

**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY**  
**DEPARTMENT OF EARTH SCIENCES**

Following are the research areas, in which, admission for the PhD program will be offered in the Autumn Semester, 2024-25.

1. Active Tectonics and Tectonics
2. Economic Geology and Ore Deposit Modelling
3. Electromagnetism
4. Engineering Geology
5. Geochronology and Thermochronology
6. Geomagnetism
7. Geomechanics
8. Geophysical Signal Processing
9. Geostatistics
10. GPS and Geodesy
11. Gravity and Magnetic
12. Hydrogeology
13. Ichnology
14. Igneous Petrology
15. Isotope Geology, Geochemistry and Geochronology
16. Machine Learning applications in Geophysics
17. Metamorphic Petrology
18. Micropaleontology
19. Mineralogy
20. Near Surface Geophysics: Groundwater, Mineral and Hazards Applications
21. Numerical Modelling in Geophysics
22. Organic Geochemistry
23. Passive Seismology: Earthquake Seismology, Seismic Ambient Noise and Seismic Tomography
24. Petroleum Geology
25. Petrophysics
26. Planetary Geophysics
27. Reservoir Geophysics
28. Satellite Geophysics: Satellite gravity, Magnetic and Hydrogeodesy
29. Sedimentology

30. Seismic Imaging, Wave Propagation and Inverse Problems

31. Stratigraphy

32. Structural Geology

33. Vertebrate Palaeontology

34. Volcanology

NOTE: Candidates, who apply for any research areas other than those mentioned above, will not be called for interview.

Kumar Hemant Singh  
(Dept. PhD Admissions Coordinator 2024-25)