



- 1. Name in Full:** Dr. Nilkanth Hanmantrao Kulkarni
- 2. Office Address:** Dr.N.H.Kulkarni
Associate Professor, Department of Civil Engineering,
Shri Guru Gobind Singhji Institute of Engg. & Tech.,
Vishnupuri, Nanded – 431 606.
(An Autonomous Institute Owned by Govt. of Maharashtra)
- 3. Residential Address:** Dr. N.H.Kulkarni
Flat No. 202,
Vrindavan Apartment,
Laxmi Narayan Nagar, Nanded – 431 605.

4. Educational Qualification:

Diploma/Degree	College / University / Institute	Class / Division	Year Publication
Diploma in Civil Engineering	Government Polytechnic, Nanded. (Maharashtra State Board of Technical Education, Mumbai.)	First Division	1985
B.E. (Civil –Water Management)	Shri Guru Gobind Singhji College of Engg. & Tech., Nanded. (Marathwada University, Aurangabad.)	First Division With Distinction (Gold Medal for Being University Topper)	1988
M.E. (Civil –Water Management)	Shri Guru Gobind Singhji College of Engg. & Tech., Nanded. (Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.)	First Division	1996
Ph.D. (Civil Engineering)	Indian Institute of Technology Bombay.	Completed	2008

5. Teaching Experience:

Employer	Position	From	To	Pay Scale
Shri Guru Gobind Singhji College of Engg. & Tech., Nanded.	Lecturer	26/08/1988	31/12/1995	8,000 to 12,000
Shri Guru Gobind Singhji College of Engg. & Tech., Nanded.	Lecturer (Senior Scale)	01/01/1996	25/08/1998	10,000 to 13,500
Shri Guru Gobind Singhji College of Engg. & Tech., Nanded.	Lecturer (Selection Grade)	26/08/1998	31/03/2009	12,000 to 18,300
Shri Guru Gobind Singhji Institute of Engg. & Tech., Nanded.	Associate Professor	01/04/2010	Till date	AGP: 9000

6. Courses taught:

Sr. No.	Course Title	UG / PG
1	Engineering Mechanics	U.G.
2	Project Management	U.G.
3	Engineering Hydrology & Groundwater Engineering	U. G. & P.G.
4	Irrigation Engineering and Hydraulic Structures	U. G. & P.G.

7. Research Guidance:

Sr. No.	Name of Student	Year of Completion	M.Tech. / Ph.D.
1	Mr. Zaheer A.M.	2015	M.Tech.
2	Mr. Nandkishore Mande	2016	M.Tech. (Water Management)
3	Mr. Yuvraj Shete	2016	M.Tech. (Water Management)
4	Mr. Akshay Kadam	2018	M.Tech. (Structural Engg.)
5	Mr. Ketan Kharche	2018	M.Tech. (Structural Engg.)
6	Mr. Mayank Gupta	2023	Ph.D. under National Doctoral Fellowship

8. Consultancy Provided:

Year	Organization	Nature of Projects	Amount Earned
2012-2016	Nanded Waghala City Municipal Corporation and Municipal Councils in Nanded District, Maharashtra	Third Party Technical Audit of CC Road and Drainage Network Project	Rs. 10.00 Lakhs(Approx.)
2016-2019	Water Conservation Department, Government of Maharashtra	Third Party Technical Audit of Jalyukta Shivar Yojana works.	Rs. 2.00 Lakhs (Approx.)
2019-2024	Department of Municipal Administration, Government of Maharashtra	Third Party Technical Audit of Road and Drainage works.	Rs. 5.00 Lakhs (Approx.)

9. Industrial Training:

Year	Organization	Description of Work and Responsibilities
1996	Rashtriya Chemicals & Fertilizers, Chembur, Mumbai.	Use of Project Management Software Microsoft Project for Fertilizer Project.
1996	Humphreys and Glasgow Ltd., Mumbai	Use of Project Management Software Primavera for Seawater Magnesia Project.

10. Areas of Research:

Sr. No.	Research Area
1	Numerical Methods (Finite Differences, Finite Element, Method of Characteristics and Random Walk Method) for Groundwater Flow and Solute Transport Simulation.
2	Soft Computing Techniques (Genetic Algorithm, Artificial Neural Network and Fuzzy Logic) for Groundwater Resources Optimization.
3	Remote Sensing and GIS for Groundwater System Management.

11. (a) Papers in National and International Journals:

Sr. No.	Author(s)	Year of Publication	Title of Paper	Complete Reference of Journal
1	N.H.Kulkarni, B.M.Naik & G.B. Jambagi	1992	Professionalism- Need for Prudent Project Management	Indian Water Works Association Journal
2	N.H.Kulkarni & A.K.Rastogi	Vol. 2(8), August 2012, ISSN 2250- 2459.	Numerical Experiments on Solute transport in Groundwater Flow System	International Journal of Emerging Technology and Advances in Engineering
3	N.H.Kulkarni & A.K.Rastogi	Vol. 1(1), pp. 1-8, March 2014, ISSN 2278- 2311.	Groundwater Quality Modeling using Finite Element and Modified Method of Characteristics Models	International Journal of Innovative Research in Advanced Engineering
4	N.H.Kulkarni & A.K.Rastogi	Vol.1(2), pp. 23-30, April 2014, ISSN 2278- 2311.	Comparison of Explicit Finite Difference Model and Galerkin Finite Element Model for Simulation of Groundwater Flow	International Journal of Innovative Research in Advanced Engineering
5	N.H.Kulkarni & A.K.Rastogi	Vol. 1(2), pp. 1-8, April 2014.	Comparison of Galerkin Finite Element, Modified Method of Characteristics and Random Walk Models for Solute Transport Simulation in Groundwater Flow Systems	International Journal of New Technologies in Civil Engineering
6	N.H.Kulkarni	Vol. 7(5), pp. 75-83, May 2015, ISSN 2141- 6613.	Numerical Simulation of Groundwater Recharge from Injection Well	International Journal of Environmental & Water Resources Engineering (Academic Journals)

7	Nilkanth Kulkarni	2018	A New Numerical Model Coupling Modified Method of Characteristics and Galerkin Finite Element Method for Simulation of Solute Transport in Groundwater Flow System	Aquademia: Water, Environment and Technology
8	Mayank Gupta , N.H. Kulkarni	2022	Design of self-cured geopolymer concrete using Taguchi approach	ADBU-Journal of Engineering Technology
9	Mayank Gupta, N.H. Kulkarni	2022	Investigation on the characteristics of selfcured geopolymer concrete using GBFS sand	Innovative Infrastructure Solutions
10	Mayank Gupta, N.H. Kulkarni	2023	Replacement of Natural Aggregates in Geopolymer composites - A brief review	ADBU-Journal of Engineering Technology

(b) Papers in International Conferences:

Sr. No.	Author(s)	Year of Publication	Title of Paper	Name of Conference
1	N.H.Kulkarni & A. K. Rastogi	2001	Numerical Experiments on Solute Transport in Subsurface Flow Domain	International Conference on Mathematical Modeling, University of Roorkee, India.
2.	N.H.Kulkarni & A. K. Rastogi	2002	A MMOC Model for Solute Transport Modeling in Groundwater Flow.	International Groundwater Conference, Dindigal, India.
3.	N.H.Kulkarni & A. K. Rastogi	2006	Numerical Modeling of Solute Transport in Groundwater Flow System.	International Conference on Challenges in Coastal Hydrology & Water Quality, Louisiana State University, U.S.A.

4.	N.H.Kulkarni & A. K. Rastogi	2008	An application of FEFLOW-MMOC Model for Large Aquifer Flow System.	International Conference on Groundwater Dynamics and Global Change, University of Rajasthan, Jaipur, India.
5	Nilkanth Kulkarni	2015	Numerical Simulation of Solute Transport in Highly Heterogeneous Aquifers- A Case Study of Mahi Right Bank Canal Command (MRBC) Aquifer, India.	AGU Chapman International Conference on The MADE Challenge for Groundwater Transport in Highly Heterogeneous Aquifers, Valencia, Spain.
6	Nilkanth H.Kulkarni & Rajesh Gupta	2017	Numerical Simulation of Solute Transport in Groundwater Flow System using Random Walk Method	Springer Publications of Proceedings of International Congress on Geostatistics, Valencia, Spain.
7	Nilkanth Kulkarni	2017	Numerical Simulation of Effect of Climate Change on Solute Transport in Groundwater Flow System.	International Conference on Technological Advances in Climate Smart Agriculture and Sustainability, SGGSI&T, Nanded.

(c) Papers in National Conferences:

Sr. No.	Author(s)	Year of Publication	Title of Paper	Name and Place of Conference
1.	N.H.Kulkarni & A. K. Rastogi	2003	Numerical Modeling of Solute Transport in Groundwater Flow	National Conference on Integrated Sustainable Water Resources Development and Management, BITS, Pilani.
2.	N.H.Kulkarni & M.L.Waikar	2010	Numerical Groundwater Quality Modeling	National Conference on Sustainable Water Resources and Environment, SRTMU, Nanded.
3	N.H.Kulkarni & A. K. Rastogi	2014	Numerical Simulation of climate change on groundwater Flow in Mahi Right Command (MRBC) Aquifer (Invited Lecture)	National Conference on Sustainable development of Environmental Systems, IIT Guwahati.

(d) Books/Research Monographs Published:

Sr. No.	Name of Book & Author(s)	Year of Publication	Name of Publisher
1	Basic Civil Engineering (Surveying, Building Planning and Construction) by N.H.Kulkarni	1996	Sadhusudha Publications, Nanded, India.
2	Numerical Modeling of Solute Transport in Groundwater Flow System by Nilkanth.Kulkarni & Ashok Kumar Rastogi	2011	LAMBERT, Academic Publishers, Germany.

(e) Patent Filed/Granted:

Sr. No.	Details of the Patent	Year of Publishing/ Granting	Number of the Patent
1	A Novel Artificial Groundwater Recharge Unit by N.H.Kulkarni, Nayan Pund & Prashant Tamboli	Published in the Patent Office Journal dated 22/05/2015 on the Page 35060.	664/MUM/2015 A

12. Awards & Other Achievements:

Sr. No.	Nature of award	Year
1	Gold Medal for being University Topper at U.G. level in Faculty of Engineering at the auspicious hands of then Chief Minister of Maharashtra Late Hon'ble Shri S.B. Chavan	1988
2	Student Travel Award for participating in the American Institute of Hydrology Annual Meet & International Conference on Challenges in Coastal Hydrology and Water Quality, Louisiana State University, U.S.A.	2006
3	Rashtriya Gaurav Award for meritorious service in technical education by IIFS, New Delhi	2012
4	Bharat Vikas Award from Institute of Self Reliance, Bhubaneswar-751003	2016
5	EET CRS Award for Excellence in Research	2020
6	NPTEL Online Certification: Secured All India Rank in Hydraulic Engineering Course with a consolidated score of 90% .	2021
7	ASDF Global Award as Best Academic Professor of the Year 2021	2021
8	Sustainable India Award for Individual Contribution: Sustainable Technology Awards	2022

13. Any Other Relevant Information:

(a) Field Visits with U.G. and P.G. students:

Sr. No.	Name of the Organization	Year
1	Watershed Works: At: Ralegan Siddhi Dist. Ahmednagar (Maharashtra)	2009
2	Barrage Works: Babhali Barrage on Godavari River, At: Babhali, Dist. Nanded. (Maharashtra)	2009

(b) Department/Institute Level Portfolios:

Sr. No.	Nature of portfolio	Duration	Department/Institute Level
1	M.Tech. Civil (Water Management Engg.) Coordinator	2011-2013	Department
2	M.Tech. Civil (Structures) Coordinator	2016-2018	Department
3	B.Tech. III rd Year Civil (Water Management Engg.) Coordinator	2015-2016	Department
4	B.Tech. I st Year (All Branches) Course Coordinator of Engineering Mechanics	2013-2017	Institute
4	Coordinator for N.B.A. of M.Tech. Civil (Water Management Engg.) Course	2012	Department
5	Member of the Curriculum Design of B.Tech. (Civil Engg.) Course	2015	Department
6	Coordinator of the Academic Audit of B.Tech. Civil (Water Management Engg.) Course	2013	Department
7	Faculty Incharge of Civil Works of New Departmental Building (Approx. Cost Rs. 10 Crores) at Shri Guru Gobind Singhji Institute of Engg. & Tech., Nanded.	2012	Institute
8	Head, Department of Civil Engineering, SGGSIET, Nanded.	2017-2019	Institute
9	Nodal Officer, Unnat Maharashtra Abhiyan, SGGSIET, Nanded.	2016-2024	Institute

(c) External Teaching:

Sr. No.	Name of the Organization	Subject taught & Year
1	Govt. College of Engineering, Aurangabad (M.S.)	Project Management – 2009
2	AP-IIIT, Basar (A.P.)	Fluid Mechanics -2012

(d) Membership of Professional Bodies:

Sr. No.	Name of the Body	Status of Membership : Life / Annual Year of Membership
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1	Indian Society for Technical Education, New Delhi,	Life Member-1991
2	Indian Institute of Public Administration, New Delhi.	Life Member-1994
3	Association of Global Groundwater Scientists	Life Member-2013
4	Editorial Board of STM Journal of Water Pollution & Purification Research	Member
5	Board of Studies in General Engineering of Swami Ramanand Teerth Marathwada University, Nanded.	Member
6	Board of Studies in Civil Engineering, Government College of Engineering, Amravati.	Member
7	Institution of Engineers, India.	FIE (F-1284483)

(e) Contact information of Referee:

Sr. No.	Name of the Referee	Affiliating Organization & Address
1	Prof. B.M.Naik	Ex. Principal, Shri Guru Gobind Singhji College of Engineering & Technology, Vishnupuri, Nanded.
2	Prof. Jaime Gomez Hernandez	Professor in Dept. of Hydraulic and Environmental Engineering, UPV, Spain. E-mail: jgomez@upv.es
3	Prof. V.P. Singh	Professor in Dept. of Agricultural and Biological Engineering, Texas A&M University, Texas, U.S.A. E-mail: vsingh@tamu.edu

14. Training courses organized and attended:

(a) Training courses organized:

Sr. No.	Title of the training course	Year	Organization
1	Workshop on Technologies for Rural Development	1994	SGGSCE&T, Nanded.
2	One week ISTE-STTP on Emerging trends in Project Management	2009	SGGSIE&T, Nanded.
3	One day program on Importance of Patent in Research	2015	SGGSIE&T, Nanded.
4	Two Days Workshop on Tall Buildings Design	2016	SGGSIE&T, Nanded.
5	A QIP short term course on "Advances in Water Engineering"	2019	SGGSIE&T, Nanded.

(b) Training courses attended:

Sr. No.	Year	Nature of Training	Duration	Organization where training was provided
1	1990	Structures for Nuclear Power Plants	2 Weeks	IIT Madras
2	1991	Experiments in Fluids	2 Weeks	IIT Kanpur
3	1994	Project Management	1 Week	IIPA, New Delhi.
4	1996	Project Formulation and Appraisal Techniques- Small Industry Projects	1 Week	NISIET, Hyderabad.
5	1996	Remote Sensing and Digital Image Processing	1 Week	NRSA, Hyderabad.
6	1997	Ground Improvement Technology	2 Weeks	Bengal Engg.College, Howrah.
7	1998	Advances in Civil Engineering	1 Week	SGGSCE&T, Nanded.
8	2000	C and C++ Programing	3 Weeks	SGGSCE&T, Nanded.
9	2001	Water Management-Interdisciplinary Approach	2 Weeks	SGGSCE&T, Nanded.
10	2001	Finite Element Analysis	1 Week	IIT Bombay
11	2008	Action Research in Technical Education	1 Week	NITTR, Bhopal.
12	2009	Geomatic Applications for Sustainable Water Resources and Environment	3 Weeks	JNTU, Hyderabad.

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