



Profile

Name	Dr. Ajay Kumar Garg
Designation	Professor, Applied Mechanics
Area of Interest	Finite element method, Laminated Composites, Free Vibration, Reinforced Cement Concrete
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Mobile No	95895-40817
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Qualification

- PhD (Civil Engineering) – SGSITS Indore, Indore, India – August-2006
- M.Tech (Structural Engineering) – SGSITS Indore, Indore, India – May-1996
- B.E. (Civil Engineering) - Govt. Engineering College Jabalpur, Jabalpur, India – Jan-1992
- Diploma (Civil Engineering) – Govt. Polytechnic Jhabua, Jhabua, India – May-1988

Professional Work Experience:

- Professor Applied Mechanics, Govt. Engineering College, Raipur- 31.12.2021 to Till date
- Associate Professor, Applied Mechanics, Govt. Engineering College, Bilaspur- 24.06.2005 to 31.07.2016

- Lecturer (Assistant Professor), Applied Mechanics, Govt. Engineering College, Bilaspur- 24.06.1996 to 23.06.2005

Administrative Work Experience:

- Joint Director, Directorate of Technical Education, Nava Raipur- 01.08.2016 to 31.12.2021
- Nodal Officer, IIIT Naya Raipur- 23.11.2016 to Till date
- Deputy Director, Admission and Fee Regulatory committee, Chhattisgarh- 11.10.2017 to Till date

Course Handled

- Applied Mechanics
- Strength of Material
- Structural Analysis
- Reinforced Cement Concrete

Research and Consultancy

- Providing Consultancy in Structural Design to Government and Private Sector

Ph.D. Guidance:

- Mrs. Shubhlakshmi Tiwari, '*Comparative Study of Fly Ash Concrete and Ordinary Concrete*', Dr. C. V. Raman University, Kota, Bilaspur, CV/17111/1424, Awarded on 31.05.2018.
- Mr. Sidhhha Kumar Burman, '*Optimization of Water Resources in Chhattisgarh Using 3R- Technology*', Dr. C. V. Raman University, Kota, Bilaspur, CV/14115/2079, Awarded on 25.02.2022.
- Mr. Parimal Shukla, '*Effect of Different Admixtures on Structural Performance of Fly-Ash Concrete*', Dr. C. V. Raman University, Kota, Bilaspur, CV/17111/1467, On Going.
- Mr. Vinod Kumar Verma, '*Optimization of Welding Process and its Properties of Friction Stir Spot Welding of Aluminum Alloys*', Chhattisgarh Swami Vivekanand Technical University, Bhilai, On Going.

Conference/workshop/FDP

Paper publication in Journals:

- Burman S.K., Gupta D.K. and Garg A. K. (2021) Questionnaire Survey based Model Analysis on 3R Technique Used Water Resource Management. *Design Engineering*, 8: 15903-15911.
- Burman S.K., Gupta D.K. and Garg A. K. (2019) Sediment Trap Efficiency of Kodar Reservoirs: -An Experimental Study. *International Journal of Advanced in Management, Technology and Engineering Sciences*, 9(1): 3903-3909.
- Burman S.K., Gupta D.K. and Garg A. K. (2018) Statistical Tool Used in Water Resource Management. *International Journal of Advanced in Management, Technology and Engineering Sciences*, 8(7): 2202-2210.
- Burman S.K., Gupta D.K. and Garg A. K. (2017) Review on: Water Resources Management an Art. *International Journal of Advanced in Management, Technology and Engineering Sciences*, 7(12): 376-385.
- Tiwari S.L. and Garg A.K. (2016) Flow Properties Study of Mortars Using Fly Ash and Lime. *Journal of Scientific Research in Allied Science*, 2(6): 294-298.
- Tiwari S.L. and Garg A.K. (2015) Fly Ash's Fineness Effect on Compressive Strength of Concrete. *Integrated Journal of Engineering Research and Technology*, 2(3): 258-267.
- Tiwari S.L. and Garg A.K. (2015) Effect of Fly Ash on Freshly Mixed and Hardened Concrete. *Integrated Journal of Engineering Research and Technology*, 2(6): 348-351.
- Garg A.K., Khare R.K. and Kant T. (2008) Free Vibration of Laminated Composite and Sandwich Folded Plates Using a Higher-order Shear Deformable Finite Element Model. *CSVTU Research Journal*, 1(2): 22-33.
- Garg A.K., Khare R.K. and Kant T. (2006) Higher-order Closed-form Solutions for Free Vibration of Limited Composite and Sandwich Shell. *Journal of Sandwich Structures and Materials*, 8(2): 95-124.

- 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.
- Khare R.K., Rode V., Garg A.K. and John S.P. (2005) Higher-order Closed-form Solutions for Thick Laminated Sandwich Shells. *Journal of Sandwich Structures and Materials*, **7**(4): 335-358.
- 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.
- Khare R.K., Kant T and Garg A.K. (2004) Free Vibration of Composite and Sandwich Laminates with a Higher-order Facet Shell Element. *Journal of Composite Structures*, **65**: 405-418.
- 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. *Journal of Composite Structures*, **59**: 313-340.

Papers published in Conferences

- Tiwari S.L., Shukla P. and Garg A.K. (2013) Experimental Studies on Mortars Containing Fly Ash and Rice Husk Ash. *National Conference 'VIMARSH2013'*, Chouksey Engineering College, Bilaspur, India, 12-13 September 2013, 64.
- Garg A.K. and Khare R.K. (2008) Free Vibration of Fibre-reinforced Skew Laminates Using a Higher-order Shear Deformable Finite Element Model. *National Conference on Technological Advances in Civil Engineering*, Bhilai Institute of Technology, Durg, India, 7-8 November 2008, 14.
- Garg A.K., Khare R.K. and Kant T. (2007) Free Vibration of Laminated Folded Plates using a Higher-order Shear Deformable Finite Element Model. *National Conference on Recent Advances and Trends in Civil Engineering*, Bhilai Institute of Technology, Durg, India, 16-17 March 2007, 01-08.

Program attended

- “Intellectual Property Rights and Council’s Role in IPR Addressal” on 05.08.2022 at Govt. Engineering College, Raipur (C.G.) organized by Govt. Engineering College, Raipur (C.G.).
- “Remote Sensing, GIS, GPS Technologies- Present and Future Scenario” from 03.01.2022 to 07.01.2022 at Ujjain Engineering College, Ujjain (M.P.) organized by All India Council for Technical Education, New Delhi.
- “Geotechnical Investigations in Civil Engineering” from 26.04.2021 to 30.04.2021 at Vishwavidyaya Engineering College, Lakhanpur- Ambikapur (C.G.) organized by Chhattisgarh Swami Vivekanand Technical University, Bilai (C.G.).
- “Instructional Material Development” from 13.02.2012 to 17.02.2012 at Govt. Engineering College, Bilaspur (C.G.) organized by National Institute of Technical Teachers Training and Research, Bhopal (M.P.)
- “Work Ethics and Motivational Climate, Attitude Development and Time management” from 08.11.2010 to 12.11.2010 at Govt. Engineering College, Bilaspur (C.G.) organized by National Institute of Technical Teachers Training and Research, Bhopal (M.P.)
- “Core Teaching Skills” from 20.07.2009 to 24.07.2009 at Govt. Engineering College, Bilaspur (C.G.) organized by National Institute of Technical Teachers Training and Research, Bhopal (M.P.)
- “Environmental Management: Challenges in 21st Century” from 20.12.2004 to 31.12.2004 at Govt. Engineering College, Ujjain (M.P.).
- “Human Values in Technical Education” from 29.11.2004 to 05.12.2004 at Govt. Engineering College, Bilaspur (C.G.) organized by Abhyudaya Sansthan , Achhoti, Durg (C.G.)
- “Earthquake Resistant Design and Retrofitting of Reinforced Concrete Buildings” from 07.07.2003 to 18.07.2003 at Indian Institute of Technology, Roorkee.
- “FEM-and its Advanced Applications” from 07.01.2002 to 12.01.2002 at Indian Institute of Technology, Kanpur (U.P.).
- “Microprocessor Controlled Environmental Instrumentation” from 07.06.1999 to 19.06.1999 at Govt. Engineering College, Ujjain (M.P.).

- “Environmental Engineering Instrumentation” from 20.07.1998 to 01.08.1998 at Govt. Engineering College, Ujjain (M.P.).
- “Stochastic Hydrological Modelling: A Computer Oriented Approach” from 01.12.1997 to 13.12.1997 at Shri G.S. Institute of Technology and Science, Indore (M.P.).

Membership of Learned Societies and/or Professional Bodies:

- ISTE (LM-23643)
- IBC (ML-9402)
- IGS (Indore Chapter) LM-260

Additional Responsibilities

- Nodal Officer, IIIT Naya Raipur
- Deputy Director, Admission and Fee Regulatory committee, Chhattisgarh
- Counselling work for Admissions in all Technical Programs at State Level
- Head of Department, Department of Civil Engineering
- Member. Academic Council, Chhattisgarh Swami Vivekanand Technical University, Bilai
- In-charge Civil maintenance committee at GEC Raipur.
- In-Charge Establishment Committee at GEC Raipur.
- In-Charge Innovation and Start Up Cell Committee at GEC Raipur.
- In-Charge Public relation at GEC Raipur.
- In-Charge Civil Maintenance Committee at GEC Raipur.
- In-Charge Internal Quality Assurance Cell at GEC Raipur.
- In-Charge Student Counsellor Committee at GEC Raipur.
- Member Purchase Committee at GEC Raipur.
- Member, Direct recruitment, Promotion, Career Advancement, Time Scale pay Committee at GEC Raipur.

