

DR. SANGITA VILAS PAWAR

Contact No.: +91-9561838080

E-Mail: sangita.pawar23@gmail.com

Birth Date: 23rd Dec1989

www.linkedin.com/in/sangita-pawar-36ba2758



To secure a challenging position in a reputable organization where I can fully utilize my training and skills while making a significant contribution to the success of the organization.

PROFILE SNAPSHOT

- An enthusiastic [Civil Engineering](#) graduate and Post Graduate in [Water Resources Engineering](#) with
 - **6 Months Course work Experience** in Applied Hydrology, SVNIT, Surat.
 - **7 Years Research Experience** in the Field of Reservoir Operation at SVNIT, Surat
- Ready to take on responsibility.
- Experience of working collaboratively on a wide range of live projects with proficiency in Auto-CAD, LINGO, Sewer GEMS and ArcGIS Software.
- Capable of applying engineering methods to design and research projects.
- Excellent writing and communication skills.
 - Working for reservoir operation as a research scholar in SVNIT, Surat.
 - Pursued online SWAYAM- NPTEL certified course on 'Integrated Waste Management for a smart city'.
 - Pursuing online SWAYAM-NPTEL certification course on 'Irrigation and Drainage'.
 - Pursuing online SWAYAM-NPTEL certification course on 'Remote Sensing and GIS'.

SUBJECTS OF INTEREST

Hydrology & Water resources Engineering

Mathematical Modeling

Fluid Mechanics

Dams and Hydraulic Structures

Solid waste management

EXPERIENCE IN PROJECTS

<i>Project Summary</i>	<i>Work done/Skills Developed</i>
Title: Intuitionistic fuzzy optimization approach in multi-objective optimization of KRBMC irrigation system, India Year: 2019 Organization -SVNIT, Surat. Role: Research Scholar (PhD) Software Used: LINGO.18, ArcGIS	<ul style="list-style-type: none">▪ Conceptualization of checklist and models for the project of KRBMC.▪ Developed proficiency in LINGO for optimization techniques.▪ Developed parameters for significance of degree of acceptance and degree of rejection.
Title: Sustainable irrigation planning for reservoir system with intuitionistic fuzzy optimization approach -A case study Year: 2018 Organization - SVNIT, Surat. Role: Research Scholar (PhD) Software Used: LINGO.18, ArcGIS	<ul style="list-style-type: none">▪ Developed membership and non-membership functions.▪ Carried out check for continuity, check for releases with actual releases and check for evaporation.
Title: Sustainable irrigation planning for Khadakwasla complex reservoir system with Intuitionistic fuzzy optimization approach Year: 2016-17 Organization - SVNIT, Surat. Role: Research Scholar (PhD) Software Used: LINGO, ArcGIS	<ul style="list-style-type: none">▪ Developed inflow fitting curves, evaporation calculations by various methods.▪ Carried out frequency analysis.▪ Calculated irrigation intensity.▪ Analyzed data for Khadakwasala complex reservoir system.
Title: Optimal reservoir operation using Genetic Algorithm Year: 2017 Organization -MCOERC, Nashik Role: Guide for B.E. civil Students Software Used: LINGO	<ul style="list-style-type: none">▪ Analyzed Data for Gangapur reservoir.

Title: Optimal Irrigation Planning under Intuitionistic Fuzzy environment Year: 2016 Organization- SVNIT, Surat. Role: Research Scholar Software Used: LINGO, ArcGIS	<ul style="list-style-type: none"> Developed mathematical models for reservoir system and Inflow fittings. Prepared optimization for conflicting objective functions. Carried out data analysis, Data extraction.
Title: Optimal Reservoir operation using fuzzy technological coefficients- A Case study. Year: 2013 Duration- 12 Months Organization- GCOE, Aurangabad. Role: Student of ME-Civil Engineering Government college, Aurangabad Software Used: LINGO	<ul style="list-style-type: none"> Developed proficiency in LINGO, ArcGIS Software. Carried out optimization of single objective function for Gangapur, Nashik reservoir system. Carried out data collection and analysis.
Title: Sewage Waste Water Treatment A case study-Panchak treatment plant, Nashik Year: 2011 Duration- 12 Months Organization- NDMVP COE, Nashik Role- Student of BE-Civil Engineering Pune University	<ul style="list-style-type: none"> Checked design of treatment plant: Checked whether the units of treatment plant are designed for maximum efficiency within certain flow range and sewage characteristics.

ORGANISATIONAL EXPERIENCE

Sr.no.	Position	Service Period	Institute/Organisation
1.	Assistant Professor	June 2013- August 2015	Sanghavi College of Engineering, Nashik
2.	Lecturer	June 2011-May 2013	CSMSS College of Polytechnic, Aurangabad

ACADEMIC DETAILS

- Institution:** N.D.M.V.P. College of Engineering, Nashik
Degree: B.E- (Civil Engineering)
- Institution:** Government College of Engineering, Aurangabad
Degree: M.E- (Water Resources Engineering)
- Institution:** SVNIT, Surat
Degree: PhD (Water Resources Engineering)

Exam	Year	University/Institute	% Marks/CGPA	Class
PhD (WRE)	2023	Sardar Vallabhbhai National Institute of Technology, Surat, Gujrat		
M.E (WRE)	2011-13	Government College of Engineering, Aurangabad	81.46/CGPA-8.396	Distinction
B.E (CIVIL)	2007-11	S. P. Pune University	63.33	First Class
HSC	2006-07	Maharashtra State Board-Pune	60.17	First Class
SSC	2004-05	Maharashtra State Board-Pune	64.53	First Class
MS-CIT	2011	Maharashtra State Board-Mumbai	96.00	Distinction

SOFTWARE SKILLS

- Proficient in software like AutoCAD, sewer GEMS, LINGO.20, MATLAB, TORA

ACHIEVEMENTS

- Participation in festival of revolutionary civil engineer's national level symposium & has secured 2nd place in 'TENDERING' (F.O.R.C.E.).
- Actively participated in national level technical fest of 'BRIDGE MODEL' making competition (TECHNOSPIRE).
- Participation in zonal level research project competition (AVISHKAR).
- Pursuing 'Sangeet Visharad', Bachelor's Degree in Indian Classical Music from Vishnu Sangeet Mahavidyalaya
- Performed at various events like College annual musical event 'FUSION', Yuva Manch, NSS camp.

PUBLICATION DETAILS (WATER RESOURCES ENGINEERING)

No.	Authors	Year	Title of paper	Name and Place of Conference/ Publishers
1.	Sangita Pawar, Dhikale. Thorat	2017	Optimal Reservoir Operation using GA	GGCOE, Nashik
2.	Sangita Pawar, Dr. P.L. Patel, Dr. A.B. Mirajkar	2016	Optimal Reservoir Operation using IFO Approach	WRFM-2016, SVNIT, Surat
3.	Sangita Pawar,	2016	Optimal Reservoir Operation for irrigation under Fuzzy logic technique	AVCOE, Nashik
4.	Sangita Pawar, Dr. D. G. Regulwar,	2013	Optimal Reservoir Operation for irrigation under Fuzzy Environment	National conference on Sustainable Water Resources Planning, Management & Impact of Climate Change , SWRM at Bits Pilani, Hyderabad

PUBLICATIONS

- Multiobjective Intuitionistic Fuzzy Optimization Approach in Optimal Irrigation Planning and Operation of Reservoir, 37, pages1033–1053 (2023), <https://doi.org/10.1007/s11269-022-03406-8>, Water Resources Management, Springer.
- Intuitionistic fuzzy optimization approach in optimal irrigation planning of Ukai-Kakrapar irrigation project, India, 29 (3), 367-377, 2022. <https://doi.org/10.1080/09715010.2022.2052988>, ISH Journal of Hydraulic Engineering.
- Intuitionistic fuzzy approach in multi-objective optimization for KRBMC irrigation system, India, 28, 463-470, 2022 <https://doi.org/10.1080/09715010.2020.1781700>. ISH Journal of Hydraulic Engineering.
- Hesitant Intuitionistic Fuzzy Approach in Optimal Irrigation Planning in India, 25(1), 93, 2023, Environmental Sciences Proceedings
- International Journal of Advance Foundation and Research in Science and Engineering- 'Behaviour of Hybrid Fiber Reinforced Concrete Deep Beam in Flexure and Evaluation of Mechanical Properties of Concrete' IJAFRSE, Vol. 1, Special Issue JCON 2015, Impact Factor-1.036
- National Conference on Emerging Trends & Applications In Engineering & Sciences - 'Behaviour of Hybrid Fiber Reinforced Concrete Deep Beam in Flexure and Evaluation of Mechanical Properties of Concrete' JCON 2015 (ETA-EAS), Impact Factor-1.036
- International Journal of Advance Research in Science and Engineering- 'Flexural Behaviour of Hybrid Fiber reinforced concrete deep beam and effect of steel & polypropylene fiber on mechanical properties of concrete' IJARSE 2015, ISSN-239-8354, Vol.04, Issue 02, Feb.2015, Impact Factor -1.142.
- International Journal of Latest trends in engineering & Technology' Effect of hybridization on Reinforced concrete Deep beams in flexure, Vol. 05, Issue-02, March 2015.
- International Journal of Advance Foundation & Research in Computer- 'Behaviour of Hybrid Fiber Reinforced Concrete Deep Beam in Flexure and Evaluation of Mechanical Properties of Concrete' IJAFRC, Vol.01, Issue-5, May 2014.
- 'Behaviour of Hybrid Fiber Reinforced Concrete Deep Beam in Flexure and Shear' Proceeding of 4th International Conference on Recent Trends in Engineering & Technology- 'Mc Graw Hill'

TRAINING PROGRAMMES /CONFERENCE

- Participated in One Week Short Term Training Programme on 'Design of Storm Water Network for Smart City: Theory and Practice', organized by Department of Civil Engineering, Sardar Vallabhbhai National Institute of Technology, Surat during January 2-6, 2017.
- Participated in Two-day seminar on 'Simulation Modeling in Manufacturing and Service Industry', organized by Department of Production Engineering, K.K.Wagh Institute of Engineering in association with University of Pune during March 1-2, 2013.
- Participated in One Week TEQIP Short Term Training Programme on 'Engineering Optimization and Its Applications (EOAIA-2012)', during 25-29 June, 2012 sponsored by Technical Education Quality Improvement Programme (TEQIP Phase II) Under CEP at Department of Civil Engineering, Government College of Engineering, Aurangabad etc.
- Participated in One Week TEQIP Short Term Training Programme on 'Soft Computing Tools and Its Applications in Engineering (SOCTAPE-2013)', during 3-7 June, 2013 sponsored by Technical Education Quality Improvement Programme (TEQIP Phase II) Under CEP at Department of Civil Engineering, Government College of Engineering, Aurangabad.
- 21st International Conference on Hydraulics, Water Resources and Coastal Engineering during December 08-10, 2016.

BOOKS PUBLISHED

Sr. No.	Title of the book / book chapters	Name of the publisher	ISBN
1	Optimal Reservoir Operation Using Fuzzy Logic Technique-A Case Study	LAP LAMBERT Academic Publishing, 2020	ISBN:978-620-0-56392-7
2	Advanced Surveying Manual	LAP LAMBERT Academic Publishing, 2020	ISBN:978-620-3-19765-5

LIFE TIME MEMBERSHIP

- HDUG Membership HP, Nashik- Membership No.-202049F
- IEI-Institution of Engineers (India)-Membership No. AM1710799
- ISH-Indian Society for Hydraulics-LM Card No.1199

UGC APPROVAL

- Ref/CCO/4060 dated 10/12/2016
- SCOE/2013-14/598 dated 19/6/2014

EXTRACURRICULAR ACTIVITIES

- Organized event of IBCC INDIA-India's Biggest Civil Bridge Design Contest 'IIT Bombay'
- Participated in National Level Technical Event
- Participated in Cultural Activities in College Gathering.
- Participation in N.S.S Activity during Year 2009-10.
- Internal Senior Supervisor of theory examination (FE, SE, TE 2012 PAT.) being held by Savitribai Phule University of May 2015 examination.
- In charge H.O.D.
- Admission In charge
- Gathering Coordinator
- B.E. Project Guided-01(Optimal Reservoir operation using Genetic Algorithm-A Case Study-Gangapur Dam)
- M.E. Project Guided-05

PERSONAL DETAILS

Date of Birth: 23rd December 1989

Languages Known: English, Hindi, Sanskrit and Marathi
Permanent Address: Plot No.4, Laxmi Nagar, Amrutdham, Behind Bafana Bazar, Panchavati, Nashik, Pin-422003.
Current Address: B-302, Hari Sneh Phase-II, Bodhale Nagar, Behind Aathwan Hotel, Nashik, Pin-422006.
Marital status: Married
Nationality: Indian
Religion: Hindu-Maratha
Blood Group: O '+ve'
Strengths: Creative Mind, Leadership, Confident, Positive Attitude, Hard Working, Time management
Hobbies: Singing, travelling, reading books

I hereby declare that the above written is true to the best of my knowledge and belief.

Date:

Place: Nashik

Sangita Vilas Pawar