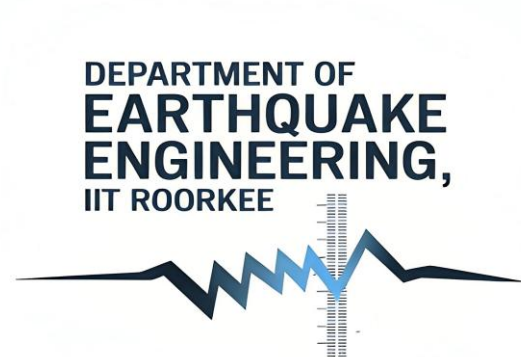


ANNUAL REPORT

2023-24



Department of Earthquake Engineering
Indian Institute of Technology Roorkee
Uttarakhand-247667

Annual Report 2023-2024

- **NAME OF THE DEPARTMENT:** EARTHQUAKE ENGINEERING
- **BRIEF DRISRIPTION ABOUT THE DEPARTMENT:** The department of Earthquake Engineering is an interdisciplinary department which was established with the aim of training manpower in the specialized field of Earthquake Engineering to deal with the problems posed by strong earthquakes to engineering infrastructure.

Total no. of faculty Adjunct/ Visiting –teaching faculty	16 NIL
No. of Post Doc. Fellows	01
No. of PMRF	05

- **NEW FACULTY JOINED: - NIL**
- **ACADEMIC ACTIVITIES** - The Department of Earthquake Engineering offers postgraduate M. Tech (admission through GATE/sponsorships) and Ph.D. (through selections/ sponsorships) programs in following specializations:
 - Soil Dynamics
 - Structural Dynamics
 - Seismic Vulnerability and Risk Assessment

Programmes Offered	Students on-roll	Degrees Awarded
B. Tech	NIL	NIL
M. Tech	30	29
Ph. D	13	04

- **R & D ACTIVITIES:**

Project Status	Sponsored	Amount Rs. In lacs)	Consultancy	Amount Rs. In lacs
New	04	493.99	02	88.99
Ongoing	02	21.395	02	
Completed			01	

- **MAJOR FACILITIES:** - Whose valuation is above 50.00 lakhs
- (i) Shake Table Facility, (ii) Pseudo-dynamic test facility, (ii) Masonry lab, (iv) Dynamic triaxle test system, (v) Ground penetration radar, (vi) MASW geophysical characterization system

- **STUDENTS ACHIEVEMENT:**

Mr. Akshay Kumar & Mr. Anirudh Painuly, M.Tech. (Structural Dynamics), guided by Prof. P. C. Ashwin Kumar, secured **First** position (out of 33 teams) in '**NATIONAL COMPETITION FOR CIVIL / STRUCTURAL ENGINEERING STUDENTS FOR THE BEST INNOVATIVE STRUCTURAL STEEL DESIGN**' organized by INSDAG.

- **FACULTY AWARDS AND RECOGNITION:**

1. **PROF. B. K. MAHESHWARI:** Elected as a **President** of Indian Society of Earthquake Technology (ISET) for a term of 2 years (beginning April 2023).

- Nominated member of following 2 Technical Committees of Int. Society of Soil Mechanics and Geotechnical Eng. (ISSMGE) for a term of 2 years (since April 2023).

(a) TC 203: Geotechnical Earthquake Eng. and Associated Problems

(b) TC 212: Deep Foundations

2. **PROF. M. L. SHARMA:** Best commercialization for Strong Motion Sensor Award, IIT Roorkee, 2024

- 44th ISET Annual Lecture, Challenges in Seismic Hazard Assessment: Indian Perspective, December 08, 2023

- **NOTABLE ACTIVITIES IN THE DEPARTMENT:**

1. Video Recorded **NPTEL Certification Course** on “Geotechnical Earthquake Engineering”, recording is done April-May 2023. Course offered in Autumn 2023.
2. Offered Video Recorded **NPTEL Certification Course** on “Earthquake Resistant Design of Foundations”, in Spring of 2023-24.

- **Publication: -**

	Book	Book Chapters	Paper in conferences	Paper in Journal	IP (Patent/Copyright, Design/International Patent/ PCT) filed	IP (Patent/Copyright, Design/International Patent/ PCT) granted/Registered
Total		01	11	14	01	02