology, Planetary Geology
10.	Hydrogeophysics
11.	Seismology, Seismic Source Mechanism, FWI
12.	Structural Geology
13.	Paleoceanography and Paleoclimatology
14.	Ore Deposit Geology
15.	Modelling and Inversion of Magnetotelluric and ERT data



18/11/25

Chairman,
D.R.C.,
Department of Earth Sciences,
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