

CURRICULUM VITAE'



Prof. (Dr.) ASHOK K. JAIN

Professor of Civil Engineering

Indian Institute of Technology, Roorkee

Group – http://groups.yahoo.com/group/structure_iitr

ashokjain_iitr@yahoo.co.in

POSITIONS HELD

- + Professor of Civil Engineering, Indian Institute of Technology, Roorkee (Formerly, University of Roorkee) since April 1991
- + Director, Malaviya National Institute of Technology, a deemed university under MHRD, Government of India, New Delhi, May 2003-March 2005
- + Reader in Civil Engineering, University of Roorkee, March 1980-April 1991
- + Post Doctoral Research Fellow, University of Michigan, Aug. 1978-Sept.1979
- + Research Assistant, University of Michigan, Sept. 1975- July 1978
- + Lecturer in Earthquake Engineering, University of Roorkee, Aug. 1974- Aug. 1975, and Sept.1979 - March 1980.

EDUCATIONAL QUALIFICATIONS

- + Doctor of Philosophy (Ph.D.) from the University of Michigan, Ann Arbor, USA in 1978
- + M.E. Structural Engineering with I Class First and Honours from the University of Roorkee in 1974
- + B.E. Civil Engineering with I Class First and Honours from the University of Roorkee in 1972
- + B.Sc. with I Class First and 24th in the University from the Meerut University in 1968

SPECIALIZATION

Structural Engineering, Reinforced Concrete, Earthquake Engineering, Multistorey Buildings, Steel and RC Bridges & Viaducts, Tall towers, Rehabilitation and retrofitting of structures.

MEMBERSHIP

- ✚ Fellow, Institution of Engineers (India), Calcutta
- ✚ Fellow, Indian Association of Structural Engineers, New Delhi
- ✚ Life Member, Indian Society of Earthquake Technology (ISET), Roorkee
- ✚ Life Member, Indian Concrete Institute (ICI), Chennai
- ✚ Life Member, Indian Roads Congress, New Delhi
- ✚ Honorary Fellow, Indian Institute of Quality Management, Jaipur
- ✚ Life Member, Roorkee University Alumni Association, Roorkee

SHORT OVERSEAS ASSIGNMENTS

- ✚ Visiting Professor, McGill University, Montreal, May-June, 1995
- ✚ Visiting Scientist, McGill University, Montreal, Aug.-Oct. 1991
- ✚ Visiting Research Fellow, University of Illinois, Chicago, USA, July - August, 1987
- ✚ Visiting Professor, Nepal Engineering College, Kathmandu, Nepal, Nov-Dec, 1996

PUBLICATIONS

Books

- ✚ Jain, A.K., *Reinforced Concrete: Limit State Design*, Nem Chand & Bros., Roorkee, Sixth Edition, 2002, p. 876.
- ✚ Jain, A.K., *Strength of Materials and Structural Analysis*, Nem Chand & Bros., Roorkee, 2nd ed, 2008, p. 660.
- ✚ Jain, A.K., *Advanced Structural Analysis with Computer Applications*, Nem Chand & Bros., Roorkee, 2nd ed, 2006, p. 627
- ✚ Jain, A.K. and M.N.Keshva Rao, *Fortran Programming*, Nem Chand & Bros., Roorkee, Second Edition, 1990, p. 312.

Research Papers

International and National Journals :	45
International and National Conferences :	50
Research Reports :	20
Total publications =	115

TEACHING EXPERIENCE since 1974

Post graduate level Dynamics of Structures, Numerical Analysis, Advanced Structural Analysis, Design of Concrete Structures, Multistorey Buildings.

Undergraduate level Structural Analysis, Strength of Materials, Reinforced Concrete, Computer programming, Numerical Analysis, Computer Graphics.

RESEARCH EXPERIENCE since 1974

Carried out extensive work in laboratory and on computers.

SUPERVISOR OF Ph.D. THESIS: 4 awarded, 2 guided singly

SUPERVISOR OF M.E. THESIS: 32 awarded, 27 guided singly

CONSULTANCY EXPERIENCE since 1979

Worked on projects sponsored by the DDA New Delhi, CPWD New Delhi, PWD Delhi, Jai Prakash Industries, Noida,; Indian Air Force, U.P. P.W.D.; Uttranchal P.W.D.; U.P. Jal Nigam; Uttranchal Peyjal Nigam; BHEL Hardwar; Hindustan Steelworks Construction Ltd. Bagalore, Triveni Structurals Ltd., Allahabad; Indian Oil Corp. Ltd., M.E.S Delhi; Gas Authority of India Ltd., Tehri Hydro Power Dev. Corp. Rishikesh, and many other private agencies.

Important Consultancy Projects – During last 5 years*Design of Various Structures*

1. Design of Multistorey buildings for CPWD Delhi
2. Design of Blast Proof Hangars for Indian Air Force
3. Design of Syphon Aqueduct over River Ghaggar, Haryana
4. Design of Steel Bridges – 18 m to 70 m for P.W.D. Dehradun, Uttrakhand
5. Design of Heavy Foundations for CNC Machines for BHEL, Hardwar
6. Design of Multilevel Car Parking at Mussoorie

Proof Checking

7. Proof Checking of Buildings for Commonwealth Games Village 2010
8. Proof Checking of Training Centre Halls and Swimming Pools for Commonwealth Games 2010

9. Proof Checking of Yamuna Expressway Intersections – Noida to Agra – JP Associates
10. Proof Checking of Himalayan Expressway Viaduct – Zirakpur to Parwanoo – JP Associates
11. Proof Checking of 300 m TV Tower at Amritsar

AWARDS

- ✚ 2nd best paper award of Indian Society of Earthquake Technology for 1980 on the paper entitled, *Static and Dynamic Buckling of Steel Members* (Vol 17, No.1, March 1980, p.11-18).
- ✚ University Grants Commission *Career Award for Research* 1987-90.
- ✚ Certificate of Merit award of the Institution of Engineers for 1987 on the paper entitled, *Housing in Regions Prone to Cyclones*, Vol 68, Pt CI 3, Nov 1987, p 143- 149.
- ✚ Indian Service of Engineers Research Award, University of Roorkee, for 1996 on the paper entitled, *Effective Strength Eccentricity Concept for Inelastic Analysis of Asymmetric Structures*, Journal of Earthquake Engineering and Structural Dynamics, Vol. 24, No. 1, January, 1995, p-69-84.
- ✚ *Rackham Research Award*, University of Michigan, 1976-77.

As a student – Was awarded Chancellor's bronze medal, four gold, and five silver medals by the University of Roorkee between 1969 and 1974; Awarded two gold medals by K.L.D.A.V. Degree College, Roorkee, between 1967 and 1968 for standing first in B.Sc. parts 1 and 2

INVITED LECTURES – since 2000

- ✚ Structural Engineers Association, Siliguri, Feb 2008
- ✚ Platinum Jubilee Lecture – Engineering Science – Indian Science Congress Association, 93rd Congress, Hyderabad, Jan. 2006
- ✚ I.I.T Kharagpur for a Plenary Lecture in CONMAT 2003, Jan.2003
- ✚ Consulting Engineers Association of India, New Delhi, Jan, 2003
- ✚ Institution of Engineers (India), Guwahati, in Dec. 2000

COMMITTEES OF THE BUREAU OF INDIAN STANDARDS, NEW DELHI

- ✚ Member, Committee CED 2:2 Working Group on IS:456 and IS:3370 codes on Reinforced Concrete Structures, since 1993
- ✚ Member, Committee CED 39 on IS:1893 and IS:13920 codes on Earthquake Engineering, since 1995

CONTINUING EDUCATION COURSES

- ✚ Detailing of Reinforced Concrete Structures, 1986-89-91-93, 2001
- ✚ Delivered lectures in many courses on Earthquake engineering Sponsored by Ministry of Home Affairs, Govt. of India, at New Delhi, and Roorkee since 2005
- ✚ Delivered lectures in many courses on different aspects of structural engineering organized by the Center for Continuing Education, Roorkee since 1980.

SPECIAL 2 days COURSES

- ✚ Analysis and Design of Earthquake Resistant Buildings in R.C. – Organized for GSDMA, at Ahmedabad from Nov. 3 to 7, 2003
- ✚ Latest revisions in IS: 456-2000 and Earthquake Resistant Design – Organized for Indian Oil Corporation at Panipat in Jan. 2003
- ✚ Latest revisions in IS: 456-2000 and Earthquake Resistant Design – Organized for Indian Oil Corporation at Barauni, Bihar in August 2002
- ✚ Advances in Structural Dynamics – Organized for L&T Engineers at Vadodara in Feb. 2002
- ✚ Latest revisions in IS: 456-2000 and Earthquake Resistant Design – Organized for Indian Oil Corporation at Mathura in July 2001
- ✚ Latest revisions in IS: 456-2000 – Organized for M.E.S. Engineers at Dehradun in Dec. 2001