

Resume



Name: **Dr. Pabitra Ranjan Maiti**

Designation: Associate Professor

Join in the Institute: June 2004

Date of Birth: 24/10/1976

Address : Department of Civil Engineering, IIT (BHU) Varanasi, Uttar Pradesh, India

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Phone Number: 0542-6701531 (O) ; Mob- 9956949290

Educational Qualification: Ph. D. (IIT Kharagpur), M. E. (Structural Engineering), B. E. (Civil Engineering) Indian Institute of Engineering Science and Technology, Shibpur

Area of Research Interest: Steel Structure & Bridges, Moving Load, Fluid-Structure Interaction, Sloshing in liquid filled container, Fluid Flow around Structure, Computational Dynamics, FEM & BEM

Total Number of Research Paper Published- 52

Research Project: 2

1. Earthquake Resistant 4-Storey Confined Brick Masonry Apartment Type Building Design and Construction, (Deputy Coordinator, 2009-2014, 5 years, SAP-DRS-II, 35 lacs. UGC grant Completed)
2. Study of Surface water and ground water interaction along the bank of River Ganga at Varanasi, Uttar Pradesh India (Institute Sprouting Grant, 11.25 lac, Co-Pi, ongoing)

Course Taught

Under Graduate Level: Mechanics of Solids, Design of Steel Structure, Computer Application in Civil Engineering, Design of Pre-stressed Concrete

Post Graduate Level: Structural Dynamics, Theory of Plates, Aseismic Design of Structure

Date: 15 November, 2015

Research guidance

i) **Ph.D. Supervision : 3**

1. Birajdar Harshad Subashrao “Composite Steel Truss Bridges” ongoing
2. **Sabita Madhvi Singh (2014)** “Flow Characteristics around Slender Structure and its Influence on Channel Morphology”
3. **Vikash Khatri (2013)** “Prestressed Steel Concrete Composite Bridge”

ii) **Number of M. Tech. and IDD students guided: 39**

1. Rahul Kumar (2015) Experimental Study of Confined Brick Masonry Building, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
2. Nagendra Dhooper (2015) Study on Retrofitting of Concrete Beam-Column Structures using Carbon Fiber Reinforced Polymer (CFRP), Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
3. Rohit Kumar Mittal (2015) Dynamic Analysis of a Simply Supported Bridge subjected to Moving Load, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
4. Kota Sai Venkata Prasanth (2015) Finite Element Analysis of Reinforced Concrete Frame Corners subjected to Opening Moment, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
5. Kushal Gupta (2015) Fatigue Analysis of Steel Beams under Random Vibration, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
6. Bhupendra Singh Rana (2015) Seismic analysis of Steel Braced Frames, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
7. Mridul Ranjan Sahu (2015) Comparative study of buckling strength of corrugated web plate with flat plate girder, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
8. Ankit Verma (2014) Shear buckling behavior of girders with corrugated webs, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
9. Vivek Nandan (2014) Aeroelastic analysis of long span bridge deck using computational method, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.

10. Aisharyya Alok (2014) Dynamic analysis of liquid filled container using codal provisions, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
11. Aditya Mishra (2014) Performance based evaluation of passive base isolation in buildings, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
12. Mayank Charasoniyaya (2014) Seismic performance of multi-storey concentric steel braced frames, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
13. Smita Punjali (2014) Analysis of steel truss bridges under dynamic loading, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
14. Bhawesh Madhukar (2013) Analysis of a Plate Rested on Elastic Foundation under Moving Load, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
15. Akshay Kumar Pandey (2013) A Study of Confinement Index and Ductility Ratio of RCC Columns, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
16. Pawan Kumar Das (2013) Modeling and Analysis of a 4 Storey Confined Brick Masonry Building, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi.
17. Serajuddin Ahmed (2012) Analysis of Steel Lattice Towers, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
18. Saurav (2012) Finite Element Analysis of Confined Brick Masonry, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
19. Birajdar Harshad Subashrao (2012) Finite Element analysis of Box Culverts with and without Haunches, Department of Civil Engineering, Institute of Technology, Banaras Hindu University

20. Ram Ganga Bhagaban (2012) Finite Element analysis of beam and plate under harmonic loading, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
21. Samay Singh (2012) Analysis of RC beam using Glass fibre Polymer Composite (GFRP), Department of Civil Engineering, Institute of Technology, Banaras Hindu University
22. Abhishek Verma (2012) Push over analysis of steel plate shear wall, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
23. Ishan Sharma (2011) Numerical Analysis of Composite Laminates, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
24. Abhinav Srivastava (2011) Study of Sloshing and Hydrodynamic Pressure in Cylindrical Tank, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
25. Parikshit Verma (2011) Analysis of Confined Brick masonry using ANSYS, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
26. Pankaj Kumar (2011) Study of sloshing in rectangular water tank under base excitation, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
27. Ansuman Kar (2011) Analysis of skew bridges using computational methods, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
28. Pankaj Choudhary (2011) Analysis of frame-structure building under blast load, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
29. Vinayak Ashok Desai (2010) Pushover Analysis of RCC Framed Buildings, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
30. Dushyant Pratap (2010) Free Vibration Analysis of Composite Laminate Plate, Department of Civil Engineering, Institute of Technology, Banaras Hindu University

31. Vikash Ranjan (2010) Dynamic Modeling of Runoff Sediment Yield for Kashinagar Watershed, Department of Farm Engineering, Institute of Agricultural Science, Banaras Hindu University
32. Vigya Singh (2010) To study the climatic variability of Varanasi District U. P. India, Department of Farm Engineering, Institute of Agricultural Science, Banaras Hindu University
33. Amit Kumar Pandey (2009) Study on Local Scouring around Cylindrical Pier Department of Civil Engineering, Institute of Technology, Banaras Hindu University
34. Avneesh Singh (2008) Flow around circular and square cylinder and its dynamic response at different Reynolds number, Department of Civil Engineering, Institute of Technology, Banaras Hindu University
35. Rathin Sinha (2008) Integrated crop water management using remote sensing and GIS. Department of Civil Engineering, Institute of Technology, Banaras Hindu University
36. Gaurav Verma (2008) Impact assessment of new bridge on Ramnagar fort and the Ganga in Varanasi. Department of Civil Engineering, Institute of Technology, Banaras Hindu University
37. Akash K. Badal (2007) Study of scouring around a bluff body in a stream flow, Department of Civil Engineering, Institute of Technology, Banaras Hindu University.
38. Sabita Madahav (2007) Statistical analysis of hydrological process in a watershed: A case Study at Mirzapur, Department of Soil, Water, Land Engineering & Management, Allahabad Agricultural Institute, Deemed University, Allahabad-211007, India
39. Mallik Mritunjay R B (2006) Application of remote sensing, GIS and optimization technique in watershed management, Department of Civil Engineering, Institute of Technology, Banaras Hindu University

B. Tech. Project Guided- More than 30

Book edited

- P. K. Singh & **P R Maiti**, Proceedings of the workshop on “Earthquake Resistant Design and Construction of Confined Brick Masonry Buildings” (WERDCCBMB) 13-14 February, 2010
- B. Kumar & **P R Maiti**, E-Proceedings: PRAGATI, Proceedings of All India Biennial Civil Engineering Conference on Advances in Civil Engineering, 1-3 April, 2011
- P. K. Singh & **P R Maiti**, Proceedings of the Workshop on Recent Developments in Design and Construction Techniques of Brick Masonry Buildings, 3-4 March 2012. ISBN: 978-81-921121-1-4

Professional Members

- Life Member - Indian Society for Technical Education (ISTE)
- Life Member - Indian Society of Earthquake Technology (ISET), Roorkee
- Life Member -Indian Society of Theoretical and Applied Mechanics (ISTAM), IIT Kharagpur
- Life Member –Indian Concrete Institute (ICI), India
- Associate Member, Institute of Engineers (India), AMIE
- Life member , INSDAG

Administrative Works

1. Administrative Warden , C. V. Raman Hostel, IIT (BHU)(2013-till date)
2. Administrative Warden , Morvi Hostel, IIT (BHU) (2012-2013)
3. Warden, Morvi Hostel (August 2009-July 2010), IT BHU
4. Warden, Vishveshvaraya Hostel (July 2010 to July 2012), IT-BHU
5. Member, Departmental Research Committee (2011 to 2013)
6. Senate member (2013-14) Hostel Representative
7. Member, Departmental Post Graduate Committee, (2012-2014)
8. Member, Departmental Under Graduate Committee (2014-2015)
9. Professor In-charge , Time Table (2015-16)
10. Member, Attendance Monitoring Committee (2011-2012)
11. Member, Tabulation of result UGD/ PGD (2013-2015)
12. Member, Annual Report committee (2012-15)
13. Deputy Coordinator, (Project) SAP-DRS-Phase-II, Department of Civil Engineering, BHU (2009-2014)
14. Organizing Secretary, Workshop on Recent Developments in Design and Constructions Techniques of Brick Masonry Buildings, 3-4 March 2012, Department of Civil Engineering, IT BHU
15. Co-Convener, NIRMAAN -11, The Biennial Civil Engineering Festival of Civil Engineering Society, Department of Civil Engineering , IT BHU, 2011
16. Co-Convener, Workshop on Earthquake Resistant Design and Construction of Confined Brick Masonry Buildings, 13-14 February, 2010.
17. Secretary General and Treasurer, Civil Engineering Society, Department of Civil Engineering (Session 2009-10 and 2010-2011, 2011-12)
18. Teacher In-charge, Industrial Tour Program (B-Tech and IDD M-Tech, Part-III) (Session 2007-2008 ,2009-2010 and 2010-2011, 2012-13)
19. Technical paper review committee for ERDCRRB-2006, Department of Civil Engineering, IT BHU
20. Teacher In-charge: To facilitate the participation in Spring Festival held at IIT- Kharagpur during 25th -28th January, 2007, accompanying 54 numbers of IT- BHU students “Cultural Wing of IT Gymkhana”

Major Consultancy / Field Project Completed

- Vetting of design and drawings of Provisions of sub way/ RUB by Box Pushing Method in Lieu of L-Xing No between Sikorda Kwari-Hetampur Stations
- Vetting of design and drawings of additional 2-lane ROB -71 at closed L/C 26 B on Sonipat Kharkhoda Road
- Vetting of structural design and drawing of canopy on air side Chennai Airport
- Vetting of design and drawing of 1000 ϕ and 1100 ϕ pipe on Nanagoli-Najafgarh Road falling under Nilothi WWTP area in New Delhi, Delhi Jal Nigam, 2014
- Vetting of design and drawing 835 kL Rectangular Over Head Tank n 20 m Staging, Gautam garden, Varanasi, (2014)
- Inspection report of sustainability of Over Head Tank (Capacity 350 kilo liter) on Pathana Drinking water scheme and Badlapur Drinking water Scheme, Janpur, U.P. Jananigam, 2010
- Process Design & Hydraulic Diagram for 29 MLD Sewage treatments Plant at Salori Nala, Allahabad, Uttar Pradesh, 2007
- Design and Development of detailed Report for Rejuvenation of Lehartara Pond, Varanasi, Uttar Pradesh, Coco Cola India Pvt Ltd , 2007
- Riprap bank protection work in river Ganga at Mirjapur, Irrigation Department, Government of Uttar Pradesh, 2006
- A Report of the Inspection of Partly Constructed Pucca Ghat on the Bank of Ganga River at Ramnagar, Varanasi, India, December 2006