

BIO DATA



Name : Dr. H. K. Mahiyar
Fathers Name : Late V.K.Mahiyar
Date of Birth : 01/07/1965
Email ID :hemantmahiyar01@gmail.com
Contact Details : 09425348331
Qualifications : BE (Civil) in June 1987
: ME (Structural Engineering) in
January 1991
Ph.D. (Geotech.) in January 2001

Academic Qualifications

Name of Exam Passed	Year of Passing	Board/University	Institute	Division
Higher Secondary	1982	MP Board of Secondary Education Bhopal MP	Nutan Uchchattar Madhymik Vidyalay Unit 1, Indore	First
Bachelor of Engineering	1987	Indore Vishwavidyalay, Indore	SGSITS, Indore	First
Master of Engineering	1991	Indore Vishwavidyalay, Indore	SGSITS, Indore	First
Ph. D.	2001	Indore Vishwavidyalay, Indore	SGSITS, Indore	-

Job Profile

Name of Post	Year of Joining	Institute	Basic Pay
Lecturer	1989	SGSITS, Indore	INR 700/-
Reader	1995	SGSITS, Indore	INR 3700/-
Professor	2003	SGSITS, Indore	INR – 77000/-

Present Status : Professor, CED, & Dean (R & D)
SGSITS, 23 Park Road, Indore

Achievements since date of joining :

R&D	No. of publications	Teaching awards	Books/monograph	Conf./seminars	Extra Curricular activities	Admin.
40 PG Thesis and 1 PhD	35	----	02	13	Organized several activities for IGS Indore	Prof. Incharge Engineering Cell, Lab In charge Geotech.Lab Member, Roster committee Member, Krammonnati committee Member, DPC

Research Papers:

(A) International Journals

- “Analysis of an Angle-Shaped Footing under Eccentric Loading” (2000) - International Journal of American Society of Civil Engineers (Geotechnical & Geoenvironment div) Vol. 126 No. 12 pp 1151.
- “Effectiveness of Angle Shaped Footings Resting on Soil under Eccentric Inclined Load” (2009) - International Journal of Theoretical and Applied Mechanics ISSN 0973-6085 Vol 4 no.1 pp. 95-105.
- “Application of Finite Element Technique to Analysis Angle Shaped Footing.”(2009) - International Journal of Applied Engineering Research ISSN 0973-4562 Vol 4 no.6 pp. 1071-1084.
- “Moment Tilt Characteristics of Angle Shaped Footing Under Eccentric Inclined Loading”(2009)- International Journal of Applied Engineering Research ISSN 0973-4562 Vol 4 no.6 pp. 1085-1092.
- “Response of Angle-Shaped Rectangular Shallow Footing Under Eccentric Inclined Loading” (2010) – International Journal of Earth Sciences & Engineering, Vol. 3 No. 3 pp -404 -413
- “An Experimental Study on Stabilization of Black Cotton Soil Using HDPE Waste Fibers, Stone Dust and Lime” (2014) – International Journal of Advanced Scientific & Technical Research (ISSN: 2249 – 9954), Vol. 6, No.4, pp 90 – 98.
- “Experimental Study on Stabilization of Black Cotton Soil by Fly Ash, Coconut Coir Fiber & Crushed Glass” (2014)– International Journal of Emerging Technology & Advance Engineering (ISSN: 2250 – 2459),Vol. 4, No.11, pp330-333
- “Experimental Study of Black Cotton Soil Stabilized with Rice Husk, Fly Ash and Lime” (2014) – International Journal of Engineering Research & Technology (ISSN: 2278 – 0181), Vol. 3, No.11, pp 660 – 664.
- “Experimental Study on Tee Shaped Footing under Eccentric Vertical Loading” (2015) – International Journal of Scientific Research & Development (ISSN: 2321 – 0613), Vol. 2, No.11, pp 489 – 494.
- "An Experimental Study of Rectangular T-Shaped Footing Subjected to Dynamic Load" (2015)- International Journal of Science, Engineering and Technology (ISSN:2395-4752),Vol. 3, No.6, pp179-188
- “Experimental Study of an Angle – Shaped Footing under Dynamic Loading” – International Journal of Advanced Engineering & Technology.
- “An experimental study of T – Shaped Footing of Varying Projection Location under Eccentric Vertical Loading” (2017) – International Journal of Scientific Engineering & Technology Research, Vol. 6, Issue – 32. Pp 6755 – 6758.
- “Design of Pile Foundation of a High Rise Building under Different Seismic Zones” (2019)- International Journal of Emerging Technologies & Innovative Research, Vol. 6 Issue – 3.
- “Finite Element Analysis of T – Shaped Footing of Varying Projection Location using Ansys” (2019) – International Research Journal of Engineering & Technology, Vol. 6 Issue – 11.
- “Finite Element Analysis of Vane – Shaped Footing of Varying Projection Location using Ansys” (2019) – International Journal for Scientific Research & Development, Vol. 7 Issue – 9.

(B) National Journals

- “The Effect of Lateral Confinement on Bearing Capacity of Fine Sand” (1992) - Indian Geotechnical journal vol., 22 No. 4 pp 227-234.
- “Analysis of Angle Shaped Square Footings Resting on Soil under Eccentric Inclined Load” (2008) – Emerging Journal on Engineering Science and Technology. Vol. 1. No.1, pp-8-15.
- “Performance of Angle Shape Footing Resting on Soil under Eccentric Inclined Load” (2008) –Emerging Journal on Geotechnical Engineering, Vol. 14, Band F pp 1-10.
- “Angle Shaped Rectangular Footing with Variable Angle of Footing Projection Under Eccentric Vertical Load” (2008)- Published in Emerging Journal on Geotechnical Engineering, Vol. 14, pp 1-9.
- “Angle Shaped Footing Under Eccentric Vertical Load” (2010) - Indian Geotechnical Journal Vol.40 No.2 pp-129-134
- “Design of High Embankments for High Speed Track near Pithampur Situated at Malwa Plateau (2014)- Journal of Indian Highways, May 2014, pp 29 - 37
- "Partial Replacement of Fine Aggregate by Brick & Glass Powder for Different Grads of Concrete (2015) - Journal of Indian Highways, Vol. 43 No-7, pp-11-16

(C) International Conferences

- “Performance Study of Bi-Angle Shape Skirted Footing in Yellow Soil Subjected to Two Way Eccentric Load”, - Proceedings of International Conference on Advances in Civil Engineering
- “Application of Finite Element Technique to Analyze Confined Footing” (1999) Proceeding of South Asian Countries Conferences held at Kathmandu, Nepal during May1999.

(D) National Conferences

- “The Effect of Lateral Confinement on Bearing Capacity of Coarse Sand in Dry & Saturated State” (Hindi) Proceeding of Seminars in Hindi on Geotechnical Aspects & Constructional Materials for River Valley Project held at CSMRS New Delhi during Feb ‘1997.
- “The Effect of Lateral Confinement on Bearing Capacity on Fully Saturated Fine Sand” Proceedings of Indian Geotechnical Conference held at Varodara during Dec’1997.
- “Inculcation of Environmental Awareness in Education” Proceeding of National Seminar on Environmental Aspect of Engineering Practice held at Jhansi during April1998.
- “Test on Lime Stabilized with Gypsum as Additive”, Proceeding of National Seminars on Construction in Expansive Soils held at Indore during May1998.
- “Moment Tilt Characteristic of Angle Shaped Footing under Eccentric Loading”. Proceedings of Indian Geotechnical Conference held at Indore during Dec.2001.
- “Effect of Partial Surcharge on Settlement Characteristics of Sand” Proceedings of Indian Geotechnical Conference held at Indore during Dec.2001.
- “Rectangular Footing Confined on Two Opposite Sides”, Proceedings of Indian Geotechnical

Conference held at IIT Roorkee during Dec.2003.

- “Effect of Shear Parameters on Bearing Capacity of Angle-Shaped Footing”, Proceedings of Indian Geotechnical Conference held at NIT Warangal during Dec.2004.
- Experimental Studies on Angle Shaped Footing resting on Cohesive Soil under Eccentric Loading. Indian Geotechnical Conference in Dec.2005 at Nirma University Ahmadabad.
- “Behavior of Horizontal Displacement in an Angle Shape Footing Under Eccentric Inclined Loading”- Proceedings of Indian geotechnical Conference on Geotechniques in Infrastructure Development held at Guntur during 17th -19th Dec 09.
- “Prediction of Bearing Capacity of Rock using the Criteria of Rock Mass Rating” – National Conference on Geotechnical Problems: - Case Studies, Organized by Indian Geotechnical Society, Indore Chapter, Oct. 2012.

List of Conferences, Seminars, Short – term Courses Participated

- Application of Space Borne Data to Earth Science – (Winter School) during 16 – 28 November ‘1992.
- Application of Finite Element in Non Linear Problems of Civil Engineering – (Winter School) during 7 – 18 October ‘1996
- Indian Geotechnical Conference in Dec. 1996 at Madras – Attended.
- National Seminar in Hindi ON Geotechnical Aspects of Constructional Material for River Valley Projects during Feb’97 Held at CSMRS New Delhi - Presented paper.
- Indian Geotechnical Conference in Dec. 1997 at Varodara – Presented paper.
- South Asian Countries Conferences in April 1999 at Nepal. – Presented paper.
- Indian Geotechnical Conference in Dec .2000 at Mumbai – Attended.
- Short Term Course on Seismic Effect on Foundation Engg. In April 2001 at Varadara - attended
- Indian Geotechnical Conference in 2001 at Indore – Presented 2 papers.
- Indian Geotechnical Conference in Dec. 2002 at Allahabad – Attended
- Indian Geotechnical Conference in Dec .2003 at IIT Roorkee – Presented paper.
- Indian Geotechnical Conference in Dec. 2004 at NIT Warangal – Presented paper.
- Indian Geotechnical Conference in Dec. 2005 at Nirma University Ahmadabad – Presented paper.
- Short term Course of Non Linear Analysis of Structures at IIT Kanpur during Oct ‘2006
- Asian Regional Conference in Dec. 2007 at Kolkata
- Indian Geotechnical Conference in Dec. 2008 at Bangalore
- Indian Geotechnical Conference in Dec. 2015 at College of Engineering Pune

List of Conferences, Short term Courses, Workshop Organized

National Seminar on Construction in Expansive Soil May 1998 – Member of Organizing Committee.

National Seminar on Foundation Problems – Case Studies October –2000 – Member of Organising Committee.

National Seminar on IS-456-2000 February 2001 – Member of Organizing Committee.

Indian Geotechnical Conference in Dec. 2001 - Member of Organizing Committee.

National Workshop on Geotechnical Investigation and Highway Material Testing (GIHMT 2002) August-2002 – Organizing Secretary.

National Seminar on Geotechnical Problems – Case Studies (NSGPC 2002) October 2002 – Member of Organizing Committee.

Two Days National Training Workshop on Soil & Highway Material Testing (SHMT 2003) August-2003 – Organizing Secretary.

National Paper Presentation Contest for UG/PG Student of Civil Engg/ Geotech. Engg (GEOCONCEPT) 2004–March 2004-Organising Secretary.

Two Days National Training Workshop on Soil & Highway Material Testing (SHMT 2004) – Organizing Secretary.

National Seminar on Geotechnical Problems – Case Studies October 2004 – Member of Organising Committee.

Two Days National Training Workshop on Soil & Highway Material Testing (SHMT 2005) – Convener.

National Paper Presentation Contest for UG/PG Student (GEOCONCEPT2005) - Convener.

One Days National Training Workshop on Soil & Highway Material Testing (SHMT 2006) Nov'2006 - Convener.

National Seminar on Geotechnical Problems – Case Studies October 2006 (NSGPC 2006) – Member of Organizing Committee.

National Paper Presentation Contest for UG/PG Student (GEOCONCEPT2007) - Convener.

One Day National Training Workshop on Soil and Highway Material Testing – Organizing Secretary (SHMT2007) – Organizing Secretary

National Seminar on Geotechnical Problems – Case Studies October 2008 (NSGPC 2008) – Member of Organizing Committee.

First International IGS Ferroco Terzaghi oration lecture-2008 – Organizing Secretary

National Paper Presentation Contest for UG/PG Student (GEOCONCEPT2009) - Convener.

National Seminar on Geotechnical Problems – Case Studies October 2010 (NSGPC 2010) – Organizing Secretary

- 10 One Day National Training Workshop on Soil and Highway Material Testing – Organizing Secretary (SHMT2011) – Organizing Secretary
- 11 National Paper Presentation Contest for UG/PG Student (GEOCONCEPT2011) - Convener.

Expert Lectures Delivered:

Index Properties, their determination. Interpretation and Importance: Lecture delivered in a work shop on Soil & Highway Material Testing Organized at SGSITS, Indore by IGS Indore Chapter during July 2010

Discussion on Strength and Compressibility of soil: Lecture delivered in a work shop on Soil & Highway Material Testing Organized at SGSITS, Indore by IGS Indore Chapter during July 2011

Index Properties, their determination. Interpretation and Importance: Lecture delivered in a work shop for field engineers involved in infrastructure development, Organized at SGSITS, Indore by Civil Engineer Department & MPRRDA during July 2009.

Index Properties, their determination. Interpretation and Importance: Lecture delivered in a work shop on Soil & Highway Material Testing Organized at Vindhya Institute of Technology, Indore Organized by IGS Indore Chapter during July 2013

Index Properties, their determination. Interpretation and Importance: Lecture delivered in a work shop on Soil & Highway Material Testing Organized at Malwa Institute of Science & Technology, Indore Organized by IGS Indore Chapter during July 2014

Role of Civil Engineers in the coming year: Lecture delivered at Prestige Institute of Engineering during September 2013.

Index and strength Properties, their determination. Interpretation and Importance: Lecture delivered at Acropolis Institute of Research & Technology Indore in February 2017

Infrastructure Development in the Institute

Construction of two stories (second & third story) of Advance Technology Centre in the institute. Construction of two stories (Second & Third story) of New Girls Hostel. Construction of structure and Geotechnical Engineering building. Face lifting of Library Building. All the construction works were started in 2009 and completed in 2011. Approximate cost of construction all buildings was Rs. 3.10 crore.

Construction of Lecture Theatre Complex. Construction of Staff Quarters for non teaching staff, Construction of Institute Guest House, Construction of two stories (Fourth & Fifth story) of Advance Technology Centre in the institute. Construction three story girls hostel with the grant received from AICTE, New Delhi. All the construction works were started in July 2013 and at the verge of completion. Approximate cost of construction of all projects was Rs. 8.00 crore.

Construction of Basket Ball court, Wooden flooring of Badminton Court.

Construction of Toilet Block, Gymnasium, laying of new sewage line, installation solar water heater in the hostel buildings

Renovation of various laboratories of Civil Engineering department, Electrical Engineering,

Computer Engineer, Applied Chemistry and Industrial Engineering Department..Development of Computation facilities in Civil Engineering and Computer Engineering Department.

Membership of Professional Bodies:

- (i) Indian Geotechnical Society, (ii) Indian Society of Technical Education
- (iii) Institution of Engineers (India), (iv) Association of Structural Engineers