


Department of Applied Mechanics
Motilal Nehru National Institute of Technology Allahabad

Curriculum Vitae

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|----|---|--|---|
| 1. | Name | Dr. Ramesh Pandey |  |
| 2. | Date of Birth | 01-07-1970 | |
| 3. | Correspondence Address | Department of Applied Mechanics, M.N.N.I.T. Allahabad (U.P.) – 211004 | |
| 4. | Permanent Address | S/O Shri T. R. Pandey
2A/3B Shivkuti Mahadev
Allahabad (U.P.) – 211004 | |
| 5. | Contact Information | | |
| | E-Mail | ramesh@mnnit.ac.in | |
| | Mobile No. | +91-9415351358 | |
| 6. | Designation | Assistant Professor
(A.G.P. = Rs.8000/- since September, 2012) | |
| 7. | Teaching & Research Experience | 13 years & 10 years respectively | |
| 8. | Qualification | Ph.D. | |
| 9. | Current Research Areas | Solid Mechanics & Smart
Composite Structures, Structural
Engineering. | |

10. Academic Qualification

Degree	Division	University / Institute
B.E. (Civil)	I st	MNREC Allahabad.
M.E. (Structure)	I st (Honours)	MNREC Allahabad
Ph.D. (Composite Structure)	-	MNNIT Allahabad.

11. Details of Employment

Name of Institute	Post Held
MNNIT, Allahabad (U.P.)	Assistant Professor (A.G.P. = 8000/-), since September, 2012 till now.
MNNIT, Allahabad (U.P.)	Assistant Professor (A.G.P. = 7000/-), since May 2009 to September, 2012.
MNNIT, Allahabad (U.P.)	Assistant Professor (A.G.P. = 6000/-), May 2006 to May 2009.
NIT Hamirpur (H.P.)	Assistant Professor (A.G.P. = 6000/-), since January 2006 to May 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).

12. Number of M.Tech. Thesis Guided (July 2006 to June 2012) 21

13. Number of M.Tech. Thesis in Progress 05

14. Number of Conferences/Workshops Organized 03

List of Publications

a) International Journals: 10

1. 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.
2. 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.
3. 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
4. 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.
5. Ramesh Pandey, A.K.Upadhyay and K.K.Shukla (2010), "Hygro-Thermo- Elastic Postbuckling Response of Laminated Composite Plates", *J. Aerospace Engineering, ASCE*, 23(1), 1-13.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.

(b) International Conferences/ Symposiums: 15

1. 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
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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

8. Sumit Sharma, Ramesh Pandey, A.K.Upadhyay and K.K.Shukla (2009), "Postbuckling Response of Hybrid Plates", ICCMS09, IIT Mumbai, (01-05 December, 2009, pp.-81-82).
9. 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)
10. 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).
11. 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)
12. 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)
13. 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)
14. 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)
15. K. K. Shukla, Manoj S. Patil, Ramesh Pandey and Anuj Jain (2004) " Thermal Buckling of Functionally Graded Rectangular Plates", 17th Engineering Mechanics Conf., ASCE , USA, 2004.

(c) National Conferences /Symposiums: 02

1. 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.
2. G. Bhardwaj, R.Pandey, K.K. Shukla, "Flexural Response of CNT reinforced multi-scale composite cross ply laminated plates " Accepted in the 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.

(d) Seminar/Workshop Organized: 04

- 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)

(e) Seminar/Workshop Attended: 08

- 1) 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)
- 2) One day Workshop on “Curriculum Development”, on 25 March, 2012, Department of Civil Engineering, MNNIT, Allahabad (Prof. R. P. Tewari)
- 3) 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)
- 4) 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)

- 5) 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)
- 6) 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)
- 7) 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.
- 8) 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).
- 9) Two days “Induction Training Programme on Teaching Methods”, 28-29 January, 2006, at NIT Hamirpur.(Co-ordinators: Prof. Rakesh Sehgal & Prof. R.L. Sharma)

(f) M.Tech Theses : 21 (02 in Progress)

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 Singh, “Post-Buckling Analysis of Laminated Composite Plates with Feedback Control”, 2010. (Co-Guide: Prof. K.K Shukla)

8. Mr. Sunkul 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 Piezoelectric 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)

(g) Books/Chapter(s) of Books:

- i) A book entitled “Strength of Materials”, co-authored by Dr. K. K. Shukla and Dr. Anuj Jain published by Narosa Publications in 2013 available online.
- ii) Chapter Number 474 of Encyclopedia of Thermal Stresses (ETS) entitled “Buckling and Post-Buckling of Composite Plates Under Thermal Loads”, co-authored by Dr. K. K. Shukla and published by Springer Science & Business Media Dordrecht in 2013 available online

(h) Administrative Positions at Institute Level-

- i) Faculty In-Charge (Civil) of Civil Works & Maintenance (CWM) division of Institute Works Department (IWD) since Aug, 2013.
- ii) Member of Roving Committee constituted for monitoring of compliance, security, maintenance and development work since Aug, 2013 (Chairman- Prof. Rakesh Narain- MED).
- iii) Member of Scrutiny Committee constituted by director for the selection of Engineers in the Institute Works Department (IWD) section.
- iv) Faculty In-Charge Construction of Institute Committee for Construction and Maintenance (ICCM), July, 2012- Aug, 2013.
- v) 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)
- vi) Member of Durga Pooja Committee, Staff Colony for the session 2013-14.
- vii) Convener, of Institute Committee for Construction and Maintenance (ICCM) since July, 2012.
- viii) Coordinator of Athletic Events of SAC (Athletics -2012-13)
- ix) 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)
- x) Secretary, Alumni Association for the period 2012-13
- xi) Joint Secretary-I, Alumni Association for the period 2011-12.
- xii) Secretary of MNNIT staff club for the period 2013-14.
- xiii) Organizing committee member of Virasat-2013(18-23 April, 2013)
- xiv) Executive member of MNNIT staff club for the period 2012-13.
- xv) External member of DMPC of Bio-Technology Department for session 2013-14
- xvi) External member of DUGC of Civil Engg. Department for session 2012-13
- xvii) External member of DPGC of Civil Engg. Department for session 2011-12
- xviii) External member of DPGC of Humanities & Social Science Department for session 2011-12
- xix) External member of DPGC of Bio-Technology Department for session 2011-12
- xx) Faculty Coordinator of 45th Annual Athletic Meet-2011, MNNIT Allahabad
- xxi) Dy. Coordinator Sac Activities (Field Events-2011-12)
- xxii) Dy. Coordinator Sac Activities (Photography Club-2008-09)

- xxiii) Faculty Co-ordinator, Community Development Cell (CDC) for session 2008 -12
- xxiv) Faculty Co-ordinator, Gnosiomania for session 2008 -09
- xxv) Member of TEQIP –I & TEQIP –II core team for since 2009 for academic data/information (MIS)
- xxvi) Examiner of Ph.D. oral board of Mr. S. H. Abbas, CED
- xxvii) Examiner of Ph.D. oral board of Mr. R. K Srivastava, CED
- xxviii) Examiner of Ph.D. oral board of Mr. Jeeoot Singh, AMD
- xxix) Examiner of Ph.D. oral board of Mr. Ashutosh Kumar Upadhyat, AMD
- xxx) Examiner of UPTU (IERT) Engineering Mechanics Practical since 2008-2011.

(i) Administrative Positions at department level-

- i) Convener, DDPC of the department for session 2013-15
- ii) Coordinator of Departmental Civil & Electrical Maintenance Works
- iii) Convener, DPGC of the department for session 2011-13
- iv) O/C Engineering Mechanics Laboratory since January, 2013
- v) O/C Fluid Mechanics & Hydraulics Laboratory for session 2012-13.
- vi) O/C Compressible Fluid Laboratory for session 2012-13.
- vii) O/C Time_Table of the department for session 2010 -12
- viii) O/C Academic- Affairs of the department for session 2010 -12
- ix) O/C Structure Laboratory for session 2008 -13
- x) O/C Departmental Workshop for session 2008 -12
- xi) O/C P.G. Programmes for session 2009 -11
- xii) Departmental representative of TEQIP- I core team for session 2009 -12 for academic data/information
- xiii) Co-ordinator M.Tech. (Applied Mechanics) Programme for session 2009 -10
- xiv) Convener P.G. admission for Session 2010-12