# Curriculum Vitae

## 1. Personal Details

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| **(i)** | Name | **Dr. Rakesh Kumar Khare** |
| **(ii)** | Father's Name | Shri U. S. Khare |
| **(iii)** | Date of Birth | 30-05-1964 |
| **(iv)** | Address for Communication | Professor<br>Deptt. Of Civil Engg. & App. Mech.<br>Shri G.S. Inst. of Tech. & Sc., Indore<br>23, Park Road, Indore - 452 003 (M. P.)<br>Phone – 91-731-2582163(O) |
| **(v)** | Permanent Address | 672, R-Sector, Mahalaxmi Nagar<br>Opp. Bombay Hospital<br>Indore - 452 010 (M. P.)<br>Phone – 91-731-2494743(R) |
| **(vi)** | Contact Details | Mobile- +919425053428<br>E-mail – rakeshkhare@hotmail.com |
| **(viii)** | Nationality/Religion | Indian / Vedik Sanatan (Hindu) |

**Photograph**

## 2. Educational Qualifications

| No. | Degree | Year | University/Institute | Division | Specialization |
|---|---|---|---|---|---|
| 1 | B.E. | 1985 | Bhopal University | I$^{st}$ with (Distinction) | Civil Engineering |
| 2 | M. Tech. | 1987 | Bhopal University | I$^{st}$ with (Distinction) | Structures |
| 3 | Ph.D. | 1996 | DAVV, Indore | - | Civil Engineering |
| 4. | One semester Certificate Course | 2003 | IIT Kanpur | - | Earthquake Resistant Design of Structures |
| 5. | Six months Fellowship | 2005-2006 | University of Canterbury, Christchurch, New Zealand | - | Non-linear seismic analysis |

**M.Tech. Dissertation Title:** Stress Analysis of Gravity Dam Founded on Rock Mass having Horizontal Seam

**PhD Dissertation Title:** Thermal Stresses in Fiber Reinforced Composite Laminated Plates and Shells

## 3. Present Position Held

## 4. Career History and Profile of Work Experience:

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| (a) | Academic / Teaching Experience and subjects taught |
| (i) | Professor, Department of Civil Engineering & Applied Mechanics, SGSITS, Indore, 2005-present |

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| (ii) | Reader, Department of Civil Engineering & Applied Mechanics, SGSITS, Indore, 1999-2005 |
| (iii) | Sr. Lecturer, Department of Civil Engineering & Applied Mechanics, SGSITS, Indore, 1994-1999<br>Lecturer, Department of Civil Engineering & Applied Mechanics, SGSITS, Indore, 1988-1994<br>**Subjects Taught:**<br>**UG**<br>(i) Applied Mechanics<br>(ii) Strength of Material<br>(iii) Structural Mechanics<br>(iv) Structural Analysis (Theory of Structures)<br>(v) Structural Analysis (Indeterminate Structures)<br>(vi) Structural Design<br>(vii) Advanced Structural Design (Building)<br>**PG**<br>(i) Finite Element Method<br>(ii) Earthquake Resistant Design of Structures<br>(iii) Theory of Vibration<br>(iv) Mechanics of Composite Materials<br>(v) Theory of Plates and Shells<br>(vi) Computing Techniques<br>(vii) Design of Tall Structures |
| (b) | **Other Academic Experiences and positions/responsibilities held** |
| (i) | Controller (Exam) 2015-18 |
| (ii) | Coordinator PG Courses 2011-20 |
| (iii) | Professor In charge Result Processing 2009-10 |
| (iv) | Coordinator Exam 2001-08 |
| (v) | Superintendent Exam 2006-12 |
| (vi) | Dean Academics Dec 2020 – present |
| (c) | **Relevant Administrative Experience** |
| (i) | Nodal Officer Academics, TEQIP Phase-II (World Bank Project) 2012-16 |
| (ii) | Design Engineer, SGSITS, Indore |
| (iii) | Member of Various committees of the Department (e.g. Board of Studies, Time Table, Testing/Consultancy Distribution, Accreditation, etc.) |

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| (iv) | Member of Exam Committee of the Institute |
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| **(d)** | **Other Academic cum Administrative Experiences and Positions Held** |
| (i) | Organized and delivered lectures in national seminar and courses in the area of Earthquake Resistant Design, finite element method and computer aided design. Actively participated and delivered lectures in the training programs on Earthquake resistance, preparedness and disaster management for the Engineers, Architects and Students organized by UNDP and District Administration, Indore and Jabalpur. Attended meetings called by District Administration on disaster management. Completed the entrusted administrative activities and responsibilities of the department and the Institute time to time. |
| (ii) | Member, Department Purchase Committee |
| (iii) | Convener, Gold Medal Ceremony |

| **5.** | **Research Experience** |
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| | **Area of Research Interest:**<br>Finite Element Analysis and design of structures<br>Financial Seismic risk analysis of buildings and structures<br>Nonlinear and Incremental dynamic Analysis of structures<br>Seismic Analysis and Design of Precast Concrete Building Structures<br>Computer Aided Analysis and Design of Structures<br>Static and Dynamic Analysis of Fiber Reinforced Composite Laminated Plates and Shells, Developed Higher-Order Facet Shell Element<br>Seismic Evaluation of buildings and structures<br>Seismic Hazard Analysis<br>Blast Resistant Structures<br>Cold Form Steel Structures |

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| **(a)** | **Post Graduates/Ph. D. Scholar Guidance** |
| **(I)** | **Ph.D. Completed and Awarded** |
| (i) | Garg, A. K. (2006) Vibration Analyses of Laminated Composite Plates and Shells using Higher-Order Flat Facet Shell Element. *RGPV, Bhopal.* |
| (ii) | Joshi, R. R. (2010) Analysis of Water Tanks with Rib and Stringer Stiffeners using Stiffened Shell Element. *RGPV, Bhopal* |
| (iii) | Maniyar M. M. (2012). Performance Based Probabilistic Seismic Vulnerability Assessment of Existing RC Buildings. *RGPV, Bhopal.* |
| (iv) | Bidwai, V. K. (2017). Seismic Design Considerations for Precast Concrete Buildings in Indian Perspective. *RGPV, Bhopal.* |
| (v) | Sharma, Amit (2018). Seismic vulnerability of Existing Masonry buildings. *RGPV, Bhopal.* |
| (vi) | Pathak Raana (2019). Seismic vulnerability of concrete shell and folded plate structures. *RGPV, Bhopal.* |

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| (vii) | Patil, D. M. (2020). Evaluation of seismic damage to concrete bridges. *RGPV, Bhopal.* |
| (viii) | Melani, Amit (2020). Earthquake risk analysis of Reinforced concrete frame structures. *RGPV, Bhopal.* |
| **(II)** | **Ph.D. Submitted and Under Evaluation** |
| (i) | |
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| **(III)** | **Ph.D. Under Process** |
| (i) | Baradiya, Vijay Kumar (Joined in 2011). Seismic Mitigation of Structure Wall System. *RGPV, Bhopal.* |
| (ii) | Binnani, Nikunj (Joined in 2018). Seismic Hazard Analysis and Site Response of Nimar & Malwa Region. *RGPV, Bhopal.* |
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| **(b)** | **P.G. Dissertation Guidance** |
| (i) | 1. Baghel, Rajendra Kumar (ongoing). Retrofitting need of existing over-head water tank capacity ranging 100 KL to 300 KL due to revision in Indian standard. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>2. Dwivedi, Shashank (ongoing). Buckling analysis of Cold Form Steel Purlin with and without Anti Sag rod. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>3. Prasad, Kashi (ongoing). Response of Multistorey Buildings Exposed to Explosion. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>4. Shah, Disha (ongoing). Seismic Hazard Analysis. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>5. Kushwaha, Aditya (ongoing). Seismic Evaluation of Response Reduction Factor for IMRF with Shear Wall. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>6. Karore, Chiranjeev (ongoing). Seismic Evaluation of Response Reduction Factor for IMRF of 15-25 storey structure. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>7. Singh, Sobran (ongoing). Site Specific Response Spectra & Seismic Analysis for Long Tunnel Shaped Building at RRCAT Indore. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>8. Kulshreshtha, Ojaswee (ongoing). Geophysical Investigations using MASW for estimating Ground Characteristics. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>9. Mukati, Prakrati (ongoing). Parametric study of Steel Through type Truss bridge. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>10. Vishwakarma, Rohit (ongoing). Structural behavior and design of concrete chimney due to revision of IS875 (Part 3). *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>11. Dixit, Abhishek (submitted in 2020).Seismic Evaluation & Retrofitting of Multi Storey Building In Indore.<br>12. Jain, Mohit (submitted in 2020).Use of Cold Formed Steel: Some Case Studies. |

*Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*

13. Samanta, Nilanjan (2020). Seismic Evaluation of Intermediate Moment Resisting Frame. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*
14. Sharma, Jaya (2019). Effect of Beam Rigidity on behaviour of Slab. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
15. Jain, Akshay (2019). Codal provisions & Current Practices in Design of Pre-Engineered Building Case Studies. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
16. Jatav, Yogesh (2019). Design of a cold storage structure using tubular sections- A parametric study. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
17. Jain, Rajat (2019). Seismic retrofitting of low rise RC buildings designed for gravity loads. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
18. Kalra, Rohit (2019). Seismic hazard analysis and design of Omkareshwar and Maheshwar dam. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
19. Dusane, Aditya (2018). Seismic Response Reduction Factor of Lean Structural Wall Buildings. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
20. Jain, Sujay (2018). Seismic Evaluation of Reinforced Concrete Folded Plate Structures. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
21. Gwal, Sujeeta (2018). Structural Analysis & Design of PRE-ENGINEERED V/S CONVENTIONAL Industrial Steel Buildings Using IS 800: 1984 & IS 800:2007. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
22. Songara, Deepesh (2018). Seismic performance of RC flat slab structures. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
23. Gupta, Tanuja (2018). Feasibility analysis of R.C. lean structural wall buildings subjected to seismic loading. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
24. Mishra, Abhinav (2018). Parametric case study of block shear failure. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
25. Manglani, Vivek (2017). Seismic fragility analysis and loss estimation of multistoried RC Framed buildings with consideration of aftershock hazards. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
26. Pagare, Ajitesh (2017). Seismic vulnerability analysis of confined masonry building. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
27. Patidar, Devendra (2017). Seismic response reduction factor of framed and walled buildings. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
28. Agrawal, Parag (2017). Seismic evaluation of substructure (hollow piers)

irregularity of reinforced concrete girder bridges. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*

29. Parmar, Vanshdeep Singh (2017). Seismic effect of storey isolation in plan irregular framed RC Building. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
30. Pathan, Sarfaraz (2017). Seismic behaviour of low to mid rise soft storey framed buildings. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
31. Binnani, Nikunj (2017). Probabilistic Seismic Hazard Analysis of Punasa Dam. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
32. Bonde, Ankur (2017). Seismic design and analysis of Multistory Cold Formed steel structures and its comparison with conventional hot rolled steel structures. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
33. Yadav, Kishanveer (2016). Seismic Loss Estimation of Multistoried R.C. Frame. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore* Shingane, Sumit (2016). Seismic Evaluation of Substructure (Solid Piers) Irregularity of Reinforced Concrete Girder Bridges. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
34. Chugh, Arun (2015). Seismic behaviour of precast/Prestressed beam column joint. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
35. Bhasin, Jashmin (2015). Seismic Evaluation of concrete bridges by replacing solid pier with hollow pier : A case study. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
36. Ghavri, Gaurav (2015). Seismic Design and Analysis of Low-Rise Confined Masonory Building. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
37. Thakur, Singh, Bhoopendra (2015). Loss Estimation of Multistorey R.C.C. Framed Building. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
38. Neema, Chirag (2015). Seismic Response Reduction Factor for Irregular Buildings With and Without Shear Wall. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
39. Rathore, Ashok (2015). Seismic Evaluation of R.C. Cylindrical Shell Roof Structure by Converting to Equivalent S.D.O.F. System. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
40. Malviya, Sonu (2014). Non-Linear Seismic Analysis of Masonory Buildings. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
41. Gupta, Piyush (2014). Finite Element Modeling of Precast Concrete Beam-Column Connection, *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
42. Sikder, Shiuli (2013). Characteristics of R.C. Elements For Non-linear Analysis. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
43. Khichi, Singh, Jitendra (2013). Seismic Analysis and Design of Precast/Prestressed

Parking Structures. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*

44. Sharma, Punit (2013). Seismic Mitigation of R.C. Framed Structures. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
45. Jain, Utkarsh, (2012). Seismic evaluation of masonry building. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
46. Mishra, Ashish, (2012). Seismic evaluation of prestress concrete girder bridges. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
47. Shukla, Vijay Kumar, (2012). Fragility analysis of reinforced concrete shell structure under seismic loading. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
48. Thakre, Bhumesh Kumar, (2012). Nonlinear seismic analysis of reinforced concrete bridges. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
49. Joshi, Neha, (2012). Seismic analysis and design of precast concrete building frames and connections. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
50. Walia, Rashminder Sing, (2012). Ground motion selection and modification for earthquake risk analysis of RC frame structures. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
51. Sharma, Bhruti, (2012). Seismic analysis and design of precast concrete diaphragms and their connections. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
52. Taluja, Inderdeep Sing, (2012). Finite element modeling of precast concrete diaphragms and their connections. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
53. Arora, Vishal, (2011). Estimation of lateral force on non-structural component. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
54. Jain, Pranee, (2011). Nonlinear seismic analysis of masonry infilled RC framed buildings. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
55. Agarwal, Aditi, (2011). Nonlinear seismic analysis and modeling of concrete bridge piers. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
56. Guha, Swatilekha, (2011). Seismic collapse capacity of folded plate using pushover analysis. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
57. Rai, Shilpa, (2011). Nonlinear seismic behavior of RC shell structures. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
58. Murthy, Yogesh Iyer, (2010). Transient dynamic analysis of laminated fibre reinforced composites using higher order quadrilateral flat facet shell element. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
59. Awasthi, Rachiyata, (2010). Seismic performance of RC Shell and roof structures using nonlinear static pushover analysis. *Department of Civil Engineering &*

*Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*

60. Gaur, Neelesh, (2010). Suitability of foundation system for RC framed buildings situated in different seismic zones. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
61. Chaturvedi, Rajesh, (2010). Seismic behaviour of RCC overhead water tanks as per existing and proposed Codal provisions. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
62. Chapekar, Devendra, (2009). Seismic Microzonation of Indore city. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
63. Barkale, Mitesh, (2009). Seismic performance of Precast concrete diaphragm and their connections. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
64. Danderwal, Deepesh, (2008). Seismic response of buildings for Indian earthquakes. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technolo15-Feb-21Monday, February 15, 2021gy & Science, Indore*
65. Baradiya, Vijay Kumar, (2008). Non-Linear dynamic analysis of RC framed buildings. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
66. Sharma, Amit, (2008). Computer aided earthquake analysis and design of RC frame structures. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
67. Shrishrimal, Monika, (2007). Dynamic Along wind Response of Elongated Tall Rectangular Buildings. A Deeper Insight. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
68. Chakrapani, Thotha, (2007). Seismic vulnerability opf existing non-seismic reinforced concrete framed building. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
69. Multani, Shahbuddin, (2007-Awarded Best M.Tech Thesis – Second Prize by ISTE New Delhi). Seismic analysis & design of precast concrete diaphragms. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
70. Chouhan, Yashpal, (2007). Seismic analysis & design of precast concrete column-beam frame. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
71. Burhanuddin, Bohra, (2006). Seismic Performance of RC Frame Buildings designed as per Indian Standards using Pushover Analysis. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
72. Agrawal, Govind, (2006). Seismic Performance of RC Frame Brick Infill Panel Using Incremental Dynamic Analysis. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
73. Melani, Amit (2005). Cylindrical Shell and Folded Roof Structures under seismic loading. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
74. Sheik, Khalisavalli (2005). Dynamic analysis of laminated plates and shells. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
75. Gupta, Parag (2004). Earthquake Resistant Design and Detailing of Reinforced Concrete Buildings- A Case Study. *Department of Civil Engineering & Applied*

*Mechanics, Shri G. S. Institute of Technology & Science, Indore*

76. John, S. P. (2004). Higher-order Closed-form Solutions for Free vibration of fibre reinforced composite laminated plates and shells using Thick Shell Theory. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
77. Dhantole, Jagdish (2004). Analysis of Water Tanks with Rib and Stringer Stiffeners using Stiffened Shell Element. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
78. Narolia, Neelam (2003). Behaviour of Multistoreyed Buildings with Soft Story under Seismic Forces. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
79. N. Ravindra Kumar (2003). Analysis of Water Tank Walls with Vertical Stiffeners using FEM. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
80. Kasi Vishwanath (2002). Free vibration analysis of fibre reinforced composite laminated plates and shells. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
81. Upadhyay, Arjav (2001). Analysis and design of machine foundation. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
82. Ajmera, Anant (2001). Analysis of stiffened wall subjected to hydrostatic loading. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
83. Chaudhury, Anirban (2000). Analysis of space structures using a combined 3-D frame and flat shell element. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore*
84. Gupta, Pankaj (1999). Object oriented analysis of multistoried frame with a case study of water tower. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*
85. Modi, Sunil (1999). Plane stress 9-noded quadrilateral RCC element using C++. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*
86. Jain, Shilpa (1998). Plane frame analysis – An object oriented approach with C++. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*
87. Rao, G. S. (1997). Thermal buckling of laminated plates. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*
88. Reddy, Srinivas S. (1996). Closed-form thermo-mechanical solutions of higher-order theories of cross-ply laminated thick shells. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*
89. Garg, A. K. (1995). Flexural study of rectangular laminated composite plates under thermal loading. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*
90. Gupta, S. K. (1995). Flexural study of rectangular laminated sandwich plates under thermal loading. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*
91. Jain, Mohit (1995). Computer aided design of RCC Over Head Water Tanks. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*

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| | 92. Saklecha, P. K. (1993). Flexural study of angle-ply laminated composite and sandwich plates under thermal loading. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>93. Mittal, Y. (1994). A study on effects of cutouts in mat foundation. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>94. Rao, G. V. (1993). An experimental study of buckling behaviour of S.S. laminated GRP plates under uniaxial compression. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>95. Shrivastava, S. (1993). Flexural study of composite laminates due to thermal loading. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>96. Gupta, M. (1992). Comparative study of cylindrical panel of water tanks with straight panels using isoparametric shell elements. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>97. Pasari, S. (1991). Analysis and design of folded plate walls for water tank - A finite element approach. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>98. Bharadwaj, R. L. (1990). Study of flexural behaviour of thin elastic plate with concentric opening (Various shapes) using isoparametric elements. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.*<br>99. Pandu Ranga Rao, B. (1989). Software development and analysis of plane and double layer grids. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore.* |
| (ii) | |
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| **(c)** | **<u>Research Projects</u>** |
| (i) | Title: Seismic Performance of Existing Masonry Buildings, funded by MPCST, Bhopal, Duration – 2 years 2012- 2014, Amount – 4.0 Lac |
| (ii) | Title: Development of Earthquake risk analysis system for RC frame structures on grid computing funded by DST, New Delhi, Duration – 2 years 2010- 2012, Amount – 24.0 Lac |
| (iii) | Title: Non-linear earthquake analysis of R/C Framed Buildings by CDAC, Pune, Duration – 1 year 2009, Amount – 1.0 Lac |
| (iv) | Title: Computer Aided Seismic Analysis and Design of Concrete Structures, Duration – 3 years 2006- 2009, Collaboration with CDAC, Pune, Amount – Self Funded |
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| **(d)** | **<u>Technical Papers Publications</u>** |
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| **(I)** | **<u>International and National Journals</u>** |

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| (i) | 1. Mukati, P., Binnani, N., Khare, R. K., (2021). Analysis of Composite Steel Truss Bridge for different Span to Depth Ratio, *MAT Journal of Structural Technology*, 6(1), 23-30.<br>2. Sharma, R., Yadav, K. K, Binnani, N., Khare, R. K., (2021). Seismic Behaviour of Tall Building Having Twisted Floors with Re-Entrant Corners, *MAT Journal of Civil and Construction Engineering*, 7(1), 16-26.<br>3. Dixit, A., Jain, R., Binnani, N., Khare, R. K., (2021). Seismic Performance and Retrofitting Technique of Building in Indore, *MAT Journal of Structural Technology*, 6(1), 1-6.<br>4. Vishwakarma, R., Binnani, N., Khare, R. K., (2020). Structural behavior and design of concrete chimney due to revision of IS875 (Part 3), *International Journal of Engineering Research and Applications*, 10(12), 29-31.<br>5. Jain, M., Binnani, N., Khare, R. K., Laghate, M. K., (2020). Design and Fabrication Issues in Foot Over Bridges, *MAT Journal of Construction and Building Materials Engineering*, 6(3), 29-33.<br>6. Patil, D. M., Bhargava R. and Khare, R. K. (2019). Performance based seismic evaluation of different Concrete Bridges. *International Journal of Applied Engineering Research*. 14(11), 2799-2805.<br>7. Patil, D. M., Melani A. and Khare, R. K. (2017). Fragility Analysis of Typical Indian Box-Girder Concrete Bridges. *International Journal of Scientific Research in Science, Engineering and Technology.* 3(8), 913-919.<br>8. Patil, D. M., Melani A. and Khare, R. K. (2017). Seismic Fragility Analysis of Damaged Concrete Bridge- A Performance based approach. *International Journal of Current Engineering and Scientific Research*, 4(12), 9-16.<br>9. Patil, D. M., and Khare, R. K. (2017). Seismic Evaluation of Typical Indian I-Girder Concrete Bridges. *International Journal of Civil Engineering and Technology,* 8(5), 1280-1289.<br>10. Pathak, R., Melani, A. and Khare, R.K. (2017). Seismic vulnerability assessment of reinforced concrete single barrel shell structures. *The IUP Journal of Structural Engineering*, **10(2)**, 7-25.<br>11. Pathak, R. and Khare, R.K. (2017). Seismic response prediction of reinforced concrete single barrel shell structure by nonlinear static analysis. *Indian Concrete Journal*, **91(10)**, 61-68.<br>12. Pathak, R. and Khare, R. K. (2016). Seismic Behaviour of Concrete Barrel Shell Structures under Static & Dynamic loads. *Journal of The Bridges and Structural Engineers, ING-IABSE*, **46(1)**, 81-90<br>13. Sharma, A., Malviya, S., Khare, R. K., and Melani, A. (2016). Seismic Evaluation of Masonry Buildings with Flexible Diaphragm: A Performance-Based Approach. *The IUP Journal of Structural Engineering*, **9(2)**, 7-27.<br>14. Sharma, A. and Khare, R. K. (2016). Pushover Analysis for Seismic Evaluation of Masonry Wall. *International Journal of Structural and Civil Engineering Research*, **5(3)**, 235-240.<br>15. Melani, A., Khare, R. K., Dhakal, R. P. and Mander, J. B. (2015). Seismic Risk Assessment of Low Rise RC Frame Structure. *Structures*, **5**, 13-22.<br>16. Sharma, A., Melani, A., Khare, R. K., and Patil, D. M. (2015). Response Reduction Factor of Two Storey Masonry Building using Pushover Analysis. *Journal of Engineering, Science & Management Education*, **8(3)**, 157-165.<br>17. Patil, D. M., and Khare, R. K. (2015). Classification of concrete bridges and damage states for seismic evaluation: a state- of-the- art review. *Journal of the* |

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19. Melani, A., Shiuli, S., Khare, R. K., Sharma, A. (2014). Response reduction R factor of square RC sections for different confinement levels & percentage reinforcement. *Journal of The Bridge and Structural Engineer, ING/IABSE*, **44**(2), 120-129.
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21. Patil, D. M., Bidwai, V. B., Khare, R. K., Choubey, U. B. (2012). Performance of Concrete Bridges in Past Earthquakes- A Basis for Seismic Vulnerability Assessment and Retrofit. *Journal of The Bridge and Structural Engineer, ING/IABSE*, **42**(1), 21-50.
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25. Maniyar, M. M., Khare, R. K. (2011). Selection of Indian ground motions for performing Incremental dynamic analysis of existing RC buildings, *Current Science,* **10**(5), 701-713.
26. Maniyar, M. M., Khare, R. K., Dhakal, R. P. (2009). Probabilistic seismic performance evaluation of non-seismic RC frame buildings, *Structural Engineering and Mechanics*, **33**(6), 22pp.
27. Joshi, R.R, Khare, R. K. and Choubey, U.B. (2008). Analysis and design of cylindrical water tanks with vertical stiffners using stiffened flat shell element. *Journal of The Bridge and Structural Engineer, ING/IABSE*, **38**(3), 23-74.
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29. Maniyar, M. M., Khare, R. K. (2008). Seismic vulnerability of existing non-seismic reinforced concrete framed buildings, *Indian Concrete Journal*, **82**(4), 27-35.
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| | Seismic performance and financial risk of masonry house, *ISET Journal of Earthquake Technology* **44**(3-4), 421-444.<br>34. Dhakal, R. P., Khare, R. K. and Mander, J. B. (2006). Economic payback of improved detailing for concrete buildings with precast hollow–core floors, *New Zealand society of earthquake engineering bulletin*, **39**(2), 106-119.<br>35. Garg, A. K., Khare, R. K. and Kant, T. (2006). Higher-order Closed-form solutions for free vibration of laminated composite and sandwich shells, *Journal of Sandwich Structures and Materials* , **8**(2), 95-124.<br>36. Garg, A. K., Khare, R. K. and Kant, T. (2006). Free vibration of skew fibre-reinforced composite and sandwich laminates using a shear deformable finite element model, *Journal of Sandwich Structures and Materials*, **8**(1), 33-53.<br>37. Khare, R. K., Rode, V., Garg, A. K. and John, S. P. (2005). Higher-order closed-form solutions of thick laminated sandwich shells, *Journal of Sandwich Structures and Materials*, **7**(4), 335-358.<br>38. Khare, R. K., Garg, A. K. and Kant, T. (2005). Free vibration of sandwich laminates with two higher-order shear deformable facet shell element models, *Journal of Sandwich Structures and Materials*, **7**(3), 221-244.<br>39. Khare, R. K., Kant, T. and Garg, A. K. (2004). Free vibration of composite and sandwich laminates with a higher-order facet shell element. *Composite Structures*, **65(3-4),** 405-418.<br>40. Khare, R. K., Kant, T. and Garg, A. K. (2003). Closed-form thermo-mechanical solutions of higher-order theories of cross-ply laminated shallow shells. *Composite Structures*, **59**, 313-340.<br>41. Shrivastava, J. P. and Khare, R. K. (2001). Shortfall and remedies of Engineering Ph.D. personnel in India (2000-2010). *The Indian Journal of Technical Education*, **24(2)**, 6-23.<br>42. Shrivastava, J. P. and Khare, R. K. (2000). Present Out-turn of Engineering Ph.D. in India. *The Indian Journal of Technical Education*, **23(4)**, 1-22.<br>43. Shrivastava, J. P. and Khare, R. K. (1999). Technical manpower in India beyond 2000. *The Indian Journal of Technical Education*, **22(2)**, 1-10.<br>44. Shrivastava, J. P. and Khare, R. K. (1998). Growth of technical education and unemployment pattern – Regional imbalance and remedies. University News, **36(50)**, 26-37.<br>45. Shrivastava, J. P. and Khare, R. K. (1998). Projections for progressive stock of technical manpower in India. *The Indian Journal of Technical Education*, **21(4)**, 11-20.<br>46. Kant, T. and Khare, R. K. (1997). A higher-order facet quadrilateral composite shell element. *Int. J. Numer. Meth. Eng.* **40**, 4477-4499.<br>47. Khare, R. K. (1996). Thermal stress analysis of thick angle-ply laminated sandwich plates. *Journal of Structural Engineering.* **22**(4). 171-177.<br>48. Jain, J. K., Khare, R. K. and Pasari, S. (1995). Analysis and design of folded plate walls for water tank - A finite element approach. *The Indian Concrete Journal.* **69**(6), 345-348.<br>49. Kant, T. and Khare, R. K. (1994). Finite element thermal stress analysis of composite laminates using a higher order theory. *J. Thermal Stresses.* **17**, 229-55. |
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| **(a)** | **<u>Technical Papers –International /National Conferences</u>** |
| (i) | 1. Pathak, R. and Khare, R.K. (2019). Finite Element Modelling and Free Vibration |

Analysis of RC Shell & Spatial Structures for Seismic Evaluation**,** *Proc. of International Conference on "Recent Advances in Interdisciplinary Trends in Engineering & Applications*", IES, IPS Academy, Indore.

2. Khare, R. K., Binnani, N. (2018). Probabilistic Seismic Hazard Analysis of Punasa Dam Site in India, *Proc. of International Conference on "50 Years of the Development of Grid – Characteristics Method"*, Moscow Institute of Physics and Technology (MIPT), Moscow (Russia).
3. Thakre, B. K., Patil, D. M., Joshi, N. and Khare, R. K. (2014) Nonlinear Modeling and Analysis Procedures for Seismic Evaluation of Concrete Bridges, *International Civil Engineering Symposium (ICES'14***)**, VIT University, Vellore
4. Sharma, A., Jain, P., Khare, R. K., Patil, D. M., Melani, A. (2012). Seismic Hazard Survival and Fragility of Masonry Infilled Reinforced Concrete Framed Building, *Fourth International Conference on Structural Stability and Dynamics 04-06 Jan, 2012*, Malaviya National Institute of Technology, Jaipur, India.
5. Patil, D. M., Melani, A., Khare, R. K., Agarwal, A. (2012). Seismic Evaluation of Concrete Bridge Piers with Single Column and Multi Column Bent, *Fourth International Conference on Structural Stability and Dynamics 04-06 Jan, 2012*, Malaviya National Institute of Technology, Jaipur, India.
6. Melani, A., Khare, R. K., Dhakal, R. P., Uma, S. R. (2012). Seismic Evaluation of RC Frame Structures Designed as per IS-1893, *Fourth International Conference on Structural Stability and Dynamics 04-06 Jan, 2012*, Malaviya National Institute of Technology, Jaipur, India.
7. Pathak, R., Khare, R. K., Guha, S., Rai, S. (2012). Modelling of Large Span Reinforced Concrete Shell Structures for Seismic Evaluation, *Fourth International Conference on Structural Stability and Dynamics 04-06 Jan, 2012*, Malaviya National Institute of Technology, Jaipur, India.
8. Pathak, R., Melani, A., Khare, R. K., Guha, S. (2011). Prediction of Seismic Collapse Capacity of Folded Plate Structures Using Non-Linear Static Analysis Method, 2nd *International Conference on Current Trends in Technology 08-10 Dec., 2011*, Institute of Technology, Nirma University, Ahmedabad, India.
9. Pathak, R., Melani, A., Khare, R. K., Rai, S. (2011). Application of pushover analysis for seismic response prediction of reinforced concrete shell structures, *International Conference on Earthquake Analysis and Design of Structures 01-02 Dec., 2011*, PSG College of Engineering, Ahmedabad, India.
10. Khare, R. K., Melani, A., Shah, M., Gawali, P. (2011). Need of High performance computing in incremental dynamic analysis, *Russian-Indian Workshop on Advanced Computational Modelling and Simulations 19-23 Sept., 2011*, RICCR ICAD RAS, Moscow, Russia.
11. Khare, R.K., Kant, T., Garg, A. K., Murthy, Yogesh, Iyer. (2011). Transient analysis of composite laminates and sandwich plates using higher-order quadrilateral flat facet shell element, *16th International conference on composite structures (ICCS 16) 2011*, FEUP, Porto, Porto-Portugal, 28-30 June 2011.
12. Khare, R. K., Melani, A., Shah, M., Gawali, P. (2011). Earthquake risk analysis of RCC structures using Incremental Dynamic Analysis & OpenSees on HPC, *Next Generation Application Challenges on Param Yuva, 25-26 Feb., 2011*, C-DAC, Pune, India.
13. Khare, R.K., Kant, T., Garg, A. K., Murthy, Yogesh, Iyer. (2011). Higher-order flat facet shell element for transient analysis of composite laminates, *National conference on advances in materials and structures (AMAS-2011)*, 3rd Feb-4th Feb, 2011, Pondichery Engineering College, Puduchery, 3-4 Feb, 2011.

14. Khare, R. K., Melani, A., Shah, M., Gawali, P. (2010). Ground motion selection and modification methods, for Earthquake Risk Analysis System for RCC Structures, *DST-RFBR sponsored Indo-Russian Workshop on High Performance Computing in Science and Technologies, 17-19 Nov., 2010,* C-DAC, Pune, India.
15. Danderwal, D., Khare, R.K., Maniyar, M.M. (2008). Seismic hazard analysis of Indore city – A case study, *The 6th Structural Engineering Convention18-20 December 2008,* Structural Engineering Research Centre (CSIR), Taramani, Chennai, India.
16. Shah, M., Khare, R. K., Kant, T. (2008). Transient Analysis of FRP Composite Structures using Higher-Order Flat Facet Elements on Parallel Computers, *Indo-Russian Workshop on Topical Problems in Solid Mechanics 11-14 Nov., 2008*, BITS, Pilani, Goa, India.
17. Garg, A. K., Khare, R.K. (2008). Free Vibration of Fibre Reinforced Skew Laminate using a Higher-Order Shear Deformable Finite Element Model, *National Conference on Technological Advances in Civil Engineering (BITCON 2008) 7-8 Nov., 2008*, Bhilai Institute of Technology Durg, India.
18. Multani, S., Barkale, M., Bidawai, V. B., Khare, R.K. (2008). Seismic Design and Comparison of Precast concrete slabs, *National Conference on Technological Advances in Civil Engineering (BITCON 2008) 7-8 Nov., 2008*, Bhilai Institute of Technology Durg, India.
19. Danderwal, D., Maniyar, M.M, Khare, R.K. (2007). Ground Motion Parameters of LMSR Earthquakes, *23rd National Convention of Civil Engineering organized by Institution of Engineers (India)*, Jabalpur centre, Jabalpur, India.
20. Maniyar, M.M, Khare, R.K., (2007). Fragility analysis of R.C. frame through IDA. *23rd National Convention of Civil Engineering organized by Institution of Engineers (India)*, Jabalpur centre, Jabalpur, India.
21. Maniyar, M.M, Khare, R.K. (2007). Seismic Performance and Design of Precast Concrete Building structures. *23rd National Convention of Civil Engineering organized by Institution of Engineers (India)*, Jabalpur centre, Jabalpur, India.
22. Khare, R. K. (2007). Computer Modelling and Earthquake Analysis and Design of RC framed Buildings. *Proc. National Conference on Earthquake Resistant Construction & Disaster Management, Jan. 12-13, 2007.* MJP Govt. Polytechnic College, Khandwa.
23. Khare, R. K. (2006). Seismic Performance and Design of Precast Concrete Building Structures. *Proc. Workshop on Earthquake Engineering for Teachers, August 18-19, 2006.* Department of Earthquake Engineering, IIT, Roorkee.
24. Kant, T., Khare, R. K. and Gupta, J. P. K. (1996). A higher-order facet quadrilateral finite element formulation for general composite shells. *Proc. First National Conf. on Computer Aided Structural Analysis and Design, Jan. 3-5, 1996.* Osmania University, Hyderabad.
25. Mehta, H. S., Khare, R. K., Kataria, D. and Bharadwaj, R. L. (1991). Effect of shape and size of openings of various shapes in thin elastic isotropic plate using isoparametric element. *International Conference on Mechanics of Solids and Structures, 11-13 Sept., 1991*. Nanyang Technological University, Singapore.
26. Khare, R. K. (1990). Computer aided optimum design of prestressed cement concrete pipes. *Fifth M. P. Young Scientist Congress, 28 Feb. - 2 March 1990.* Vikram University, Ujjain.
27. Jain, J. K. and Khare, R. K. (1988). Stress analysis of gravity dam founded on rock mass having horizontal seam (A case study of Bargi Dam in Madhya Pradesh, India). *International Conference on Case Histories in Geotechnical Engineering*,

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| | *June 1-5, 1988*. Missouri Rolla, Missouri, USA. |
| **(b)** | **Member of Editorial Board** Review of Research Papers in<br>Indian Concrete Journal<br>Journal of Composite of Structures<br>Journal of Sound and Vibration<br>Structural Engineering and Mechanics<br>Meccanica<br>Mechanical Science<br>World Conference of EQE |
| **(c)** | **Books/Proceedings** |
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| (i) | |
| **(e)** | Patents filed / Obtained |

| **6.** | **Awards/ Honours / Special Achievements** |
|---|---|
| (i) | Received INAE Fellowship to work for two months in the area of "Seismic Analysis and Design of Precast Concrete Structures" in Department of Civil Engineering at IIT Kanpur under Prof. S. K. Jain during May-June 2009. |
| (ii) | Awarded Supervisor of **Best M.Tech Thesis** – Second Prize by ISTE New Delhi for ME Thesis by Multani, Shahbuddin, (2007). Seismic analysis & design of precast concrete diaphragms. *Department of Civil Engineering & Applied Mechanics, Shri G. S. Institute of Technology & Science, Indore* |
| (iii) | Received NPEEE Fellowship to work for six months in the area of "Earthquake Resistant Analysis and Design of Precast concrete structures" in Department of Civil Engineering at University of Canterbury, New Zealand under Prof. John Mander during September 2005 to March 2006. |
| (iv) | Received twice (1992 and 1996), Fellowship for the In-service Young Scientist of M.P. for 6 months each by M. P. Council of Science and Technology, Bhopal, M. P. India to work at IIT, Bombay under the supervision of Prof. Tarun Kant, Professor, Deptt. of Civil Engg., IIT, Bombay and thus completed his Ph.D in 1996. |

| **7.** | **Membership of Professional Societies** |
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| | |
| (i) | Member, Earthquake Engineering Research Institute (EERI), USA |
| (ii) | Affiliate Member, American Society of Civil Engineers (Aff. M.ASCE), USA |
| (iii) | Member, Indian Association of Computational Mechanics |

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| | Member, Institution of Engineers, India | M-121059/3 |
| | Member, Indian Geotechnical Society | LM-1618 |
| | Member, Indian Society for Technical Education | LM-19101 |
| | Member, Indian Water Resources Society | LM-92-4159 |
| | Member, Association of Structural Engineering, Indore | LM-26 |

| 8. | Testing and Consultancy Projects undertaken |
|---|---|
| | Structural Design,<br>Finite Element Analysis and Checking of number of small to large scale projects like Industrial, Buildings, Bridges, Water tanks, Pipelines, Intake well, Transmission and Tele Communication Towers, Rigid Pavements, etc.<br>Rapid Visual Screening<br>Design of Concrete Mix<br>Non Destructive Testing<br>Testing of Building Materials<br>Soil Investigations<br>Pile Load Tests, etc., are conducted.<br>Post-earthquake Structural Damage assessment survey at Bhuj and Ahmedabad. |

| 9. | List of Conference/Workshops Organized |
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| | |
| (i) | Institute Certificate Course on Computer Aided Analysis and Design of Structures, 3-15, October, 2016 |
| (ii) | TEQIP Phase –II STTP on Computer Aided Analysis and Design of Concrete and Steel Structures with software like STAAD.Pro, SAP2000 etc., 13-20, January, 2015 |
| (iii) | TEQIP Phase –II STTP on Earthquake Resistant Design of Buildings and Structures, 19-23, September, 2013 |
| (iv) | Two Weeks ISTE Short Term Training Programme on Earthquake Resistant Design of Buildings and Structure, Organized by, CE-AMD, SGSITS Indore between 20 Nov. – 1 Dec. 2006 |
| (v) | 1. Indian Geotechnical Conference – 2001<br>2. Workshop on Geotechnical Investigation and Highway Material Testing<br>3. National Seminar on Geotechnical Problems – Case Studies<br>4. National Paper Presentation Contest for UG/PG Students of Civil Engineering/ Geotech. Engineering – GEOCONCEPT |

| 10. | List of Seminars / Workshops/Summer/Winter Courses Attended |
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| (i) | Faculty Development Programme on Active Cognitive Learning at IIT Madras (Chennai), 4 – 8 June 2018 |
| (ii) | Six months (Sept. 2005 to March 2006) Post-Doctoral Research Training at University |

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| | of Canterbury, Christchurch, New Zealand |
| (iii) | One Semester Certificate Course 2003 on "Earthquake Resistant Design of Structures" at IIT Kanpur |
| (iv) | More than 20 weeks short term courses at<br>IIT, Delhi<br>IIT, Bombay<br>IIT, Roorkee<br>NITTR, Bhopal<br>SGSITS, Indore |

| 11. | Invited Lectures/Talks Delivered |
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| (i) | Invited Lectures in<br>1. IIT, Indore<br>2. College of Engineering, Pune<br>3. MANIT, Bhopal<br>4. Govt Engineering College, Jabalpur<br>5. IES, IPS Academy, Indore<br>6. Sanghavi Institute of Management and Science, Indore<br>7. ACC, Ltd, Indore<br>8. Ultratech, Indore<br>9. UIT, RGPV, Bhopal<br>10. Prestige Institute of Engineering Management & Research, Indore. |
| (ii) | |
| (iii) | Organized and delivered lectures in national seminar and courses in the area of Earthquake Resistant Design, finite element method and computer aided design. Actively participated and delivered lectures in the training programs on Earthquake resistance, preparedness and disaster management for the Engineers, Architects and Students organized by UNDP and District Administration, Indore and Jabalpur. |

| 12. | Any other relevant information |
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| (i) | Examined Ph. D. Thesis at<br>Anna University Chennai<br>SVNIT, Surat<br>VNIT, Nagpur<br>Dharmsingh Desai University, Nadiyad |
| (ii) | MOU signed with Moscow Institute of Physics and Technology and CDAC Pune for research in the area of Nonlinear Seismic Analysis |
| (iii) | Conducted Zonal level quiz competition on Earthquake Tips at Indore for NICEE, IIT, Kanpur |

**Dr. Rakesh Kumar Khare**
**Professor**
**Department of Civil Engineering and Applied Mechanics**

**( Name & Designation)**