

CURRICULUM VITAE



- 1. NAME** **Dr. RAVI KUMAR SHARMA**
- 2. DATE OF BIRTH** **June 20, 1959**
- 3. DESIGNATION** **Associate Professor and Head,
Department of Civil Engineering, C.T.A.E.
M.P.U.A.T, Udaipur**
- 4. EDUCATIONAL QUALIFICATIONS**

Examination passed	Board/ University	Subjects/ Specialization	Year of passing	% of marks	Division
Secondary	Board of Secondary School Education, Rajasthan	Phy./Chem/. Maths	1974	79.33	I
Higher Secondary	Board of Secondary School Education, Rajasthan	Phy./Chem/. Maths	1975	82.25	I
B.E.	Malviya Regional Engg. College (Now, MNIT), Jaipur (University of Rajasthan)	Civil	1980	71.49	HONS
M.E.	University of Jodhpur (Now, J.N.V.University), Jodhpur	Structural Engineering	1990	74.47	I
Ph.D.	I.I.T.DELHI	Structural Engineering	2003	AWARDED	

5. EMPLOYMENT RECORD

S.N.	Employer	Post held	Period of Employment		Nature of Work
			From	To	
1	M.P.U.A.T, Udaipur	Associate Professor	25.09.07	Continue	Teaching
2	Jai Narain Vyas University, Jodhpur	Associate Professor	15.7.03	24.09.07	Teaching
3	Jai Narain Vyas University, Jodhpur	Assistant Professor (Senior Scale)	15.7.98	14.07.03	Teaching
4	Jai Narain Vyas University, Jodhpur	Assistant Professor	15.7.92	14.7.98	Teaching
5	PWD Rajasthan	Junior Engineer (Degree Holder)	15.5.82	14.7.92	Supervision of construction works

6. RESEARCH EXPERIENCE

Ph.D : Guiding 3 research scholars:

- (i) Creep and Shrinkage Behaviour of Composite Tall Buildings
- (ii) “Seismic Performance of Indian Standard Code Designed R. C. Buildings
- (iii) Modeling and Analysis for Predicting Short-Term and Long-Term Deflections of Two-way RC Slabs

M.E. : Guided 9 Seminars and 10 Dissertations

7. SUBJECTS TAUGHT

U/G Level

P/G Level

Analysis of structures

Advanced Analysis of structures

Concrete structures

Advanced Concrete structures

Highway Engineering

Estimation and specifications

8. LIST OF PUBLICATIONS

International Peer Reviewed Journals

- (i) Maru, S., Asfaw, M., **Sharma, R.K.** and Nagpal, A.K.(2003a). "Effect of Creep and Shrinkage on R.C. Frames with High Beam Stiffness" *J. of Struct. Engineering, ASCE*, **129(4)**, 536-543
- (ii) Maru, S., **Sharma, R.K.** and Nagpal, A.K.(2003b). "Effect of Creep and Shrinkage on R.C. Frame & Shear Wall Systems with High Beam Stiffness" *The Structural Design of Tall and special Buildings*, John & Wiley & Sons. Vol. 12(2), 93-108
- (iii) **Sharma, R.K.** Maru, S. and Nagpal, A.K.(2003). "Effect of Creep and Shrinkage in a Class of Composite Frame & Shear Wall Systems" *Steel & Composite Structures*, Techno-Press. Vol. 3 No5(2003), 333-348
- (iv) **Sharma, R.K.** Maru, S. and Nagpal, A.K.(2004). "Simplified Procedure for Creep and Shrinkage in Reinforced Concrete Frames" *J. of Struct. Engineering, ASCE*, **130(10)**, 1545-1552
- (v) **Sharma, R.K.** and Nagpal, A.K.(2008). "A Procedure for Creep and Shrinkage Analysis of Frames with Low Beam Stiffness" *The Structural Design of Tall and special Buildings*, 17(4), 739-755.
- (vi) **Sharma, R.K.**, Maru, S. and Nagpal, A.K.(2009). "Effect of Beam Stiffness-Column Reinforcement on Creep and Shrinkage Behaviour of R.C. Frames". "*The Structural Design of Tall and special Building*", 18(3), 327-339.
- (vii) Chowdhary, P. and **Sharma, R.K.**, (2009) "Creep - Shrinkage Behaviour of Composite Systems Due to Varying Shear Wall Properties". "*Journal of Engineering and Applied Sciences*", 04(2), 38-45.
- (viii) **Sharma, R.K.**, Maru, S. and Nagpal, A.K.(2009). "Effect of Beam Stiffness-Column Reinforcement on Creep and Shrinkage Behaviour of R.C. Frames". "*The Structural Design of Tall and Special Building*", 18(3), 327-339.
- (ix) Deopare A.P., Gupta, T. and **Sharma, R.K.** (2010). "Effect of Sequence of Construction in a Tall Building: A Review", *International Journal of Earth Science & Engineering*, 03(02 SPL), 31-39, Cafet-Innova Technocal Society, India.

- (x) Gupta, T., and **Sharma, R.K.**, (2011), "Structural Analysis and Design of Buildings Using Neural Network: A Review", *International journal of Engineering and Management Sciences* Vol. 02(04), pp 216-220..
- (xi) Chowdhary, P. and **Sharma, R.K.**, (2011) "Evaluation of Creep and Shrinkage Effects in Composite Tall Buildings". *The Structural Design of Tall and Special Building's*, John & Wiley & Sons, USA, Vol. 20(7), pp871-880. **(Impact factor 0.505)**.

Seminars and Conferences

- (i) Sethia, M.R., Gupta, A.K. and **Sharma, R.K** (1995). "Solar Passive Roof for Energy Conservation in Green House", Proceedings of International Seminar on CEPT at Roorkee, pp 1382-1391.
- (ii) Sethia, M.R., **Sharma, R.K** and Mathur, B. (1996). "Natural Fibre Reinforced Slab for Sustainable Rural Development- An Experimental Study", Proceedings of International Conference on Habitat & Sustainable Development at New Delhi, pp 1-86 to 1-95.
- (iii) **Sharma, R.K.** And Solomon, S. K. (1999). "Approximate Analysis of High- Rise Building Frames", Proceedings of National Seminar on Multi-Storey of Growing Towns at Jodhpur, pp 452-461.
- (iv) **Sharma, R.K.** (1999). "Influence of Coarse Aggregate on Mechanical Properties in the High Performance Concrete", Proceedings of National Seminar on Recent Trends in Civil Engineering Materials at Kota, pp 120-129.
- (v) **Sharma, R.K.** and Chowdhary P. (2005). "Effects of Concrete Creep & Shrinkage in Tall Buildings", Proceedings of National Seminar on Futuristic Construction Materials & Techniques at Jodhpur
- (vi) Gupta A.K. and **Sharma, R.K.** (2005). "Environmental and Social Aspects of Rural Roads", Proceedings of National Workshop on Environment and Pollution Awareness at Jodhpur
- (vii) Chowdhary P., **Sharma, R.K** and Chowdhary G.R. (2005). "Fly ash : Problems and its Applications", Proceedings of National Workshop on Environment and Pollution Awareness at Jodhpur
- (viii) **Sharma, R.K** and Chowdhary P. (2006). "Effect of Beam Stiffness on Creep and Shrinkage Behaviour of Composite Tall Buildings", Proceedings of National Conference on High-Rise Buildings (ICMS_Roorkee) at New Delhi

- (ix) **Sharma, R.K** and Chowdhary P. (2005). "Review of Analytical Procedures for Creep and Shrinkage Behavior of Concrete Tall Buildings", Proceedings of First National Conference on Recent Developments in Structural Engineering at Manipal Institute of Technology, Manipal, pp 399-403
- (x) **Sharma, R.K** and Chowdhary P. (2005). "Application of Neural Network in Structural Engineering", Proceedings of National Seminar on Emerging Computational Techniques and Their Application at Jodhpur, pp 131-133
- (xi) **Sharma, R.K** and Chowdhary P. (2006). "Effect of Beam Stiffness on Creep and Shrinkage Behaviour of Composite Tall Buildings", Proceedings of National Conference on High-Rise Buildings (ICMS_Roorkee) at New Delhi
- (xii) **Sharma, R.K** and Chowdhary P. (2007) "Time Effects on Beam End Moments in a Composite Tall Building", Proceedings of National Conference on Recent Advances in Civil Engineering at *Bhubaneswar*
- (xiii) Chowdhary, P. and **Sharma, R.K.**, (2007). "Neural Network in Structural Engineering: A Review", Proceedings of National Seminar on Soft Computing Methodology at Ujjain (M.P.)
- (xiv) **Sharma, R.K.** and Gupta, T. (2007) "Control of Quality in Technical Education", Proceedings of National Seminar on Technical Education in Current Perspective at R.T.U, Kota, pp 85-88.
- (xv) **Sharma, R.K** and Choudhary P. (2007). "Creep and Shrinkage Behaviour of Composite Frame Shear Wall Systems under varying Beam Stiffness", Proceedings of National Conference on Recent Trends in Geotechnical and Structural Engineering (RTGSE) at Jaipur.
- (xvi) **Sharma, R.K.**, Gehlot, S.S. and Deora, C.P.. (2007). "Seismic Performance of RC Buildings : A Review", Proceedings of National Conference on Recent Trends in Geotechnical and Structural Engineering (RTGSE) at Jaipur.
- (xvii) Gupta, T.; Arora, R.P.; **Sharma, R. K.**; Singhvi, B. S. M. (2008); "Management Planning of Pichola Lake Environment", Proceedings of National Seminar on Integrated Water Management and Sustainable Water Pricing at R.T.U, Kota, pp 63-68.
- (xviii) Singhvi, B. S. M.; Shekhawat, R. S.; **Sharma, R. K.**; Gupta, T. (2008); "Physio-Chemical Study of Ground Water Quality in Gogunda Tehsil", Proceedings of National Seminar on Integrated Water Management and Sustainable Water Pricing at R.T.U, Kota, pp 251-256.
- (xix) Gupta, T. and **Sharma, R.K.** (2009) "Neural Network Modelling for Concrete Properties: A Review", Proceedings of National Seminar on Sustainable Concrete Infrastructure Development at Jaipur, pp 233-238.
- (xx) Deopare A.P., Gupta, T. and **Sharma, R.K** (2009). "Effect of Sequence of Construction in a Tall Building: A Review", Proceedings of International Conference on Advances in Concrete, Structural and Geotechnical Engineering (ASCGE-09) at BITS, Pilani.

- (xxi) Gehlot S.S., Deora C. P. and **Sharma, R.K** (2009). "Seismic Upgradation of Reinforced Concrete Buildings", Proceedings of International Conference on Advances in Concrete, Structural and Geotechnical Engineering (ASCGE-09) at BITS, Pilani.
- (xxii) **Sharma, R.K.** and Gupta, T. (2010) "Urban Lake Management", Proceedings of National Seminar on Conservation of Lakes and Water Resources: Management Studies at M.P.U.A.T. Udaipur, pp 7-14.

9. SIGNIFICANT CONTRIBUTIONS

Field Experience

Worked in PWD Rajasthan and supervised both, building and road works. Among building works, supervised a prestigious project of Sports Stadium at Alwar amounting Rs 90 lakhs in 1987.

Research Activities

- (i) Carried out high quality research work for PhD at I.I.T Delhi resulting in six publications in **International Peer Reviewed Journals** (Two in Structural Engineering Journal of *A.S.C.E.*, three in *The Structural Design of Tall and Special Building* and one in *Steel & Composite Structures*).
- (ii) Supervised a number of M.E. Seminars and Dissertations.
- (iii) Completed R& D Project "Study of Creep and Shrinkage Effects in Composite Tall Buildings" sanctioned by A.I.C.T.E. under Research Promotion Scheme (RPS) amounting Rs 5.50 lakhs
- (iv) Actively engaged in research activities. Supervising two research scholars in the field of Tall Buildings and Earthquake Engineering. Also, supervising M.E. students for seminars and dissertations.
- (v) Submitted two modernization projects to A.I.C.T.E. under *MODROB* Scheme. Modernization of Concrete Technology Lab. with N.D.T Equipments and Modernization of Computational Lab amounting Rs 16.50 lakhs and Rs 17.58 lakhs respectively

Institutional Activities

- (i) Worked as Member for different committees appointed by Honorable Vice-Chancellor, J.N.V.U. Jodhpur.
- (ii) Worked as Vice- President, Library Board of Faculty of Engineering.
- (iii) Worked as Time Table Incharge to prepare Time Tables for the classes
- (iv) Working as Laboratory Incharge and prepared Laboratory Manual for Roads Laboratory.
- (v) Worked as Project Officer to supervise Final B.E. Project Examination-07

Short-Term Courses

Attended

Attended 20 short-term courses to update the knowledge. Among these, 13 courses were conducted by various I.I.Ts. Significant number among these courses is related to Earthquake Engineering organized under National Programme on Earthquake Engineering Education (NPEEE).

Conducted

- (i) Conducted a "Training Programme for PWD Engineers" sponsored by Ministry of Rural Development from November 10 to 12, 2003.
- (ii) Conducted a short-term course "Non Destructive Testing of RCC Structures" sponsored by N.I.T.T.T.R. Chandigarh from March 28-30, 2005.
- (iii) Conducted a short-term course "Non Destructive Assessment of Structures" sponsored by ISTE New Delhi from March 15-20, 2004. Conducted a short-term course "Earthquake Risk Management for Rural and Urban Housing" sponsored by N.I.T.T.T.R. Chandigarh from 25 to 29 August, 2008.
- (iv) Organized All India Seminar on "Emerging and Sustainable Techniques in Civil Engineering" at Udaipur in collaboration of Institution of Engineers (India), Udaipur (October 18-19, 2010)

Technical Consultancy

- (i) Participated in number of consultancy projects received by Department of Civil Engineering, C.T.A.E, M.P.U.A.T, Udaipur.
- (ii) Participated in number of consultancy projects awarded to Department of Structural Engineering, Faculty of Engineering, J.N.V.University, Jodhpur.
- (iii) Also, provided individual consultancy for the design and checking of drawings of number of RCC structures.
- (iv) Worked as **Member, State Technical Agency**, to scrutinize and technically approve Road Projects under **PMGSY scheme** of Ministry of Rural Road Development, Govt. of India.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

1. Life Member of **MBM Engineering College Alumni Association**. Also, worked as **Treasurer** for 4 years for this association.
2. Life Member of **Institution of Engineers (India)**. Also, worked as **Member of Executive Committee** of this institution.
3. Life Member of Indian Society for Technical Education (**I.S.T.E.**).
4. Life Member of Indian Concrete Institute (**I.C.I.**)

ADMINISTRATIVE EXPERIENCE

Working as **Head**, Department of Civil Engineering, College of Technology & Engineering, M.P.U.A.T., Udaipur **since 08.10.07**. Discharged following duties:

- (i) **Syllabus:** Degree in Civil Engineering has recently started. Arranged meetings of various committees for the preparation of the syllabus for IIB.E., IIIB.E. and IVB.E. classes.
- (iii) Development of Computational Lab.
- (iv) Updated the remaining Labs as per approved syllabus
- (v) Prepared and submitted two modernization projects for Concrete Lab and Computational Lab to A.I.C.T.E. **under MODROB Scheme.**
- (vi) Updated the Concrete, Strength of Materials.
- (vii) Updated syllabus of B.Tech. (Civil Engineering) as per requirement. Introduced course "Disaster Management".
- (viii) Submitted proposal Centre for Advanced Research for Seismic Efficient Buildings for Agro-Industries & Agriculture Produce Storage Structure

PERMANENT ADDRESS:

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