



Dr. SUNIL KUMAR

Professor, Department of Civil Engineering
Harcourt Butler Technical University, Kanpur

Qualification :

- **Ph.D.**
- **M.Tech.,**
- **B.Sc. (Engg.)**

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***Curriculum Vitae**

BIO DATA

Dr. Sunil Kumar is Professor and Head of Department of Civil Engineering at Harcourt Butler Technical University, Kanpur, India. He teaches Structural Analysis, Design of Concrete Structures, Design of Steel Structures, Bridge Engineering etc. at the University.

TEACHING AREAS

- Structural Analysis,
- Design of Concrete Structures,
- Advanced RCC Design,
- Design of Steel Structures,
- Bridge Engineering

RESEARCH AREAS

- **Structural Engineering**
 1. Design Imposed Loads in Buildings
 2. Structural Fire Engineering
 3. Durability of Concrete in Chemical Environments
 4. Waste Utilisation

CONSULTING AREAS

RECENT PUBLICATIONS, ARTICLES, CASES

Curriculum-Vitae

1. Name : **Dr. Sunil Kumar**

2. ACADEMIC QUALIFICATIONS:

Degree	Institution & University	Year	%	Division
B. Sc. Engg (Civil Engg.)	Z.H. College of Engg. & Tech., A.M.U., Aligarh	1986	C.P.I. = 9.413 Eq. % = 82.99	I (Hons.)
M. Tech. (Civil Engg. - Structures)	Regional Engg. College, Kurukshetra Univ., Kurukshetra	1988	70.34	I (Distinction in dissertation)
Ph. D. (Civil Engg.)	H.B. Technological Institute, Kanpur Univ., Kanpur	1995		--

M. TECH. DISSERTATION: ***Performance of Concrete in Marine Environments***

Ph. D. THESIS: ***Structural Reliability under Random Loads and Environmental
Effects***

EXPERIENCE:

TEACHING EXPERIENCE

Duration	Organisation	Post Held
18.01.2007 to till date	H. B. T. U., Kanpur	Professor
07.12.1999 to 17.01.2007	H. B. T. I., Kanpur	Assistant Professor
20.06.1996 to 06.12.1999	B. I. E. T., Jhansi	Reader
21.04.1989 to 19.06.1996	H. B. T. I., Kanpur	Lecturer

RESEARCH EXPERIENCE

Duration	Organisation	Area of Research
22.04.1988 to 06.01.1989	Regional Engineering College, Kurukshetra	Worked as Research Scholar in the Project, <i>“Investigations of Cracking in Concrete/ Masonry Structures due to Attack of Chemicals in Sub-Soil Water in the State of Haryana and other Related Problems”</i>

3. Areas of Specialisation : **Structural Engineering**

4. Current Areas of Research :
1. Design Imposed Loads in Buildings
 2. Structural Fire Engineering
 3. Durability of Concrete in Chemical Environments
 4. Waste Utilisation

5. RESEARCH PUBLICATIONS

(i) *International Journal* = 12

(ii) *National Journal* = 06

(iii) *International Conference Proceedings* = 09

(iv) *National Conference Proceedings* = 15

Total Research Papers = **42**

7. REVIEWER OF JOURNALS

1. International Journal of Construction and Building Materials, Elsevier Science, U.K.
2. Journal of Hazardous Materials, USA
3. Indian Journal of Engineering & Material Sciences

8. SPONSORED RESEARCH PROJECTS - Completed

S.No	Sponsoring Organisation	Title of Project	Remark
1.	A.I.C.T.E. New Delhi	Probabilistic Design Loads in Buildings	<i>Selected A grade Excellent by AICTE</i>
2.	A.I.C.T.E. New Delhi	Protection and Rehabilitation of Concrete Structures through Surface Coatings	

9. CONFERENCE / SEMINARS ORGANIZED:

No. of Conferences / Seminars Organised = 04
No. of Conferences / Seminars / Workshops Attended = 15

10. Foreign Visit

Attended International Congress on “CREATING WITH CONCRETE” at **Univ. of Dundee, Dundee, Scotland, U.K.** during 6-10 Sept. 1999.

11. AWARDS

1. S.E.R.C. Visiting Fellowships 1995-96, Deptt. of Sc. & Tech., Govt. of India.
2. S.E.R.C. Visiting Fellowships 1997-98, Deptt. of Sc. & Tech., Govt. of India.

12. THESIS SUPERVISION

Ph.D. Thesis Supervision = 02
M.Tech. Thesis Supervision: = 15

13. Book Authored

1. **Editor**, Proceedings of the National Seminar on “Environmental Aspects of Engineering Practices” held at Jhansi during 17-18 April, 1998.
2. **Editor**, Proceedings of the National Seminar on “Advances in Civil Engineering: Perspectives of Developing Countries” held at Kanpur during 15-16 February, 2003.

14. ADMINISTRATIVE EXPERIENCE:

Dean, School of Engineering; Dean, Academic Affairs; Dean, Students Welfare, Nodal Officer, Dr. BRAECIT, Bijnor; Co-Ordinator, TEQIP II; I/C Procurement (Civil works) – TEQIP II; Head, Civil Engineering Department; Member Secretary, Building Works Committee; Officer Incharge, Maintenance; Asstt. Dean, Planning & Resource Generation; Asstt. Examination Supdt.; Warden, Hostels; Dean, Administration; President, Council of Students Activity; Officer Incharge Construction

15. LIST OF RESEARCH PUBLICATIONS

(A) PUBLISHED RESEARCH PAPERS IN INTERNATIONAL JOURNALS:

1. **Sunil Kumar and C.V.S. Kameswara Rao**, "Effect of Sulfates on the Setting Time of Cement and Strength of Concrete", *Cement and Concrete Research*, Pergamon Press, U.S.A., Vol. 24, No. 7, 1994, pp. 1237-1244.
2. **Sunil Kumar and C.V.S. Kameswara Rao**, "Sulfate Attack on Concrete in Simulated Cast-in-Situ and Precast Situations", *Cement and Concrete Research*, Pergamon Press, U.S.A., Vol. 25, No. 1, 1995, pp. 1-8.
3. **Sunil Kumar and C.V.S. Kameswara Rao**, "Strength Loss in Concrete due to Varying Sulfate Exposures", *Cement and Concrete Research*, Pergamon press, U.S.A., Vol. 25, No. 1, 1995, pp. 57-62.
4. **Sunil Kumar and C.V.S. Kameswara Rao**, " Fire Loads in Residential Buildings", *Building and Environment*, Pergamon Press, U.K., Vol. 30, No. 2, 1995, pp. 299-305.
5. **Sunil Kumar, C.V.S.K. Rao, John Bensted and Juliet Munn**, A Discussion on the paper "Effect of Sulfates on the Setting Time of Cement and Strength of Concrete", *Cement and Concrete Research*, Pergamon Press, U.S.A., Vol. 26, No. 1,1996, pp. 365-368.
6. **Sunil Kumar and C.V.S. Kameswara Rao**, "Fire Loads in Office Buildings", *Journal of Structural Engineering, A.S.C.E.*, Vol. 123, No. 3, 1997, pp. 365-368.
7. **Sunil Kumar**, "Influence of Water Quality on the Strength of Plain and Blended Cement Concretes in Marine Environments", *Cement and Concrete Research*, Pergamon Press, U.S.A, Vol. 30, 2000, pp. 345-350.
8. **Sunil Kumar**, "Flyash-Lime-Phosphogypsum Cementitious Binder: A New Trends in Bricks", *Materials and Structures, RILEM*, Vol. 33, 2000, pp. 59-64.
9. **Sunil Kumar**, "Live Loads in Office Buildings: Lifetime Maximum Load", *Building and Environment*, Pergamon Press, U.K., Vol. 37, 2002, pp. 91-99.
10. **Sunil Kumar**, "Live Loads in Office Buildings: Point-in-Time Load Intensity", *Building and Environment*, Pergamon Press, U.K., Vol. 37, 2002, pp. 79-89.
11. **Sunil Kumar**, "A Perspective Study on Flyash-Lime-Gypsum Bricks and Hollow Blocks for Low Cost Housing Development", *Construction and Building Materials*, Elsevier Sc., U.K., Dec. 2002.

12. **Sunil Kumar**, "Flyash-Lime-Phosphogypsum Hollow Blocks for Walls and Partitions", *Building and Environment*, Pergamon Press, U.K., Vol. 38, 2003, pp. 291-195.

(B) PUBLISHED RESEARCH PAPERS IN NATIONAL JOURNALS:

1. **Sunil Kumar**, "Performance of Concrete Exposed to Sulphate Attack," *Civil Engg. & Constrn. Review*, Feb. 1994, pp.20-25.
2. **Sunil Kumar and C.V.S. Kameswara Rao**, "Live Loads in Residential Buildings in Urban and Rural Areas", *The Indian Concrete Journal*, Vol. 68, No. 10, 1994, pp. 541-546.
3. **Sunil Kumar**, "Utilisation of FaL-G Bricks and Hollow Blocks in Buildings", *The Indian Concrete Journal*, Vol. 75, No.7, 2001, pp. 463-467.
4. **Sunil Kumar**, "Live Loads in Residential Buildings – Lifetime Maximum Load", *The Indian Concrete Journal*, Vol. 76, No.4, 2002, pp. 244-250.
5. **Sunil Kumar**, "Live Loads in Residential Buildings – The Result of a Survey", *The Indian Concrete Journal*, Vol. 76, No.3, 2002, pp.157-163.
6. **A.K. Sahu, Sunil Kumar and A.K. Sachan**, "Crushed Stone Dust as Fine Aggregate for Concrete", *The Indian Concrete Journal*, Vol. 77, 2003, No. 1, pp. 845 – 848.

16. **PROFESSIONAL EXPERIENCE:**

COMPLETED MORE THAN 1000 CONSULTANCY PROJECTS