

Curriculum Vitae

Yogendra Singh, *Ph.D., M.ASCE, e-Aff.M.EERI, MIE, MISTE, Fiset*



Designation: Professor

Postal Address: Department of Earthquake Engineering
Indian Institute of Technology Roorkee
Roorkee - 247 667, INDIA

Ph. No.: +91-1332 -285534 (Off.)/285042 (Res.)
Fax No.: +91-1332-276899/273560
Email: yogendra.singh@eq.iitr.ac.in
yogendra.eq@gmail.com

Web: eq.iitr.ac.in/Singh_Y_

Date of Birth : 18th April 1968

UNIVERSITY EDUCATION

B.E. (1989) in Civil Engg. from IIT Roorkee (then University of Roorkee) in **First Division with Honours.**
M. Tech. (1990) in Structural Engg. from IIT Delhi.
Ph.D. (1994) in Structural Engg. from IIT Delhi.

PROFESSIONAL EXPERIENCE

July 19, 2018 - till date: Railway Bridge Chair, IIT Roorkee
October 23, 2012 - till date: Professor, Deptt. of Earthquake Engg., IIT Roorkee
May 01, 2016 - March 31, 2019: Head, Deptt. of Earthquake Engineering, IIT Roorkee
January 01, 2013 - April 30, 2016: Associate Dean, Faculty Affairs, IIT Roorkee
March 06, 2007-October 22, 2012: Associate Professor, Department of Earthquake Engineering, IIT Roorkee
July 11, 2001 - March 05, 2007: Assistant Professor, Department of Earthquake Engineering, IIT Roorkee
July 17, 1995 - July 10, 2001: Lecturer, Department of Civil Engineering, Jamia Millia Islamia, New Delhi
April 26, 1994 - July 16, 1995: Scientist Fellow, Structural Engineering Research Center, Ghaziabad

RESEARCH INTERESTS

- Seismic Vulnerability and Risk Evaluation
- Performance Based Design of Buildings and Bridges
- Inelastic Seismic Response of Structures
- Seismic Evaluation and Retrofitting of Structures
- Soil-Structure Interaction
- Earthquake Engineering in Hilly Regions

HONOURS

- IITR Outstanding Teacher Award - 2006, 2022.
- AICTE Career Award for Young Teachers - 2000.
- Dr. Jai Krishna Prize and Medal, Institution of Engineers (India), 2008-09.
- Sir Arthur Cotton Memorial Prize, Institution of Engineers (India), 2011.
- Convener Working Group to draft the performance based seismic design code, Bureau of Indian Standards, Committee CED:39.
- Member of the Expert Committee for preparation of "CPWD Manual for Repair, Rehabilitation and Retrofitting of RC Structures."
- Member, Expert Group on Seismic Vulnerability and Risk Analysis, constituted by National Disaster Management Authority (NDMA).
- Member of National Institute of Disaster Management (NIDM) Technical Committee to Study the Reconstruction Technology and Design Criteria for Reconstruction of Houses in A&N Islands, appointed by the Ministry of Home Affairs, Govt. of India.
- Member Core Group for drafting of Disaster Risk Reduction (DRR) guidelines for bank-financed infrastructure, constituted by National Disaster Management Authority (NDMA).

RESEARCH SUPERVISION

Ph.D. Theses (Completed)

17. Payal Gwalani, (2023) "Risk-Targeted Seismic Design of Irregular Buildings," Co-supervisor: Prof. Humberto Varum, University of Porto, Portugal.
16. Naveen Kumar Kedia, (2022) "Modelling and Analysis of Train-Induced vibrations for Surface, Elevated and Underground Trains," Co-supervisor: Prof. Anil Kumar, MIED, IIT Roorkee.
15. Adil Ahmad (2022), "Seismic Safety of EPS Core Reinforced Concrete Sandwich Panel Buildings," (Solo Supervision)
14. P. Pravin Kumar Venkat Rao (2019), "Out-of-Plane Seismic Behaviour and Strengthening of Unreinforced Masonry Walls," Co-supervisor: Prof. Sreekanta Das, University of Windsor, Canada.

13. Dhiraj Raj (2019), "Seismic Behaviour of Buildings on Hill Slopes," (Solo Supervision)
12. Mitesh Surana (2018), "Seismic Vulnerability of Hill Buildings," Co-supervisor: Dr. Dr. Dominik Lang, NOR SAR, Norway.
11. Narsimha D. S. (2016), "Topographic Amplification and Seismic Risk Assessment in Hills," Co-supervisor: Prof. M.L. Sharma.
10. Kadam Sachin Balasaheb (2015), "Performance Based Seismic Design of Masonry Structures." (Solo Supervision).
9. Shrabony Adhikari (2015), "Effect of Soil on Seismic Performance of Structures." Co-supervisor: Prof. D.K. Paul.
8. Govardhan, (2014) "Direct Displacement Based Design of Base-Isolated RC Frame Buildings." Co-supervisor: Prof. D.K. Paul.
7. Putul Haldar, (2013) "Seismic Behavior and Vulnerability of Indian RC Buildings with URM Infills." Co-supervisor: Prof. D.K. Paul.
6. Vijay N. Khose, (2012) "A Comprehensive Performance-Based Seismic Design Approach for RC Frame Buildings." (Solo Supervision)
5. Ratnesh Kumar, (2010) "Modelling and Seismic Performance Evaluation of Indian RC Frame Buildings." Co-supervisor: Dr. Rajesh Deoliya.
4. J.S.R. Prasad, (2009) "Seismic Vulnerability and Risk Assessment of Indian Urban Housing" Co-supervisor: Dr. Rajesh Deoliya.
3. S. Choudhury, (2007) "Performance Based Seismic Design of Hospitals." Co-supervisor: Prof. D.K. Paul.
2. Goutam Ghosh, (2007) "Seismic Performance of a Continuous Bridge: Role of Bearings and Substructure." Co-supervisor: Prof. S.K. Thakkar.
1. Amjad Masood, (2006) "Out-of-Plane Behaviour of Unreinforced Masonry Infill Panels." (Solo supervision).

Ph.D. Theses (In progress)

18. Ravi Kiran Nandyala, (CoE-DMM) "Seismic Fragility Analysis of Building Foundations," Co-supervisor: Prof. Ravi S. Jakka, EQD, IIT Roorkee.
19. Mayank Sharma, "Seismic Fragility of Tall Buildings in India", Co-supervisor: Prof. Henry Burton, University of California, Los Angeles, USA.
20. Zeeshan Manzoor Bhatt, "Seismic Performance of RC Frames with Different Types of Infills", Co-supervisor: Prof. Pankaj Agarwal, EQD, IIT Roorkee.
21. Chalavadi. Sai Srujan Kumar, (CED) "Seismic Behaviour of Structures on Rock Slopes," Co-supervisor: Prof. Mahendra Singh, CED, IIT Roorkee.
22. Kavan Modha, "Site Effects in Seismic Risk Analysis" Co-supervisor: Dr. Dr. Dominik Lang, NGI, Norway.
23. Shikhar Prakash, "Seismic Risk Analysis in Hilly Regions" Dr. Rajinder K. Bhasin, NGI, Norway.

24. Aman Srivastava, "Seismic Vulnerability of Bridges with Deep Foundations on Hill Slopes" (Solo Supervision).
25. Tajul Islam, "Risk-Targeted Seismic Design of RC Frame Buildings" (Solo Supervision).

M.Tech. Dissertations (Completed)

- 85 Prathamesh Prakash Vane (Structural Dynamics) "Seismic Analysis of Long Bridges Considering Spatial Variation of Ground Motion," 2023.
- 84 Mohit Khajuria (Structural Dynamics) "Retrofitting of Existing Railway Bridges for Increasing Speed of Trains." 2023.
- 83 Akshay Sudhakar Marathe (Structural Dynamics) "Seismic Performance of Hospital Buildings Designed for IS 1893 Codes and NDMA Guidelines," 2023.
- 82 Yogendra Singh Chauhan (Structural Dynamics) "Fragility Analysis of Bridges of A Rail Network," 2022.
- 81 Rayees Kausar (Structural Dynamics) "Evaluation of Existing Railway Bridges for Increasing Speed of Trains," 2022.
- 80 Ravi Shastri (Structural Dynamics) "Risk-Targeted Seismic Hazard Assessment in Indian Himalayas," 2022.
- 79 Tajul Islam (Structural Dynamics) "Risk Targeted Seismic Design of RC Buildings," 2021.
- 78 Sagar Gohil (Structural Dynamics) "Rail-Bridge Interaction," 2021.
- 77 Surla Mahesh (Structural Dynamics) "Capacity Envelopes for Design of Square Foundations," 2021.
- 76 Able Kuriakose (Structural Dynamics) "Construction Stage and Seismic Analyses of Cable-stayed Bridges," 2021.
75. Anju Abraham (Structural Dynamics) "Seismic Fragility Analysis of Aged Bridges with RC Piers," 2021.
74. Nawaz Kalal Siddiqui (Soil Dynamics) "Seismic Vulnerability of Bridges on Hill Slopes," 2020.
73. Mihir Jain (Structural Dynamics) "Risk Targeted Seismic Design of RC Frame Building," 2020.
72. Kamal Kumar Sharma (Structural Dynamics) "Seismic Fragility Analysis of Aged Bridges with RC Piers," 2020.
71. Dherya Saraswat (Structural Dynamics) "Effect of Predominant Period of Ground Motion on Estimated Collapse Capacity of Buildings," 2020.
70. Aman Srivastava (Structural Dynamics) "Seismic Fragility Analysis of Bridge Abutments," 2019.
69. Avanish, V (Structural Dynamics) "Seismic Performance of Framed Tube Structures," 2019.

68. Shikhar Prakash (Seismic Vulnerability and Risk Assessment) "Seismic Behaviour of Foundations on Rock Slopes," 2019.
67. Apratim Alias Akshay Ajinkya Patil (Structural Dynamics) "Comparative Seismic Risk Analysis of RC Bridges Designed for Different Codes," 2018.
66. Devayan Bhattacharjee (Structural Dynamics) "Multiscale Modelling of Masonry Structures," 2018.
65. Shivam Huriya (Structural Dynamics) "Model Seismic Design Guidelines for Thermal Power Plant Steel Buildings," 2018. Co-supervisor: Dr. Praveen Khandelwal, NTPC.
64. Modha Kavan Girishchandra (Soil Dynamics) "Spectral Amplification of Ground-Motion due to Triangular Hill Features," 2018.
63. Kusum Saini (Structural Dynamics) "Seismic Fragility of RC Frame Buildings Designed for IS 1893:2016," 2018. Co-supervisor: Dr. Dr. Dominik Lang, NORSAR, Norway.
62. Bhaskar Kumar (Disaster Management) "Retrofitting of Unreinforced Masonry Buildings," 2017.
61. Nischal Dhingra (Structural Dynamics) "Risk Targeted Seismic Design of RC Frame Buildings," 2017. Co-supervisor: Dr. Dr. Dominik Lang, NORSAR, Norway.
60. Shabin Chand K. (Structural Dynamics) "Seismic Behaviour of Thermal Power Plant Buildings," 2017. Co-supervisor: Dr. Praveen Khandelwal, NTPC.
59. Mayur Pisode (Structural Dynamics) "Seismic Behaviour of URM Infilled RC Frame Buildings," 2017. Co-supervisor: Dr. Putul Halder, IIT Ropar.
58. Shubham (Structural Dynamics) "Multi-Scale Modelling of RC Structures," 2017. Co-supervisor: Prof. Pradeep Bhargava.
57. Shadab Ahmad (Structural Dynamics) "Numerical Simulation of Topographic Amplification," 2017.
56. Praveen Kishor (Disaster Management), "Seismic Retrofitting of Unreinforced (URM) Buildings", 2016.
55. Khatri Aakash Hirenkumar (Structural Dynamics) "Risk Targeted Seismic Hazard Assessment," 2016. Co-supervisor: Dr. Dr. Dominik Lang, NORSAR, Norway.
54. Nartu Manoj Kumar (Structural Dynamics) "Seismic Performance of Coupled Shear Wall Buildings with Replaceable Energy Dissipation Devised," 2016. (Solo Supervision).
53. Avirup Sarkar (Structural Dynamics) "Seismic Design of Expanded Polystyrene Core Panel Buildings," 2016. Co-supervisor: Dr. Shailesh Agrawal, BMTPC.
52. Yogesh Bhattarai (Structural Dynamics) "Seismic Response of Equipment and Services in Industrial Buildings," 2016. Co-supervisor: Dr. Praveen Khandelwal, NTPC.
51. Amey P. Naringrekar (Structural Dynamics) "Effect of Soil Conditions on Seismic Response of Bridge," 2015.

50. B.J.N. Satish (Structural Dynamics) "Effect of Substructure Configuration on Seismic Performance of a Bridge," 2015.
49. Ashish Vishnoi (Structural Dynamics) "Seismic Performance of Rocking Spine Buildings," 2015.
48. Nabeel Amhad Khan, (Structural Dynamics) "Seismic Performance of Steel EBF Buildings Designed for Indian Codes," 2015. (Solo Supervision)
47. Manish Pathak, (Structural Engineering) "Seismic Strengthening of Unreinforced Masonry (URM) Buildings," 2014. Co-supervisor: Dr. Umesh Kumar Sharma.
46. Subhajit Sen (Structural Dynamics) "Seismic Design of Flat Slab-Shear Wall Buildings," 2014.
45. Triveni Mudaliar (Structural Dynamics) "Out-of-Plane Behaviour of Unreinforced Masonry Infills in RC Frames," 2014.
44. Abhishek Singhal (Structural Dynamics) "Development of Model Design Guidelines for Eccentrically Braced Frames," 2014.
43. Rakhi Kulkarni (Structural Dynamics) "Seismic Behaviour and Design of Bridges with Tall Piers," 2014.
42. Mitesh Surana (Structural Dynamics) "Seismic Performance of Frame-Shear Wall Buildings," 2013.
41. Bhemeneni Mounika (Structural Dynamics) "Performance Based Seismic Evaluation of Eccentrically Braced Frames Designed using Different Codes," 2013.
40. Veereswara Rao Yeluguri (Structural Dynamics) "Seismic Vulnerability of Buildings Located on Hill Slopes," 2013.
39. Deepshika Chaudhary (Structural Dynamics) "Performance of Frame Buildings with Passive Energy Dissipation Devices," 2012.
38. Gade Phani Kumar (Structural Dynamics) "Seismic Behaviour of Buildings on Hill Slopes," 2012.
37. Sitara Sarada (Structural Dynamics) "Performance Based Design of Steel Frames," 2012.
36. Mohammad Azam, (Structural Dynamics) "Seismic Retrofitting of Unreinforced Masonry Buildings," 2011.
35. Lt. Col. Pulkit Chauhan, (Structural Engineering) "Effect of Staircase on Seismic Behaviour of Multistorey Buildings," 2011. Co-supervisor: Dr. Anupam Chakrabarti.
34. Mahesh Babu Addala, (Structural Dynamics) "Performance Based Design of RC Frame Buildings with Supplemental Damping," 2011.
33. Birajdar Amarjeet Bhimrao, (Structural Dynamics) "Attenuation Relationship for Spectral Displacement for Himalayan Region," 2011. Co-supervisor: Prof. M.L. Sharma.
32. N. Sweta (Geotechnical Engineering), "Seismic Performance of Slopes Subjected to Foundation Loads," 2011. Co-supervisor: Prof. N.K. Samadhiya.

31. Shaik Mohammed Rizwan, (Structural Dynamics), "Seismic Behaviour of Buildings with Stiffness and Strength Eccentricities," 2011.
30. Agrawal Nikhilkumar Kamalkisore, (Structural Engineering), "Seismic Evaluation of Flat Slab Building with Shear-Wall Core," 2010. Co-supervisor: Prof. N.M. Bhandari.
29. Panchal Amratbhai Popatbhai (Structural Dynamics), "Determination of Design Ground Motion Parameters for Displacement-Based Design," 2010. Co-supervisor: Prof. M.L. Sharma.
28. Shrabony Adhikari (Soil Dynamics), "Effect of Soil on seismic Performance of RC Buildings," 2010. (Solo Supervision)
27. Ashish Kumar (Structural Dynamics), "Effects of Torsion in Seismic Response of Buildings," 2010.
26. Chandra Shekhar Garg, (Structural Engineering), "Performance Based Design of Flat Slab-Shear Wall System," 2009. Co-supervisor: Prof. N.M. Bhandari.
25. Ramesh Kumar A. (Structural Dynamics), "Seismic Evaluation and Retrofit of IITR Main Building," 2009.
24. Raja A.M. (Structural Dynamics), "Structural Design of Pseudo-dynamic Testing Facility Proposed at IIT Roorkee," 2009.
23. Patil Pankaj Sharad (Structural Dynamics), "Seismic Performance Evaluation of URM Buildings," 2009.
22. Gaurav Maroo, (Structural Engineering), "Performance of Flat Slab Column Buildings during Earthquake," 2008. Co-supervisors: Prof. N.M. Bhandari, Dr. Umesh Kumar Sharma.
21. Toshniwal Pramod Bansilalji, (Structural Engineering), "Seismic Performance of Fire Affected Buildings," 2008. Co-supervisors: Prof. Narendra Puri, Prof. Pradeep Bhargava.
20. Mallika Menon.P, (Structural Dynamics), "Performance Based Design of Base Isolated Hospital Buildings," 2008.
19. Putul Haldar, (Structural Dynamics), "Seismic Performance and Vulnerability of IS Code Designed RC Frame Buildings," 2008.
18. Neha Goyal, (Building Science and Technology), "Seismic Safety of Nonstructural Components in buildings," 2008. Co-supervisor: Prof. V.K. Gupta.
17. Tibebu Hunegn Birhane, (Structural Dynamics), "Seismic Behaviour of Skewed and Curved Bridges," 2008.
16. Piyal Mandal, (Structural Dynamics), "Seismic Vulnerability Reduction through Codal Design of URM Infilled RC Buildings," 2007.
15. Nikam Amol Panditrao, (Structural Dynamics), "Retrofitting of A RC Building Using FRP Wrapping," 2007.
14. Samik Chakraborty, (Structural Dynamics), "Base Isolation of URM Infilled RC Frame Buildings," 2007.

13. Dipankar Das, (Structural Dynamics), "Effect of URM Infills on Seismic Performance of RC Frame Buildings," 2006.
12. Anirban Chatterjee, (Structural Dynamics), "Performance Based Design of Frame-Shear Wall Buildings," 2006.
11. Solomon Adugna, (Structural Dynamics), "Effect of Building Stiffness and Strength on the Seismic safety of Non-structural Building Components," 2006.
10. Gopalakrishnan, C., (Structural Dynamics), "Directional Effects in Seismic Response of Buildings," 2005.
9. Sudhanshu Tripathi, (Structural Dynamics), "Seismic Safety of Hospital Equipment and Services," 2005.
8. Vivek Tripathi, (Water Resources Development), "Three Dimensional Analysis of Surface Power Station by Finite Element Method," 2005. Co-supervisors: Prof. Gopal Chauhan, and Prof. B.N. Asthana.
7. Ratnesh Kumar, (Structural Dynamics), "Strength and Ductility of Jacketed R.C. Members," 2004. Co-supervisor: Prof. D.K. Paul.
6. Sivaraju Muralidhar, (Structural Dynamics), "Comparative Study of Force Based and Displacement Based Design of Buildings," 2004. Co-supervisor: Prof. D.K. Paul.
5. Kapil Jain, (Structural Dynamics), "Seismic Behaviour of Frame-Shear Wall Buildings," 2004.
4. Prasad S.R. Jallipalli, (Soil Dynamics), "Analysis of Antenna Supporting Structures," 2003. Co-supervisor: Prof. D.K. Paul.
3. Gurukripal Singh, (Building Science and Technology), "Analytical Modelling of Corrosion Damage to R.C. Structures," 2002. Co supervisor: Prof. V.K. Gupta.
2. S. Jafar Mehdi, (Structural Dynamics), "Seismic Retrofitting of Stilt R.C. Buildings," 2002. Co-supervisor: Prof. D.K. Paul.
1. Shahid Manzoor, (Structural Dynamics), "Retrofitting of the Main Building of IIT Roorkee," 2002. Co-supervisor: Prof. D.K. Paul.

SPONSORED RESEARCH PROJECTS

Sl. No.	<i>Title of the Project</i>	<i>Funding Agency</i>	Duration	Amount Rs. (in Lakhs)
20.	Indo-Portugal Project: Evaluation and Retrofitting of Existing Buildings for Safe and Sustainable Built Environment	DST-SERB	2023-26	38.52
19.	NATRISK - Enhancing risk management & resilience to natural hazards in India, Brazil, & Norway through collaboration in education, research, & innovation	Research Council of Norway	2023-2028	840.00
18.	Incubation support to Potential Future Technologies - Precast panels	MoHUA	2022-25	592.80
17.	Incubation support to Potential Future Technologies - Prefabricated prefinished	MoHUA	2022-25	583.63

	volumetric construction using recycled plastic			
16.	Seismic Characterization and Vulnerability of Vernacular and Contemporary Buildings in the Indian Himalayas	NDMA	2020-23	24.98
15.	R&D on Performance-Based Seismic Design of Buildings - Draft IS Code on PBSD of Buildings	NDMA and BIS	2020-23	5.88
14.	Next Generation Tool for Seismic Risk Assessment in Hilly Regions	IMPRINT-II	2019-2023	68.12
13.	Seismic Safety Measures for RC Frame Buildings with Different Types of Infill Panels	NBCC	2018-23	38.16
12.	Structural Stability Assessment and Development of Design Guidelines for Expanded Polystyrene Core Panel System towards Safe and Affordable Housing	BMTPC	2015-16	10.00
11.	Durability Assessment and Enhancement of Service Life of Expanded Polystyrene Core Panel System	BMTPC	2015-16	10.00
10.	Earthquake Hazard and Risk Reduction on the Indian Subcontinent	NORSAR Norway	2012-2015	113.00
9.	Study on Seismic Strengthening Technologies and Comparative Assessment of Various Retrofit Techniques for Unreinforced Masonry (URM) School Buildings in India	NTU, Singapore	2011-16	39.10
8.	Seismic Vulnerability Assessment of Building Types in India	NDMA	2011-2012	25.20
7.	Fire Resistance and Repair of Earthquake Damaged Structures	UKIERI Research Award	2008-2011	120.00
6.	Performance Based Design and Retrofitting of Masonry Buildings	MoES	2007-2011	25.00
5.	Study of Seismic Base Isolation Techniques for Buildings and Development of Appropriate Seismic Base Isolators	MoES	2007-11	23.11
4.	Earthquake Vulnerability and Loss Appraisal for Non-Structural Elements in the Campus Buildings: A Roadmap	MoES	2006-2010	7.07
3.	Earthquake Risk Reduction in Himalaya with Institutional Cooperation between India and Norway.	NORSAR, Norway	2006-2010	43.80
2.	Seismic Safety of Masonry Infilled RC Frames	MHRD	2003-2006	13.00
1.	Indo-Norwegian Institutional Collaboration on <i>Earthquake Engg.</i> between NORSAR & NGI, Norway and IIT Roorkee, India	INPIC	2002-2006	65.00

CONSULTANCY PROJECTS

Sl. No.	Title of the Project	Funding Agency	Year	Amount Rs. (in Lakhs)
47.	Proof Checking of Structural Design of DLF Buildings	DLF	2023-24	78.38
46.	Proof Checking of Dynamic Analysis of Luhri Stage-2 Gravity Dam	DLF	2022-23	40.00
45.	Proof Checking of Structural Design of Unitech Buildings	UNITECH	2022-23	78.38
44.	Proof Structural Design of Culverts/ Subways, Structure of Station Buildings on Rishikesh-Karanprayag New BG Rail Line.	RVNL	2019-23	92.00
43.	Proof Checking of Structural Modelling, Analysis and Design of MGF Center, Sector 61, Gurugram	MGF Dev. Limited	2019-20	18.00
42.	Proof Checking of the Final Location Survey of 153 kms long Single BG Line Rail Connectivity to Chardham and Chardham Yatra	RVNL	2019-22	
41.	Proof Checking of Design and drawing of Sub-Structure+ Foundation of Br. No. 60 on Jammu-Srinagar Rail Line Project	Konkan Railway	2020-23	11.90
40.	Proof design of 13 railway bridges on 'Rishikesh-Karnprayag New BG Railway Line'	RVNL	2019-23	125.00
39.	Nonlinear Dynamic Analysis of a TG Foundation	NTPC	2019	15.00
38.	Proof design of three railway bridges on 'Rishikesh-Karnprayag New BG Railway Line'	RVNL	2018-19	45.00
37.	Site-specific design earthquake parameters for Shimla by-pass road bridge project sites, Himachal Pradesh	CEL, Shimla	2018-19	54.00
36.	Vetting of structural design of elevated Jammu-Akhnoor road section of NH-144A	SP Singla	2018-22	35.00
35.	Dynamic Analysis Studies for Concrete Gravity Dam of Luhri HEP Stage-I, Himachal Pradesh	SJVNL	2018-19	25.00
34.	Site Specific Design Parameters for 23 Bridges on Bhanupali-Bilaspur-Beri New Railway Line	RVNL	2018-19	182.00
33.	Site Specific Design Parameters for 16 Bridges on Rishikesh-Karnaprayag Railway Line	RVNL	2017-18	120.00
32.	Development of Online courses on Emerging Building Construction Technologies	BMTPC	2017-18	9.97
31.	Vetting of the structural design of the high level bridge over River Teesta , connecting Mekhliganj with Par-Mekhliganj/Haldibari, distt. Coochbehar, West Bengal.	SP Singla Constructions Pvt. Ltd.	2017-18	25.00
30.	Measurement of Vibrations Induced by Delhi Metro Rail Lines	DMRC	2016-17	25.00
29.	Condition Assessment and Retrofit Design of Kolkata Town Hall Building	WB PWD	2016-17	40.07
28.	Proof Checking of the Structural design and Drawing of the Extension of Rajiv Gandhi cancer Hospital	RGCH	2016-17	10.00
27.	Proof Checking of the Design and Drawings of the Substructure of Bridges No. 85 and 87,	RITES	2016-17	12.00

	Udhampur-Srinagar_Baramulla Rail Link Project			
26.	Dynamic Analysis of Spillway of Polavaram Dam	AP Irrigation	2016-17	23.00
25.	Condition Assessment of Various Structures of RBIPMT Hospital, Delhi	North Delhi Municipal Corp.	2012-14	24.16
24.	Proof Checking of Structural Design of 4-lane cable stayed road over bridge (ROB) at Bardhaman Railway Station	Rail Vikas Nigam Ltd.	2011-13	38.60
23.	Vetting of Structural Design of proposed Railway Bridge Over River Hooghly , between Nabadweep Dham and Nabadweep Ghat	Rail Vikas Nigam Ltd.	2012-13	28.09
22.	Retrofit Design of Ward Block and Seismic Evaluation and Retrofit Design of Corridor Block of GTB Hospital, Delhi	Delhi PWD	2012-13	3.30
21.	Proof Checking of Structural Design of Hangers at LGBI Airport Guwahati, Assam	Cadmetric Consulting	2012-13	6.18
20.	Preparation of Lecture Notes for ToT in Bihar	BMTPC	2012-13	2.81
19.	Vetting of Structural Design of Hospital Buildings	PGMI Rohtak	2012-13	11.03
18.	Vetting of Structural Design of Proposed Office Building for Sikkim Forest Department	Sikkim Forest	2011-12	6.62
17.	Vetting of Structural Design of Proposed ATC Tower at New Delhi	Delhi Int. Airport Ltd.	2011-12	16.54
16.	Seismic Hazard Assessment for an Upcoming ATC Tower at New Delhi	Delhi Int. Airport Ltd.	2011-13	8.82
15.	Proof Checking and Vetting of Structural Design and Drawings of Air Force Hangers	CADMETRIC Consulting Guwahati	2011	6.61
14.	Seismic Evaluation and Retrofit Design of 250 bed Ward Block of Hindu Rao Hospital	BMTPC	2010-2011	11.03
13.	Training and Capacity-Building Programme on Seismic Strengthening for Master and Local Builders in India	NTU Singapore	2010-2011	42.99
12.	Vetting of structural design of Professors' Apartments, IIT Delhi	Privitech Consult.	2009-2010	1.5
11.	Development of Course Content for National Earthquake Risk Mitigation Project (NERMP)	NDMA	2008-09	5.00
10.	Seismic Vulnerability of Multistorey Buildings in NOIDA Region	NIDM	2007-09	5.00
9.	Investigation of Distress and Retrofitting of Wild Life Institute Buildings	Wild Life Institute of India	2007-08	5.62
8.	Evaluation & Retrofit Analysis of Life Line Buildings - Pushover Analysis of Ward Block of GTB Hospital, Shahadara, Delhi	PWD, Delhi	2005-06	4.95
7.	Seismic Safety and Retrofitting of TRANSCO Buildings against Earthquake Forces	Delhi TRANSCO Ltd.	2004-05	1.80
6.	Safety of All India Institute of Medical Sciences (AIIMS) Buildings against Earthquake Forces	AIIMS, New Delhi	2002-06	7.5

5.	Technologies for Retrofitting of Existing Structures and Buildings to make them Earthquake Resistant	TIFAC, DST	2002-05	1.47
4.	Seismic Evaluation of Jamia School Building, New Delhi	JMI, New Delhi	2002	0.8
3.	Evaluation of Existing Utility Buildings of Delhi Vidyut Board	DVB, Delhi	2002	0.17
2.	Preparation of Guidelines for Earthquake Resistant Building Construction	TISCO	2001-02	4.0
1.	Retrofitting of AIR Buildings at Bhuj	AIR	2001	0.35

SHORT-TERM TRAINING PROGRAMMES ORGANISED

60. IITR-RDSO Short-Term Training programme on Dynamic Analysis of Bridges for Earthquake and Moving Loads, Online Course, October 16-17, 2023.
59. IITR-EPICONS Friends of Concrete Webinar on Seismic Analysis of Tall Buildings using Response Spectrum and Time History Methods, 29th April, 2023.
58. Short-Term Training programme on Earthquake Time-History Analysis of Bridges, IIT Roorkee, March 23-24, 2023.
58. IITR-EPICONS Friends of Concrete Webinar on Design of Tall Buildings with Podium & Basement (with reference to IS 16700), 19th November, 2022.
57. IITR-RDSO Specialized Training Programme on Bridge Dynamics, IIT Roorkee, July 21-24, 2022.
56. IITR-EPICONS Friends of Concrete Webinar on Modelling, Analysis, Design and Detailing of Shear Walls, May 21, 2022.
55. IITR-EPICONS Friends of Concrete Webinar on Ductile Detailing of Tall RC Buildings, March 19, 2022.
54. IITR-EPICONS Friends of Concrete Webinar on Performance-Based Seismic Design and Nonlinear Analysis of Tall Buildings, July 24, 2021.
53. RDSO-IITR Webinar on Earthquake Resistant Design of Bridges: Recent Developments in the Design Codes, June 18-19, 2021.
52. IITR-EPICONS Friends of Concrete Webinar on Analysis, Design & Detailing of Shear Walls, January 30, 2021.
51. IITR-EPICONS Friends of Concrete Webinar on Seismic Design of Code Exceeding Buildings, May 30, 2020.
50. ISET Webinar on Performance-Based Design of Structures, May 16, 2020.
49. IITR-RDSO 3-day International Course on Recent Advances in Bridge Design and Construction, IIT Roorkee, August 7-9, 2019.
48. QIP Course: Vibration Mitigation Systems – Analysis and Design, IIT Roorkee May 27-31, 2019.
47. GIAN Course: Probabilistic Analysis of Power Plants and Design of Metamaterial-based Shields for Enhanced Performance, IIT Roorkee, April 22-26, 2019.
46. IITR-EPICONS Friends of Concrete WORKSHOP 77: High-End Design of Tall Buildings, Mumbai, March 29-30, 2019.
45. IITR-EPICONS Friends of Concrete WORKSHOP 74: Performance Based Design of Multistorey RC Buildings, Mumbai, May 25-26, 2018.
44. IITR-EPICONS Friends of Concrete WORKSHOP 73: Performance Based Design & Provisions of Tall Building Code IS 16700:2017, Mumbai, March 23-30, 2018.
43. IITR-EPICONS Friends of Concrete WORKSHOP 72: Deliberations post revisions in code – 1893: 2017 & 13920:2016, Mumbai, November 24-25, 2017.

42. IASE Refresher Course on Earthquake Resistant Design of Buildings: Nonlinear Modelling and Performance Based Seismic Design of Multi-storey Buildings, New Delhi, October 14, 2017.
41. Advance Design Course on Seismic Safety of Buildings, Kathmandu, Nepal, October 9-11, 2017.
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38. Indo-Norwegian Training Programme on Seismic Design of Multistorey Buildings: IS 1893 vs Eurocode 8, December 8-10, 2016, India Habitat Centre, New Delhi.
37. AICTE QIP Short-term Course on Vibration Mitigation Techniques: Theory and Application, Continuing Education Center, IIT Roorkee, June 27-July 01, 2016.
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33. Indo-Norwegian Training Programme on Seismic Design of Multi-storey Buildings: IS 1893 vs. Eurocode 8, May 27-29, 2015, India Habitat Centre, New Delhi.
32. Indo-Norwegian Training Programme on Nonlinear Modelling and Seismic Response Evaluation of Structures, December 14-16, 2014, Indian Institute of Technology Roorkee.
31. Indo-Norwegian Training Programme on Seismic Design of Multi-storey Buildings: IS 1893 vs. Eurocode 8, October 13-15, 2014, India Habitat Centre, New Delhi.
30. Indo-Norwegian Training Programme on Seismic Design of Multi-storey Buildings: IS 1893 vs. Eurocode 8, May 26 - 28, 2014, India Habitat Centre, New Delhi.
29. International Course on Techniques for Earthquake Resistant Design & Retrofitting in South Asia, for Participants from SAARC countries, March 19-30, 2014.
28. IITR-BMTPC Training Programme on Construction of Buildings in Hill Areas of Uttarakhand for Rural Engineering Service Department, Dehradun, March 01, 2014.
27. IITR-BMTPC course on Codal Practices on Earthquake Resistant Design and Construction, India Habitat Center, December 27-29, 2012.
26. SAARC Training Programme on Techniques for Earthquake Resistant Structures for Engineers and Architects, IIT Roorkee, June 18-29, 2012.
25. IITR-BMTPC course on Codal Practices on Earthquake Resistant Design and Construction, India Habitat Center, December 28-30, 2011.

24. IITR-BMTPC course on Codal Practices on Earthquake Resistant Design and Construction, India Habitat Center, September 1-3, 2011.
23. SAARC Training Programme on Earthquake Risk Mitigation, Greater Noida Extension Center, IIT Roorkee, June 06-17, 2011.
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20. IITR-NTU Training Programme on Seismic Strengthening, IIT Roorkee, May 17-21, 2010.
19. IITR-BMTPC course on Codal Practices on Earthquake Resistant Design and Construction, India Habitat Center, January 28-30, 2010.
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17. Design of Multi-storey Buildings for Earthquake and Wind Loading, Institution of Engineers (India), Roorkee Chapter, December 8-12, 2008.
16. NPCBEERM Course on Earthquake Risk Management, IIT Roorkee, November 3-29, 2008.
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13. IITR-BMTPC Course on Codal Practices on Earthquake Resistant Design and Construction, BIS Training Institute, Sector 62, NOIDA, December 06-08, 2007.
12. Retrofit Clinic Training Programme on Vulnerability Assessment and Retrofitting, IIT Roorkee, July 31-August 05, 2007.
11. NPCBEERM Short-Term course on Earthquake Risk Management, IIT Roorkee, May 7-19, 2007.
10. IITR-BMTPC Course on Performance Based Design and Retrofitting of Buildings Against Earthquake, NOIDA, January 08-12, 2007.
9. IITR-BMTPC Course on Earthquake Resistant Design and Construction of Buildings, September 18-22, 2006.
8. NPTEE Short-Term course on Earthquake Resistant Design of RC Buildings, IIT Roorkee, July 24-29, 2006.
7. NPTEE Short-Term Course on Earthquake Engineering for Polytechnic Teachers, IIT Roorkee, May 22-27, 2006.
6. NPTEE Short-Term course on Seismic Evaluation and Retrofit, IIT Roorkee, December 19-24, 2005.
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