

Department of Applied Mechanics
Motilal Nehru National Institute of Technology Allahabad,
Prayagraj-211004

Curriculum Vitae

Dr. RAMESH PANDEY

(B.E. ; M.E. & Ph.D. all from NIT Allahabad)

ASSOCIATE PROFESSOR

DEPARTMENT OF APPLIED MECHANICS

MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY

TELIARGANJ ALLAHABAD (U.P.)- 211004

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Teaching & Research Experience: 21 years

Current Research Areas: Structural & Optimization Analysis of Composite & Bio-Composite Materials & Structures

Academic Qualification: B.E. ; M.E. & Ph.D.

Degree	University / Institute
B.E. (Civil)	MNREC Allahabad.
M.E. (Structure)	MNREC Allahabad
Ph.D. (Composite Structure)	MNNIT Allahabad.

Details of Employment:

Name of Institute	Post Held
MNNIT, Allahabad (U.P.)	Associate Professor (A.G.P. = 9500/-), since March 28, 2018 to till now.
MNNIT, Allahabad (U.P.)	Assistant Professor (A.G.P. = 8000/-), since September 27, 2012 to March 27, 2018.
MNNIT, Allahabad (U.P.)	Assistant Professor (A.G.P. = 7000/-), since May 26, 2009 to September 26, 2012.
MNNIT, Allahabad (U.P.)	Assistant Professor (A.G.P. = 6000/-), May 26, 2006 to May 25, 2009.
NIT Hamirpur (H.P.)	Assistant Professor (A.G.P. = 6000/-), since January 02, 2006 to May 24, 2006.
MNREC, Allahabad (U.P.)	Guest Faculty, since December 1998 to May 2003.

BIT Mesra Ranchi (Ext. Centre) Naini Allahabad (U.P.)	Guest Faculty, since July 2000 to May 2001 (Evening Classes).
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Research IDs: 05

ORCID:- 0000-0002-5067-5175

Scopus Scholar:- 56417062400

Vidawan:- 104660

Researcher:- <https://publons.com/researcher/ABF-4109-2020/>

Google Scholar:- [ApZfLYAAAAAJ](https://scholar.google.com/citations?user=ApZfLYAAAAAJ)

Research & Publications:

Books: 01

1. An Introduction to Strength of Materials, K.K.Shukla, Anuj Jain,& Ramesh Pandey (Narosa Publications, 2014, ISBN: 978-81-8487-101-2)

Book Chapters: 02

1. Buckling and Post-buckling of Composite Plates Under Thermal Loadings, K. K. Shukla and R. Pandey, Encyclopedia of Thermal Stresses, Editor- R. Hetnarski, DOI 10.1007/978-94-007-2739-7, © Springer Science+Business Media Dordrecht , 505-516, (2014).
2. Devi N., Bhar A., Pandey R. (2020) Isogeometric FE Analysis of Laminated Composite Plates. pp 321-331, In: Biswal B., Sarkar B., Mahanta P. (eds); Advances in Mechanical Engineering (Select Proceedings of ICRIDME 2018), Book Series: Lecture Notes in Mechanical Engineering. Feb, 2020, Springer, Singapore. Print ISBN: 978-981-15-0123-4, Online ISBN: 978-981-15-0124-1.

Journals: 15

1. Prakash, Ankit, Nishant Sati, Piyush Pratap Singh, Sajal KB Degala, Anubhav Rawat, Ramesh Pandey, and R. P. Tiwari. "Design of economic PODS to safeguard against contagious diseases using computational fluid dynamics (CFD) ", Journal of Physics: Conference Series, vol. 1849, no. 1, p. 012006. IOP Publishing, 2021. (Scopus)
2. Sangharsh Kumar Singh, Ramesh Pandey and A. K. Upadhyay (2020) "A numerical study on combined effects of groove shape and numbers on crashworthiness characteristics of thin-walled tube". Volume 44, Part 6, Pages 4381-4386, Materials Today: Proceeding (Scopus).

3. Sangharsh Kumar Singh, A. K. Upadhyay and Ramesh Pandey (2020) "A numerical analysis of effect of variation of groove on thin-walled tube under quasi-static load". Volume 26, Part 2, Pages 2113-2115, Materials Today: Proceeding (Scopus).
4. Kumar Pankaj, Ramesh Pandey (2014) "Buckling Analysis of Symmetric Cross-Ply Laminated Annular Plates with Carbon Nanotubes", J. Applied Mechanics and Materials, Vols 592-594, Pages 901-905 (SCI)
5. G. Bhardwaj, A.K. Upadhyay, R. Pandey, K.K. Shukla (2013), "Nonlinear Flexural and Dynamic Response of CNT Reinforced Laminated Composite Plates", J. Composites-B, 45(1), 89-100 (SCI).
6. Ramesh Pandey, A. K. Upadhyay, K. K. Shukla and Anuj Jain (2012)," Nonlinear Dynamic Response of Elastically Supported Laminated Composite Plates", J. Mechanics of Advanced Materials and Structures: Taylor & Francis, 19(6), 397-420 (SCI).
7. S. Singh, K. V. Kulkarni, R. Pandey and H. Singh (2012), "Buckling Analysis of Thin Rectangular Plates with Cutouts subjected to Partial Edge Compression using FEM", Journal of Engineering, Design and Technology (Emerald), 10(1), 128-142 (Scopus).
8. A. K. Upadhyay, Ramesh Pandey and K. K. Shukla (2011), "Nonlinear Dynamic Response of Laminated Composite Plates Subjected to Pulse loading .", Communications in Nonlinear Science and Numerical Simulation,16(11),4530-4544 (SCI).
9. Ramesh Pandey, A. K. Upadhyay and K. K. Shukla (2010), "Hygro-Thermo- Elastic Post buckling Response of Laminated Composite Plates", J. Aerospace Engineering, ASCE, 23(1), 1-13 (SCI).
10. A. K. Upadhyay, Ramesh Pandey and K. K. Shukla (2010), "Nonlinear Flexural Response of Laminated Composite Plates under Hygro-Thermo-Mechanical Loading", Communications in Nonlinear Sciences and Numerical Simulation, 15(9), 2634-2650 (SCI).
11. R. Pandey, K. K. Shukla and A. Jain (2009), "Thermoelastic Stability Analysis of Laminated Composite Plates: An analytical approach", Communications in Nonlinear Sciences and Numerical Simulation, 14(4), 1679-1699 (SCI).
12. R. Pandey, K. K. Shukla, and A. Jain (2008), "Nonlinear Flexural Analysis of Laminated Composite Plates", Int. J. Applied Mechanics & Engineering, 13(3), 707-733 (Scopus).
13. K. K. Shukla, K.V. Ravi Kumar, R. Pandey and Y. Nath (2007), "Postbuckling Response of Functionally Graded Rectangular Plates Subjected to Thermo-mechanical Loading", Int. J. Structural Stability and Dynamics, 7(3), 519-541 (SCI).

14. D. N. Paliwal and Ramesh Pandey (2001), "Free Vibrations of an Orthotropic Thin Cylindrical Shell on a Pasternak Foundation", *AIAA J.*, 39 (11), 2188-2191 (SCI).
15. Prakash, Ankit, Nishant Sati, Piyush Pratap Singh, Sajal KB Degala, Anubhav Rawat, Ramesh Pandey, and R. P. Tiwari, (2021), "Design of economic PODS to safeguard against contagious diseases using computational fluid dynamics (CFD)." In *Journal of Physics: Conference Series*, vol. 1849, no. 1, p. 012006. IOP Publishing, (Scopus)

Conferences Proceedings: 29

1. Sajal Kumar Babu Degala, Ramesh Pandey, Ashutosh Mishra, Abhishek Kumar Tiwari & Ravi Prakash Tewari (2022), "IoT based Low-Cost Pulse Oximeter for Remote Health Monitoring", in *International Conference on Advancements in Interdisciplinary Research; Theme: Smart & Sustainable Society (AIR-2022)* held on May 06-07, 2022, at MNNIT Allahabad, Prayagraj, India.
2. Jitendra Mehta, Ramesh Pandey & R. P. Tewari (2022), "Light Weighted Model Based on Convolutional Neural Network for Detection of COVID -19 Using Chest X-Ray Images", in *International Conference on Advancements in Interdisciplinary Research; Theme: Smart & Sustainable Society (AIR-2022)* held on May 06-07, 2022, at MNNIT Allahabad, Prayagraj, India.
3. Dwijendra Dubey, Ashutosh Mishra, Taufeeq Ahmad & Ramesh Pandey (2022), "Influence of geometry changes on the cooling performance of Lithium ion battery", in *International Conference on Advancements in Interdisciplinary Research; Theme: Smart & Sustainable Society (AIR-2022)* held on May 06-07, 2022, at MNNIT Allahabad, Prayagraj, India.
4. Divya Pandey, Ramesh Pandey & Ravi Prakash Tewari (2022), "Application of Carbon-PLA based composites for Orthotics and Prosthetics applications", in *International Conference on Advancements in Interdisciplinary Research; Theme: Smart & Sustainable Society (AIR-2022)* held on May 06-07, 2022, at MNNIT Allahabad, Prayagraj, India.
5. Kumar V., Pandey R & Kumar S. (2021), "Recent Research of Active Vibration Control Analysis of Functionally Graded Materials using Piezoelectric Materials: A Review", in *International Conference on Sustainable Engineering (ICSE-2021)*, organized by Government Engineering College Bikaner, Rajasthan, held on February 26-27, 2021.
6. Ashwin Pandey, Ankit Prakash, Ramesh Pandey, Anubhav Rawat (2021), "Simulation and Analysis of Natural Gas Pipe Network for MNNIT (Allahabad) Staff Colony", *Proceedings of VSAM-2021*, 4-5 June, 2021, MNNIT-Allahabad

7. Sangharsh Kumar Singh, A. K. Upadhyay and Ramesh Pandey (2020) “A numerical analysis of effect of variation of groove on thin-walled tube under quasi-static load”. 10th International Conference of Materials Processing and Characterization, GLA Mathura.
8. Sangharsh Kumar Singh, A. K. Upadhyay and Ramesh Pandey (2019) “A numerical investigation of collapse behavior and energy absorption of thin-walled grooved tube with variation of groove depth”. International Conference on Energy, Environment & Material Sciences (ICE2M), MMTU Gorakhpur.
9. Devi N., Bhar A.* and Pandey R. (2019), “Static Analysis of Skew Laminated Composite Plates using Isogeometric Finite Element Method”, (Paper ID. 141), National Conference on Advances in Structural Technologies (CoAST-2019), NIT Silchar, Shillong, India, February 01-03, 2019.
10. Devi N., Bhar A.* and Pandey R. (2018), “Isogeometric FE Analysis of Laminated Composite Plates”, (Paper No. 252), International Conference on Recent Innovations and Developments in Mechanical Engineering (IC-RIDME18), NIT Meghalaya, Shillong, India, November 8–10
11. Ranjeet Nayak, Sangharsh K.Singh, A.K.Upadhyay, Ramesh Pandey (2018),"A numerical investigation into the collapse behavior of thin walled grooved tubes under axial impact", First Symposium and Workshop for Analytical Youth on Applied Mechanics (SWAYAM 2018), BITS Pilani, KK Birla Goa Campus,pp.7-8, 07/2018, Published By. Ane Books Pvt. Ltd..
12. Kumar Pankaj and Ramesh Pandey (2014), “ Buckling Analysis of Symmetric Cross Ply Laminate Annular Plates with Carbon Nano Tubes”, Periodical of Applied Mechanics and Materials, Scientific.Net, 592-594, 901-905
13. G. Bhardwaj, A. K. Upadhyay, R. Pandey and K. K Shukla (2012), “Buckling and Post-buckling Response of CNT Reinforced Multi-Scale Composite Laminated Plates”, Proc. 4th International Conference on Structural Stability and Dynamics (ICSSD-2012), January 04 – 06, 2012, held at MNIT Jaipur, India, pp. 56-64, Vol.-I
14. G. Bhardwaj, A. K. Upadhyay, R. Pandey and K. K Shukla (2011), “Effect of CNT Percentage and Aspect Ratio on the Elastic Properties of CNT Reinforced Multi-Scale Composite”, Proc. of International Conference on Advances in Materials and Material Processing (ICAMMP-2011), December 09-11, held at Indian Institute of Technology Kharagpur (West Bengal), India.
15. G. Bhardwaj, R. Pandey, K.K. Shukla (2011), “Flexural Response of CNT reinforced multi-scale composite cross ply laminated plates ” ISAMPE (Indian Society for advancement of materials and process engineering) National Conference

on Composites-INCCOM 10 November 18-19,2011 held at Pune Chapter Research and Development Establishment (Engineers)-Pune

16. S. Singh, K. V. Kulkarni, R. Pandey and J. Singh (2010), "Stability of Rectangular Plates Subjected to Partial Edge Loading" Proc. Advances in Materials and Product Design, November 22-23, held at Sardar Vallabhbhai National Institute of Technology, Surat (Gujarat), India, pp.-330-334
17. S. Singh, H. Singh and R. Pandey (2010), "Design of T-Slotted Type Variable Flange Coupling for Shafts of Different Diameters" Proc. 3rd International Conference on Advances in Mechanical Engineering, January 4-6 held at Sardar Vallabhbhai National Institute of Technology, Surat (Gujarat) India, pp. 367-371.
18. S. Singh, R. Pandey and K. K. Shukla (2010), "Buckling Analysis of Laminated Composite Plates with Eccentric Circular Cutouts using FEM" Proc. 5th International Conference on Theoretical, Computational, Applied and Experimental Mechanics, December 27-29, held at Indian Institute of Technology Kharagpur (West Bengal), India, pp. 95-97.
19. S. Singh, K. V. Kulkarni and R. Pandey (2010), "Design of Low Weight Helical Springs with Isotropic Materials" Souvenir 55th Congress of Indian Society for Theoretical and Applied Mechanics, IIT Kharagpur, December 18-21, held at National Institute of Technology, Hamirpur (Himachal Pradesh), India.
20. G. Bhardwaj , K.K Shukla and R.Pandey (2010), "An Investigation of Mechanical Properties of Carbon Nanotube Reinforced Multiscale composites" Accepted for 55th congress of the Indian Society of Theoretical and Applied Mechanics, December 18-21, 2010 to be held at National Institute of Technology, Hamirpur (Himachal Pradesh), India.
21. S. Singh, G. Bhardwaj and R. Pandey (2010), "Determination of Stress Correction Factor for Open and Closely Coiled Hollow Helical Springs" Proc. 3rd International Conference on Advances in Mechanical Engineering, January 4-6 held at Sardar Vallabhbhai National Institute of Technology, Surat (Gujarat) India, pp. 453-456
22. Sumit Sharma, Ramesh Pandey, A. K. Upadhyay and K. K. Shukla (2009), "Post buckling Response of Hybrid Plates", ICCMS09, IIT Mumbai, (01-05 December, 2009, pp.-81-82).
23. Sandeep Singh, Ramesh Pandey and Harpreet Singh (2009), "Design and Static Stress Analysis of T- Slotted Type Variable Flange Coupling", ICCMS09, IIT Mumbai, (01-05 December, 2009, pp.-107-108)
24. Gagandeep Bhardwaj, Ramesh Pandey and Amit Kumar Sharma (2009), "Manufacturing and Testing of Al-SiC Composite Material", ICCMS09, IIT Mumbai, (01-05 December, 2009, pp.- 125-126).

25. R. Pandey, A. K. Upadhyay, K. K. Shukla and A. Jain (2007), "Nonlinear Response of Laminated Composite Plates under Hygro-Mechanical Loading", ICTACEM – 07, IIT Kharagpur. (27-29 December, 2007. pp- 402-404)
26. R. Pandey, K. K. Shukla and A. Jain (2006), "Postbuckling Response of Laminated Composite Rectangular Plates", ICCMS- 06, IIT Guwahati. (08-10 December, 2006, pp.- 257-263)
27. V. Anjani Kumar, Ramesh Pandey, K. K. Shukla and Jin H. Huang (2006), "Linear Vibration Analysis of Composite Rectangular Plates: A State Space Approach", ICCMS- 06, IIT Guwahati. (08-10 December, 2006, pp.- 634 - 641)
28. Ramesh Pandey, K. K. Shukla and Anuj Jain (2004), "Nonlinear Static Analysis of Laminated Composite Plates", ICTACEM- 04, IIT Kharagpur. (28-30 December, 2004, pp.- 140-142)
29. K. K. Shukla, Manoj S. Patil, Ramesh Pandey and Anuj Jain (2004) "Thermal Buckling of Functionally Graded Rectangular Plates", 17th Engineering Mechanics Conference, ASCE , USA, 2004.

Seminars/Workshops Organized: 11

- 1) Organizing Secretary of a three day National Workshop on "Advanced Functional Materials and Structures" (AFMS_2012) in Collaboration with University of Missouri - Columbia, USA organized at MNNIT Allahabad during 12-14 July, 2012.
- 2) Organized a Workshop on "Personality Development for Human Excellence" based on the Principles of Swami Vivekananda on 12 October, 2012. (Speakers- Swami Nikhilatmananda Jee, Swami Suvyakta Narsimha Das Jee & Sri Raviraj Singh)
- 3) Organized a Workshop on "Power of Positive Thinking and Way to Success" for Personality Development on 06 February, 2013. (Speaker- Sri Raviraj Singh)
- 4) Organized a Workshop on "Human Efforts, Destiny and Gods Grace: Way to Success" scheduled on August 23, 2013". (Speakers- Swami Nikhilatmananda Jee, Swami Yudisthiranand Jee & Sri Raviraj Singh)
- 5) Organized a Workshop on "A Meaningful Life" scheduled on August 29, 2014" . (Speakers- Swami Yudisthiranand Jee & Sri Raviraj Singh)
- 6) Organized a Workshop on "Secrets of Success in life" scheduled on August 10, 2015. (Speakers- Sri Raviraj Singh, Sri Rajesh Mishra)

- 7) Organized a Workshop on “Secrets of Personality Development” scheduled on January 21, 2016. (Speakers- Sri Raviraj Singh & Sri Rajesh Mishra)
- 8) Treasurer of a two day National Workshop on “Inclusive Technical Education in National Context: Challenges and Solutions” organized at MNNIT Allahabad during July 16-17, 2016 by the Applied Mechanics Department & Civil Engineering Department Chairman: Prof. A. K. Singh, Convener: Dr. L. K. Mishra, Coordinator: Dr. R. P. Tewari).
- 9) Organized a Workshop on “Bring Out The Best in You” for Personality Development on 30 August, 2016. (Speaker- Sri Vivek Bindra)
- 10) Convener of a one day National Workshop on “Inclusive Technical Education in National Context: Challenges and Solutions-2018” organized at MNNIT Allahabad on September 13, 2018 by the Applied Mechanics Department, Coordinator: Prof. R. P. Tewari).
- 11) Convener of a one day Debate Programme on “National Education Policy-2019” organized at MNNIT Allahabad and sponsored by TEQIP-III on July 19, 2019 by the Applied Mechanics Department, Coordinator: Prof. R. P. Tewari).

Seminars/Workshops Attended: 13

- 1) Three days “3rd Indian Conference on Applied Mechanics (INCAM-2017) organized by Department of Applied Mechanics, MNNIT Allahabad. (July 5-7, 2017 by Prof. K. K. Shukla, Dr. Ashutosh Kumar Upadhyay & Dr. Vivek Kumar Patel)
- 2) Three days International Conference on “Fluid Mechanics and Fluid Power (FMFP-2016)” organized by Department of Applied Mechanics, MNNIT Allahabad. (December 15-17, 2016 by Prof. A. K. Jain & A R Paul)
- 3) Three days IEEE International Conference on “Advances in Mechanical, Industrial, Automation and Management Systems (AMIAMS 2017)” organized by Department of Mechanical Engineering, MNNIT Allahabad. (February 3-5, 2017, by Prof. Rakesh Narain & Manish Gupta)
- 4) Three days International Conference on “Recent Trends & Challenges in Civil Engineering (RTCCE-2014)” organized by Department of Civil Engineering, MNNIT Allahabad. (December 12-14, 2014 by Prof. A. K. Sachan.
- 5) Seven Days National Workshop on “Optimization Techniques & heir Applications (NWOTA-2013)” organized by Department of Mathematics, MNNIT Allahabad. (June 5-11, 2013 by Dr. Pitam Singh & Dr. Mukesh Kumar)

- 6) One day Workshop on “Curriculum Development”, on 25 March, 2012, Department of Civil Engineering, MNNIT, Allahabad (Prof. R. P. Tewari)
- 7) Two days National Seminar on “Managing Inclusive Growth in India: A Re-Look into the Socio – Economic Perspectives”, 12 February – 13 February, 2010, Department of Humanities and Social Sciences, MNNIT, Allahabad (Co-ordinators: Dr. Ambalika Sinha, Prof. P. R. Agrawal & Dr. Niroj Banerji)
- 8) Three days Workshop on “Virtual Instrumentation & Its Applications (WVIA-09)”, 18 March – 20 March, 2009, Department of Electrical Engineering, MNNIT, Allahabad (Co-ordinator: Dr. Ramesh Tripathi & Dr. R. Gupta) (18-20 March, 2009)
- 9) Two days Workshop on “Curriculum Development”, 22 August – 23 August, 2009, Department of Civil Engineering, MNNIT, Allahabad (Prof. S. K. Duggal & Prof. R. P. Tewari)
- 10) Two week Faculty Development Programme on “Entrepreneurship and Innovation”, December 22, 2008 to January 03, 2009, School of Management Studies, MNNIT, Allahabad (Co-ordinator: Prof. Geetika)
- 11) One Day workshop organized by TCS on 19-09-2008 at Indian Institute of Information Technology Allahabad (IIIT Allahabad) in the capacity of departmental representative based on managerial issues.
- 12) One week Short Term Course on “Finite Element Analysis- Theory & Practice”, January 29 – February 03, 2007, Department of Applied Mechanics and Mechanical Engineering, M.N.N.I.T. Allahabad (Coordinators: Prof K. K. Shukla and Dr. Mukul Shukla).
- 13) Two days “Induction Training Programme on Teaching Methods”, 28-29 January, 2006, at NIT Hamirpur.(Co-ordinators: Prof. Rakesh Sehgal & Prof. R.L. Sharma)

Membership of Society/Organization: 02

1. Corporate Member of the Institution of Engineers, India (**M-148545-2**)
2. Life Member of Indian Society for Applied Mechanics - **ISAM (LM-00107)**

Reviewer of Journal: 05

1. International Journal of Composite Structures, “A refined five-unknown higher-order model including transverse hygrothermal deformation” , COST-D-16-00219, March 18, 2016.
2. Reviewer of International Journal of Aerospace Engineering
3. Reviewer of International Journal of Composite Structures

4. Reviewer of International Conference on “Advances in Mechanical, Industrial, Automation and Management Systems (AMIAMS 2017)”
5. Editor of International Journal of Advanced Research in Applied Mechanics & Computational Fluid Dynamics

Ph. D. Theses Supervised: NIL (06 in Progress)

1. Mr. Dwijendra Dubey (2021RAM07), Co-supervisor: Dr. Ashutosh Mishra
2. Mr. Sajal Kumar Babu Degala (2020RAM06)
3. Mr. Jitendra Mehta (2019RAM01)
4. Ms. Divya Pandey (2017RAM01), Co-supervisor: Prof. R. P. Tewari
5. Ms. Nidhi Devi (2016RAM01), Co-supervisor: Dr. Anindya Bhar
6. Mr. Sangharsh Kumar Singh (2016RAM04), Co-supervisor: Dr. A. K. Upadhyay

M.Tech Theses Supervised : 45

1. Mr. Ashutosh Kumar Upadhyay, “Hygroscopic Effects on Bending and Stability of Laminated Composite Plates”, 2007 (Co-Guide: Prof. K. K. Shukla)
2. Mr. Ch. Ramakrishna, “Linear Static Analysis of Laminated Composite Plates with Integrated Piezoelectric Actuators”, 2008.
3. Mr. Amit Sharma, “Nonlinear Static Analysis of Laminated Composite Plates with Integrated Piezoelectric Actuators”, 2009.
4. Mr. Sumit Sharma, “Nonlinear Stability Analysis of Laminated Composite Plates with Integrated Piezoelectric Actuators”, 2009. (Co-Guide: Prof. A.K Govil)
5. Mr. Shivendra Srivastava, “Nonlinear Dynamic Analysis of Laminated Composite Plates with Integrated Piezoelectric Actuators”, 2009.
6. Mr. Sunil Prasad, “Nonlinear Static Analysis of Laminated Composite Plates with Feedback Control”, 2010 (Co-Guide: Prof. A.K Govil)
7. Mr. Sushant Singhg, “Post-Buckling Analysis of Laminated Composite Plates with Feedback Control”, 2010. (Co-Guide: Prof. K.K Shukla)
8. Mr. Sunkulp Goel, “Nonlinear Dynamic Analysis of Laminated Composite Plates with Feedback Control”, 2010
9. Mr. Abhay Kumar Singh, “Finite Element Analysis of Stiffened Plates of Functionally Graded Material”, 2010 (Co-Guide: Er. Anindya Bhar)

10. Mr Sandeep Singh, “ Linear Analysis of Laminated Composite Plates using Meshless Method”, 2011(Co-Guide: Prof. K. K. Shukla)
11. Mr. Gagandeep Bhardwaj, “Static and Dynamic Analysis of CNT Reinforced Multi-Scale Composite Laminated Plates”, 2011(Co-Guide: Prof. K. K. Shukla)
12. Mr. Sanjay Kumar Tiwari, “Buckling Analysis of Rectangular Laminated Composite Plate with Material Nonlinearity”, 2011(Co-Guide: Prof. D. N. Paliwal)
13. Mr.Raj Vardhan, “Static Response of Stiffened Composite Plates bonded with Peizoelectric Layers”, 2011(Co-Guide: Er. Anindya Bhar)
14. Mr. Hemant Verma, “ Buckling and Free Vibration Analysis of a Composite Plate using Two Variable Refined Plate Theory”, 2012.
15. Mr. Pradeep Kumar Mishra, “ Free Vibration and Static Analysis of Stiffened Plate”, 2012.
16. Mr. Gaurav Verma, “Analysis of Laminated Composite Plates using ABAQUS”, 2012.
17. Mr. Bharat Bhushan Sharma, “Post Buckling Analysis of Laminated Composite Skew Plates with Geometric Imperfection”, 2013 (Co-Guide: Dr. Ashutosh Kumar Upadhyay)
18. Mr. Tushar Sharma, “ Evaluation of Mechanical Properties of Single Wall Carbon Nanotube & Multi Wall Carbon Nanotube Using Fe Simulation”, 2013 (Co-Guide: Prof. K. K. Shukla)
19. Mr. Deepak Kumar, “Buckling Analysis of CNT Reinforced Laminated Composite Plates”, 2013 (Co-Guide: Prof. K. K. Shukla)
20. Mr. Abhishek Srivastava, “Some Parametric Study on the Finite Element Analysis of Functionally Graded Stiffened Plates”, 2013 (Co-Guide: Dr. Anindya Bhar)
21. Mr. Shashi Kant Singh, “Some Parametric Studies on Response Behaviour of Laminated Composite Stiffened Plates”, 2013 (Co-Guide: Dr. Anindya Bhar)
22. Mr. Kumar Pankaj, “In- Plane Free Vibration of Symmetrically Laminated Rectangular Composite Plates”, 2014
23. Mr. Abhijeet Kumar, “Vibration Analysis of Stepped Rectangular Plate Using Spectral Finite Element Method”, 2014

24. Ms. Smriti Srivastava, "Static Analysis of Laminated Composite Plates using Random Properties", 2015
25. Mr. Lavkush Verma, "Dynamic Analysis of Laminated Composite Plates using Random Properties", 2015
26. Mr. Chandra Mani Gupta, "Free Vibration Analysis of Functionally Graded Materials Plate Using Navier Method", 2016
27. Mr. Rohit Jain, "Buckling Analysis of Rectangular Laminated Composite Plate with Cut-Outs using FEA", 2016
28. Mr. Sanjeet Kumar, "Buckling Analysis of Fiber-Composite Laminated Plates with Material Non-Linearity", 2016
29. Mr. Satya Pal Singh, "Static Analysis of Functionally Graded Material Plate using COMSOL Multiphysics", 2016
30. Mr. Amit Kumar, "Static Analysis of FGM Plate on Elastic Foundation", 2017
31. Mr. Prakash Chandra Gautam, "Static Analysis of Sandwich Composite Plate", 2017
32. Mr. Ankush Dhadwalia, "Numerical Analysis of Low Velocity Impact on Laminated Composite Plate", 2017
33. Mr. Prashant Shahi, "Selection and Fabrication of Composite Material for Ankle Foot Orthoses", 2017 (Co-supervisor: Dr. R. P.Tewari)
34. Mr. Mayank Kumar Yadav, " Synthesis of Nanodiopside Powder for coating over metallic implants", 2018 (Co-supervisor: Dr. R. P.Tewari)
35. Mr. Udayshankar Patel, "Preparation of Hydroxyapatite from Biowaste", 2018 (Co-supervisor: Dr. R. P.Tewari)
36. Mr. Amod Kumar, " Optimization of stacking sequence of laminated composite plates for Buckling analysis", 2018
37. Mr. Shashi Prakash, "Optimization Analysis of laminated composite plates using lamination parameters", 2018
38. Mr. Shubham Keshari, "Analysis of Composite Laminates using Permutation Search Algorithm", 2019.
39. Mr. Ranjeet Kumar, "Heat Transfer Analysis of Metal Composite Vessel by Finite Difference Method", 2019.

40. Mr. Manoj Kumar, “Static Analysis of Laminated Composite Plate using RBF-FD Method with GLODS Technique”, 2019.
41. Mr. Abhimanyu Yadav, “Optimization Analysis of Laminated Composite Grid Plates using Genetic Algorithm”, 2019
42. Mr. Praveen Kumar Gaurav (2018EM09), “Static Analysis of Composite Structures using Artificial Intelligence”, 2020
43. Mr. Saripalli Dinesh Yadav (2018EM13), “Vibration Analysis of Composite Structures using Artificial Intelligence”, 2020.
44. Mr. Nishant Gupta (2018EM14), “Buckling Analysis of Composite Structures using Artificial Intelligence”, 2020.
45. Mr. Vivek Kumar (2019EM20),” Vibration Control Analysis of Functionally Graded Composite Structure Using Smart Materials”, 2021

List of Expert Lectures: 01

1. Expert Lectures delivered for Two Week in a Self-Financed Short Term Internship Programme on, “Evolving Concepts in Design of Reinforced Concrete Buildings (Design-2019)” organized by CED of MNNIT Allahabad, Prayagraj, June 03- 28, 2019 (Convener- Prof. L. K. Mishra, Co-ordinators- Dr. Goutam Ghosh & Dr. Rama Shanker)

Projects: (02) Submitted

1. Application of Artificial Intelligence in early detection of COVID-19 and other diseases to UPCST on February 26, 2022
2. DST’s NIDHI i-TBI Proposal (TPN No. 65362) on January 18, 2022

Patents: (01) Applied

1. A Smart Temperature Measuring System with minimal human intervention (Application No.- 202111020581A, Date of Publication: 29/10/2021, Date of filing application: 05/05/2021)

Administrative Positions hold outside the Institute: 04

1. A member of BOS (Board of Scrutineers) for conducting election for sessions 2015-17 & 2017-19.
2. Centre Controller of SEE- UPTU:2007 at IERT Allahabad held on April 22, 2007 appointed by Central Admission Board (CAB)
3. Examiner of UPTU (IERT) Engineering Mechanics Practical since 2008-2011.

4. Director's Nominee as FRP Expert for Purchase of helmets in PHQ Allahabad on 22 December, 2015 and August 17, 2016.

Administrative Positions hold at Institute Level: 24

1. Head, Department of Applied Mechanics for the period 18-08-2019 to 17-08-2021.
2. Secretary, MNNIT Alumni Association for the period 2013-17.
3. Joint Secretary-I, MNNIT Alumni Association for the period 2011-13.
4. Executive Committee Member, MNNIT Alumni Association for the period 2017-19.
5. A member of the committee constituted for Alumni Office Furnishing (2015-16)
6. Secretary, Allahabad Local Chapter, MNNIT Alumni Association for the period 2016-17 & 2017-18.
7. Secretary, Durga Puja Committee of Institute from 2017-20.
8. Secretary of MNNIT staff club for the period 2013-14.
9. Executive member of MNNIT staff club for the period 2012-13.
10. Institute Coordinator of a two-member technical review committee constituted for examining Executive Development Center Building. The committee comprised of Prof. Veerendra Kumar, Civil Engineering Department, IIT BHU, Varanasi and Dr. Samit Ray Chaudhuri, Asst. Professor, Department of Civil Engineering, IIT Kanpur. (First visit on 02-02-2013 & Second Visit on 29-06-2013)
11. Coordinator of Annual Athletic Meets from 2011-2017
12. Dy. Coordinator Sac Activities (Photography Club-2008-09)
13. Faculty Co-Ordinator, Community Development Cell (CDC) for session 2008 -12.
14. Faculty Co-Ordinator, Gnosiomania for session 2008 -09
15. Faculty In-Charge, Civil Maintenance from 2012-2021.
16. Departmental Faculty Coordinator (Purchase) at Institute Level for 2016-17
17. External Member of DDSC for 2015-17 and DMPC for 2011-14 of Biotechnology Department
18. External Member of DDSC for 2015-16, DMPC for 2011-12 & DUGC for 2012-13 of CED.
19. External member of DPGC of Humanities & Social Science Department for 2011-12
20. A member of the Press & Publicity committee constituted for 11 convocation to be held on 28-03-2015 and member of other convocations.
21. Member of Roving Committee constituted for monitoring of compliance, security, maintenance and development work 2013-14 (Chairman- Prof. Rakesh Narain-MED).
22. Member of Scrutiny Committee constituted by director for the selection of Engineers in the Institute Works Department (IWD) section 2013-14.
23. Member of core committee for finalization of contract document for selection/empanelment of an architect firm and drafted the final document for Expression of Interest (EOI), 2012-13.
24. Member of TEQIP –I & TEQIP –II core team for since 2009 for academic data/information (MIS)

Administrative Positions hold at department level: 32

1. Coordinator PG Programme (EMD), August 2021- Till date
2. Coordinator NBA, August 2021- Till date
3. A member of Departmental Faculty Advisory Committee (DFAC) from October 2018
4. Member of departmental DDSC committee for session 2016-18.
5. Member of departmental DMSC committee for session 2017-18.
6. Member of departmental DDPC committee for session 2017-18.
7. President, Applied Mechanics Society for 2019-21.
8. Vice President, Applied Mechanics Society for 2015-18.
9. O/C Structural Analysis Laboratory since July 01, 2017
10. O/C Departmental Library, Conference & Seminar Rooms since July 01, 2017
11. Member Departmental Purchase Committee since July 01, 2017
12. A member of Departmental Board of Academics (BoAc) for session 2015-16.
13. Coordinator (Training & Placement) for session 2015-16
14. A member of DDPC of the department for session 2015-16.
15. A member of Departmental Purchase Committee for session 2015-16.
16. O/C Strength of materials Laboratory for 2015-17.
17. O/C Departmental Workshop for 2015-17.
18. Convener, DDPC of the department for session 2013-15
19. A member of DMPC committee for session 2013-15
20. O/C/ Civil & Electrical Maintenance for 2013-14 & 2014-15.
21. Convener, DPGC of the department for 2011-13
22. O/C Engineering Mechanics Laboratory for 2013-2015.
23. O/C Fluid Mechanics & Hydraulics Laboratory for 2012-13.
24. O/C Compressible Fluid Laboratory for 2012-13.
25. O/C Time Table of the department for 2010 -12
26. O/C Academic- Affairs for 2010 -12.
27. O/C Structure Laboratory for 2008 -13.
28. O/C Departmental Workshop for session 2008 -12.
29. O/C P.G. Programmes for 2009 -11
30. Departmental representative of TEQIP- I core team for session 2009 -12 for academic data/information
31. Co-ordinator M.Tech. (Applied Mechanics) Programme for 2009 -10
32. Convener P.G. admission for Session 2010-12.