

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

**Research area(s) of the Faculty members where vacancy exists  
for Ph.D. admission in the Autumn Semester, 2024-25**

S. No.	Area(s) of specialization
1.	Strong motion modelling and inversion, HPC application in Seismics and Seismology
2.	Structural Geology, Fabric Analysis, Fracture Topology, Microstructure
3.	Seismology, Seismic inversion, tomography, AI/ML methods in Geosciences, HPC applications
4.	Paleoclimatology & Paleoceanography, Paleoclimate
5.	Ore Deposit Geology
6.	Structural Geology and Tectonics
7.	Seismic wave propagation and Scattering, ML in signal processing, Numerical modeling of seismic interferometry (Parallel computation)
8.	Sedimentology, Sequence stratigraphy, Ichnology
9.	Gravity & Magnetic Studies, Satellite gravity applications (GRACE/GOCE), Water resources management, Geophysical Signal Processing (Time series/Wavelet/Nonlinear/Fractal analysis), Crustal deformation studies (GNSS/GPS studies)
10.	Archaean tectonics, Precambrian and Phanerozoic tectonics, Metamorphic Petrology, Geochronology, Geochemistry

*Sandeep Siy*  
*9th Mar 2024*

Chairman, DRC,  
Department of Earth Sciences

अध्यक्ष / Chairman  
वि० सं० सं० / D.R.C.  
भू-विज्ञान विभाग / E.Sc. Deptt.

*Pr. Singh*  
*9/05/24*

Head,

Department of Earth Sciences

विभागाध्यक्ष  
भू-विज्ञान विभाग  
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