BIO-DATA

DR. REGULWAR DATTATRAY GANGARAM
Professor of Civil Engineering Dept.
Maharashtra Institute of Technology,
Chh. Sambhajinagar-431010
Maharashtra State, India.

Residential Address:
Flat No.1, Plot No. 6, Disha Kshitij Appt.,
Ulkanagari,
Chh. Sambhajinagar – 431009

Mobile: 09422202380
Residence: +91 240 2344984
E-mail: regulwar@gmail.com;
Personal Website: http://www.regulwar.com/
Date of Birth: 17-07-1964

Educational Qualifications:

- ✓ **Ph.D. Civil Engineering** (Water Resources Engineering) from National Institute of Technology, Warangal (A.P.) in 2006
- ✓ **M.E.Civil-Water Resources Engineering** from Walchand College of Engineering, Sangli, Maharashtra State (Shivaji University, Kolhapur) in 1997
- ✓ **Diploma in Business Management** from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad in 1989
- ✓ **B.E.Civil** from Government College of Engineering, Aurangabad, Maharashtra State (Dr. Babasaheb Ambedkar Marathwada University, Aurangabad) in 1987

Experience:

Sr	Period From- To	Post held
1	7-7-1987 to 14-6-1988	Lecturer in Civil Engg, M.I.T. Engineering College, Aurangabad
2	23-6-1988 to 29-4-1989	Lecturer in Applied Mechanics, Govt. Polytechnic, Beed
3	22-8-1989 to 8-4-1996	Lecturer in Civil Engg, K.K.Wagh College of Engineering, Nashik

4	9-4-1996 to 09-11-1998	Lecturer in Civil Engineering, Govt. Polytechnic, Nashik
5	10-11-1998 to 1-7-2003	Senior Scale Lecturer in Civil Engineering , Govt. College of Engineering Aurangabad
6	2-7-2003 to 31-12-2005	Selection Grade Lecturer in Civil Engineering, Govt. College of Engineering Aurangabad
7	1-1-2006 to 1-7-2006	Assistant Professor in Civil Engineering, Govt. College of Engineering Aurangabad
8	2-7-2006 to 11-1-2015	Associate Professor, Civil Engineering, Govt. College of Engineering Aurangabad
9	12-1-2015 to 31-7-2024 (Retired on 31-7-2024)	Professor, Civil Engineering, Govt. College of Engineering Aurangabad
10	19-12-2024 to till date	Professor of Civil Engineering, Maharashtra Institute of Technology, Chhatrapati Sambhajinagar-431010

Additional Portfolios:

1. Worked as Incharge Principal as and when Regular Principal was on leave and charge was given to me.
2. Worked as Head of Civil Engineering Department during 24-12-2022 to 31-7-2024
3. Worked as Registrar (Academics) during 11-05-2023 to 31-7-2024
4. Worked as Dean (Academics) during 17-01-2022 to 10-05-2023
5. Worked as Dean (Academics) during 18-7-2017 to 31-7-2019
6. Worked as Dean (Research & Development) during 19-7-2011 to 17-7-2017
7. Nodal Officer: Enhancement of Research & Development Activity, TEQIP-II, during 22-2-2012 to 31-3-2018
8. Coordinator, M. Tech. Civil – Water Resources Engineering course from June 2003 to June 2012 and June 2013 to 31-7-2024 (Total 20 Years)
9. In-charge: Post Graduate Centre, Fluid Mechanics Laboratory during June 2010 to 31-7-2019

Ph.D. topic: Multi Objective Multi-reservoir Optimization in Fuzzy Environment for River Sub Basin Development and Management

Recognized Ph.D. guide at: Dr. B.A.M.University, Aurangabad

Research Areas:
- ➢ Water resources systems modeling
- ➢ Multi-objective optimization for river basin management
- ➢ Fuzzy logic applications in water resources engineering
- ➢ Soft computing in water resources engineering

Associate Editor:

Associate Editor, ISH Journal of Hydraulic Engineering, Taylor & Francis (Scopus)

Research Project Completed:

Project No.	Title of project / Principal Investigator	Amount Sanctioned
TEQIP/R&D/Seed Money/Civil/2014/01	"Calibration and influence of uncertainty analysis of hydrological responses in watershed management practices using ARC-SWAT" Principal Investigator: Dr.D.G.Regulwar Civil Engineering Department	Rs. 3,00,000/- (Rs. Three lakhs only)

PATENTS:
Patent Granted:
1. COMBO COMPASS INSTRUMENT FOR SURVEYING (Class: 01-01)
   Patent Number: 383509, Date of Grant: 02-12-2021
   Patent Application Number: **1456 /MUM/2015**   Dated: April 07, 2015
2. Bearing Converting Instrument for Surveying
   Patent Application Number: **3499/MUM/2014** Dated: November 06, 2014
   Patent Number: 424185, Date of Grant: 06-03-2023

Patents (Design) Obtained:
1. Bearing Converting Instrument for Surveying (Class: 01-01),
   Design Patent Application Number: 260180, C.B.R. No. 1688 Dated: 06-02-2014
2. COMBO COMPASS FOR SURVEYING (Class: 01-01)
   Design Patent Application Number: 265731, C.B.R. No. 14287 Date 17-09-2014

Copyright Obtained:
1. **"KazApp":** A mobile app for data entry and calculation of Reduced Levels in the filed (13-09-2017)
2. **"Bhumi Tantra"**: A software for calculation of Reduced Levels (30-10-2017)

Trade Mark registration Obtained: (24-8-2018)
1. "KazApp"Nos. 3550065 and 3550066 in classes9 and 42
2. "Bhumi Tantra"Nos.3555611 and 3555612in classes 9 and 42

Book Chapter:

1. D. G. Regulwar, J. B. Gurav, R. U. Kamodkar, and V. S. Pradhan (2017)"Conjunctive use of Surface Water and Groundwater using Fuzzy Logic" book chapter in a Book *Sustainable Holistic Water Resources Management in a Changing Climate*, Editors: K. Srinivasa Raju and A. Vasan,M/S Jain Brothers, New Delhi

2. D. G. Regulwar and S. G. Taji (2018), "Management and Modeling of Urban Stormwater" book chapter in a Book "*Managing Stormwater: Practices and Challenges for Reuse and Recycling"* Nova Science Publishers, USA, Editor: Faisal Anwar, Curtin University, Australia

3. S. G. Taji, D. G. Regulwar and V. R. Saraf (2020), "Smart Rain Water Harvesting for Smart Cities", Chapter 6, a book chapter in a book "Security and Privacy Applications for Smart City Development", Studies in Systems, Decision and Control book series (SSDC, volume 308) Springer Nature, pp 91-116. (https://doi.org/10.1007/978-3-030-53149-2)

4. Pachore A.B., Regulwar D.G. (2022) Meteorological Drought Analysis Using SPI-6 for Marathwada Region, Maharashtra State, India. In: Rao C.M., Patra K.C., Jhajharia D., Kumari S. (eds) Advanced Modelling and Innovations in Water Resources Engineering. Lecture Notes in Civil Engineering, vol 176. Springer, Singapore. https://doi.org/10.1007/978-981-16-4629-4_6

5. J. B. Gurav, R. U. Kamodkar, and D. G. Regulwar (2022). Irrigation Planning with Fuzzy Parametric Programming Approach In: P. Kumar et al. (eds.), Water Resources Management and Sustainability, Advances in Geographical and Environmental Sciences, Springer Nature Singapore. https://doi.org/10.1007/978-981-16-6573-8_8

6. R. U. Kamodkar, J. B. Gurav, and D. G. Regulwar (2022). Optimal Multi-Objective Multi-Reservoir Operation Using Interactive Decision-Making by Parametric Approach., In: Surendra Kumar Chandniha, Anil Kumar Lohani, Gopal Krishan, Ajay Krishna Prabhakar, (eds) Advances in Hydrology and Climate Change, Historical Trends and New Approaches in Water Resources Management, CRC Press, Taylor and Francis Group.

7. Dabhade, P.D., Regulwar, D.G. (2023). Sustainable Multiobjective Reservoir Optimization Considering Environmental Flow Using Python. In: Timbadiya, P.V., Patel, P.L., Singh, V.P., Mirajkar, A.B. (eds) Geospatial and Soft Computing Techniques. HYDRO 2021. Lecture Notes in Civil Engineering, vol 339. Springer, Singapore. https://doi.org/10.1007/978-981-99-1901-7_38

Member of Professional Bodies

- Member of Institution of Engineer's(India) M.I.E 116049/9
- Life member of Indian Society for Technical Education, LM 16581
- Fellow of Indian Water Resources Society, F-2016-1405
- Fellow of Indian Society for Hydraulics, F-692 (2020)
- Fellow Member, Indian Association of Hydrologists, Roorkee, FM-303

- ➢ **Executive Council Member (2023-25),** Indian Society for Hydraulics, CWPRS Pune
- ➢ **Executive Council Member** of Indian Water Resources Society, Roorkee for 2021-23
- ➢ **Executive Council Member**, IE(I) Aurangabad Local Centre
- ➢ **Executive Council Member, Alumni Association of GECA**
- ➢ **Editorial board member of International Journal for Technology, Science and Humanity (ECO REVOLUTION)**
- ➢ **Chairman, ISH-Aurangabad Local Centre**
- ➢ **Chairman, IWRS-Aurangabad Local Centre**

Reviewer of Journals:

- Journal of Water Resources Management, Springer
- Journal of Applied Soft Computing, Elsevier
- ISH Journal of Hydraulic Engineering, Taylor and Francis Group
- Hydrological Sciences Journal, Wiley
- Fuzzy Sets and Systems, Elsevier
- Journal of Water Resources Systems Planning and Management, ASCE
- Computers and Electronics in Agriculture, Elsevier
- Environmental Engineering and Management Journal, Technical University of Iasi, Romania
- Hydrological Processes, Wiley
- H2Open Journal, IWA Publishing

Countries Visited:

1. Presented a paper in Special Seminar on "Optimal Irrigation Planning with Minimization of Cost of Cultivation using Fuzzy Logic"on September 10, 2013 in 35th IAHR World Congress, Century City International Convention Center, 88, Century City Boulevard, **Chengdu, Sichuan, 610041 China** during September 8 to 13, 2013 under TEQIP-II (Co-author: Dr. J.B.Gurav)

2. Presented a paper on "Evaluation of Uncertainty Estimates in Distributed Hydrological Modeling for Micro Watershed in Godavari River in India using Sufi-2, and Parasol Methods" in an International Conference 36th IAHR World Congress, during 28 June-3 July, 2015 **Delft – The Hague, The Netherlands.**(Co-author: Ms. Sonali Nagargoje)

Publications (Total: 140)

International Journal Papers:

1. Regulwar, D.G., and Anand Raj, P. (2008). "Development of 3 – D Optimal Surface for Operation Policies of A Multireservoir in Fuzzy Environment Using Genetic Algorithm for River Basin Development and Management", Water Resources Management, Springer, Vol. 22, 595-610 Impact Factor: 2.463, ISSN: 0920-4741 (Print)1573-1650 (Online)DOI 10.1007/s11269-007-9180-1

2. Regulwar, D.G., and Anand Raj, P (2009). "Multi-Objective Multi-reservoir optimization in Fuzzy Environment for River Sub Basin Development and Management" , Journal of Water Resources and Protection, Scientific Research, Vol.1, No.4, 271-280 Impact Factor: 0.41, **ISSN Print:** 1945-3094, **ISSN Online:** 1945-3108**DOI:** 10.4236/jwarp.2009.14033

3. Regulwar D.G. and Gurav J.B. (2010). "Fuzzy Approach Based Management Model for Irrigation Planning", Journal of Water Resources and Protection, Scientific Research, Vol.2, No.6, June 2010, pp. 545-554. Impact Factor: 0.41, **ISSN Print:** 1945-3094, **ISSN Online:** 1945-3108DOI: 10.4236/jwarp.2010.26062

4. Regulwar, D.G., Choudhari, S.A. and Anand Raj, P. (2010). "Differential evolution algorithm with application to optimal operation of multipurpose reservoir", Journal of Water Resources and Protection, Scientific Research, Vol.2, No.6, 560-568. Impact Factor: 0.41, **ISSN Print:** 1945-3094, **ISSN Online:** 1945-3108DOI: 10.4236/jwarp.2010.26064

5. Regulwar, D.G., and Kamodkar, R.U. (2010). "Derivation of Multipurpose Single Reservoir Release policies with Fuzzy Constraints", Journal of Water Resources and Protection, Scientific Research, Vol.2, No.12, 1028-1039,

Impact Factor: 0.41, **ISSN Print:** 1945-3094, **ISSN Online:** 1945-3108DOI: 10.4236/jwarp.2010.212123

6. Regulwar D.G. and Gurav J.B. (2011) "Irrigation Planning under Uncertainty - A Multi Objective Fuzzy Linear Programming Approach", Journal of Water Resources Management- An International Journal (Springer-Netherlands), Vol. 25, No.5, pp. 1387-1416 (doi 10.1007/ s11269-010-9750-5) Impact factor:2.463, ISSN: 0920-4741 (Print)1573-1650 (Online)(doi 10.1007/ s11269-010-9750-5)

7. Gurav, J. B. and Regulwar, D.G. (2012). "Multi Objective Sustainable Irrigation Planning with Decision Parameters and Decision Variables Fuzzy in Nature" Journal of Water Resources Management- An International Journal (Springer-Netherlands), Vol. 26, No.10, pp. 3005-3021 (DOI : 10.1007/s11269-012-0062-9) Impact factor:2.463, ISSN: 0920-4741 (Print)1573-1650 (Online)(DOI : 10.1007/s11269-012-0062-9)

8. Regulwar D.G. and Gurav J.B. (2012). "Sustainable Irrigation Planning with Imprecise Parameters under Fuzzy Environment", Journal of Water Resources Management- An International Journal (Springer-Netherlands), Vol. 26 No. 13, pp. 3871-3892 (doi:10.1007/11269-012-0109-y)Impact Factor: 2.463, ISSN: 0920-4741 (Print)1573-1650 (Online)(doi:10.1007/11269-012-0109-y)

9. Dabhade, P.D. and Regulwar, D.G. (2012). "Optimal Design of Water Supply Network by using Piping System Fluidflow"International Journal of Environmental Engineering and Management, Research India Publications, Vol.3, No.2 pp249-252

10. Debbarma Sentu and Regulwar, D.G. (2011). "Inflow Prediction by Different Neural Network Architectures: A Case Study",International Journal of Earth Sciences and Engineering, *CAFET-INNOVA TECHNICAL SOCIETY*, Volume 04, No 06 SPL, , pp 225-230, ISSN : 0974-5904

11. Kamodkar, R.U. and Regulwar, D.G. (2013). "Multipurpose Reservoir Operating Policies: A Fully Fuzzy Linear Programming Approach" , Journal of Agricultural Science and Technology (JAST), (University of Tarbiat Modares), Vol. 15,No 6, pp 1261-1274, November, 2013, Impact Factor:0.685, ISSN: 1680-7073

12. Regulwar D G and Gurav J B. (2014). "Irrigation Planning with Fuzzy Parameters-An Interactive Approach", Journal of Agricultural Science and Technology (JAST), (University of Tarbiat Modares), Vol. 16(5) September and October 2014: pp 1157-1172 Impact Factor: **0.685**, ISSN: 1680-7073

13. Regulwar D.G. and Gurav J.B. (2013). "Two-Phase Multi Objective Fuzzy Linear Programming Approach for Sustainable Irrigation Planning",Journal of Water Resources and Protection, Scientific Research,

Vol.5, No.6, 642-651, Impact Factor: 0.41, **ISSN Print:** 1945-3094, **ISSN Online:** 1945-3108DOI: 10.4236/jwarp.2013.56065

14. Regulwar D.G. and Pradhan V.S. (2013). "Irrigation Planning with Conjunctive use of Surface and Groundwater Using Fuzzy Resources", Journal of Water Resources and Protection, Scientific Research, Vol.5, No.8, 816-822 Impact Factor: 0.41, **ISSN Print:** 1945-3094, **ISSN Online:** 1945-3108DOI: 10.4236/jwarp.2013.58082

15. Kamodkar, R.U. and Regulwar, D.G. (2014). "Optimal Multiobjective Reservoir Operation With Fuzzy Decision Variables And Resources: A Compromise Approach", Journal of Hydro-environment Research, Elsevier, 8(4), 428-440(DOI: 10.1016/j.jher.2014.09.001), ISSN: 1570-6443) **Impact Factor: 3.018**(DOI: 10.1016/j.jher.2014.09.001)

16. Saraf V.R. and Regulwar D.G. (2014). "Statistical Downscaling of Temperature in Godavari River Sub-basin", International Journal of Scientific Engineering and Technology (ISSN:2277-1581), 18-20 December 2014, Special Issue pp 115-120

17. Nagargoje Sonali R, and D G Regulwar(2014),"Water and Sediment Yield Modeling for Micro Watershed",International Journal of Engineering Research, 18-20 December 2014, Issue Special 3 (ISSN online:2319-6890, Print: 2347-5013),pp 4-7

18. Patil Rutuja, Patel J.N., Yadav S.M., and Regulwar D.G. (2014),"Monthly Inflow Prediction using Wavelet Neural Network",International Journal of Engineering Research,18-20 December 2014, Issue Special 3 (ISSN online:2319-6890, Print: 2347-5013),pp 131-134

19. SinhaAbhishek P., and RegulwarD.G. (2015), " Watershed Modeling using QuantumGeographic Information System (QGIS)", International Journal of Pure andApplied Research in Engineering and Technology, 2015, Volume 3 (8), pp 287-295 (ISSN: 2319-507X)

20. Sinha Abhishek P. and Regulwar D.G. (2015), "Soil Erosion Estimation of Watershed using Quantum Geographic Information System (QGIS) and Universal Soil Loss Equation (USLE)", International Journal of Science & Research, April 2015 (ISSN Online: 2319-7064)

21. Nikam N.G. and Regulwar D.G. (2015), "Optimal Operation of Multipurpose Reservoir for Irrigation Planning with Conjunctive Use of Surface and Groundwater", Journal of Water Resources and Protection, Scientific Research, Vol.7, No.8, pp 636-646 Impact Factor: 0.41, **ISSN Print:** 1945-3094, **ISSN Online:** 1945-3108 DOI: 10.4236/jwarp.2015.78052

22. Sharma S. and Regulwar D. G., "Prediction of Evapotranspiration by Artificial Neural Network and Conventional Methods", International

Journal of Engineering Research (IJER), Vol. 5 (1), 2016, pp. 184-187 (ISSN:2319-6890(online),2347-5013(print))

23. Agrawal R. P. and Regulwar D. G., "Flood Analysis of Dhudhana River In Upper Godavari Basin Using HEC-RAS", International Journal of Engineering Research (IJER), Vol. 5 (1), 2016, pp. 188-191 (ISSN:2319-6890(online),2347-5013(print))

24. Saraf, V.R. and Regulwar, D.G. (2016) Assessment of Climate Change for Precipitation and Temperature Using Statistical Downscaling Methods in Upper Godavari River Basin, India. *Journal of Water Resource and Protection*, **8**, 31-45. http://dx.doi.org/10.4236/jwarp.2016.81004, **ISSN Print:** 1945-3094, **ISSN Online:** 1945-3108, Impact Factor: 0.41

25. Regulwar, D. G. and Ambhore, R. M. (2017) Site suitability analysis of soil and water conservation structures in watershed using GIS,*European Water* 57: 187-192

26. Ambhore, R.M. and Regulwar, D.G. (2017) Site Suitability Analysis of Soil and Water Conservation Structures in Sillod Watershed, Maharashtra, India using Geographic Information System Approach: A Case Study. *Journal of Water Resource Engineering and Management*, 4(2): 22–32

27. Ikhar P. R., Regulwar D. G., and Kamodkar R.U. (2018). "Optimal reservoir operation using soil and water assessment tool and genetic algorithm", *ISH Journal of Hydraulic Engineering,* Taylor & Francis, Volume 24 (2),pp 249-257ISSN 0971-5010 (Print), 2164-3040 (Online)
DOI: https://doi.org/10.1080/09715010.2017.1417754 (Scopus Publication)

28. Saraf V. R. and Regulwar D. G. (2018). "Impact of Climate Change on Runoff Generation in the Upper Godavari River Basin, India", Journal of Hazardous, Toxic, and Radioactive Waste, ASCE, 22(4), pp 04018021-1-9 **https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000416** (SCI Publication), Impact Factor: 2.1

29. Taji S. G. and Regulwar D. G. (2021). "LID Coupled Design of Drainage Model using GIS and SWMM", *ISH Journal of Hydraulic Engineering,* Taylor & Francis, Vol. 27, No. S1, 376-389, ISSN 0971-5010 (Print), 2164-3040 (Online)
DOI:http://dx.doi.org/10.1080/09715010.2019.1660919 (Scopus Publication)

30. Jyotiba B. Gurav, and D. G. Regulwar (2020). Multi-objective fuzzy optimization for sustainable irrigation planning, H2Open Journal Vol 3 No 1, IWA Publishing, 373-389. doi: 10.2166/h2oj.2020.032

31. Dabhade, P. D. and Regulwar, D. G. (2021) Multi-Reservoir Optimization for Maximization of Releases for Hydropower Generation Considering Environmental Flow. *Journal of Water Resource and Protection*, **13**, 931-944. doi: 10.4236/jwarp.2021.1312050, Impact Factor: 0.41

32. Dabhade, P. D. and Regulwar, D. G. (2021) Sustainable Multi-Objective Multi-Reservoir Optimization Considering Environmental Flow. *Journal of Water Resource and Protection*, **13**, 945-956. doi: 10.4236/jwarp.2021.1312051, Impact Factor: 0.41

33. Sumant A. Choudhari, D. G. Regulwar, P. Anand Raj (2023) Optimization of Reservoir System Operation using Fuzzy Set Theory, SSRG International Journal of Civil Engineering, Volume 10 Issue 6, 46-53, ISSN: 2348-8352 https://doi.org/10.14445/23488352/IJCE-V10I6P105

34. Saraf, P. and Regulwar, D. (2024) Land Use Land Cover Analysis for Godavari Basin in Maharashtra Using Geographical Information System and Remote Sensing. *Journal of Geographic Information System*, **16**, 21-31. doi: 10.4236/jgis.2024.161002

35. Saraf, Pallavi and Regulwar, Dattatray Gangaram (2024) *Integrated Hydrological Modeling of the Godavari River Basin in Maharashtra Using the SWAT Model: Streamflow Simulation and Analysis.* Journal of Water Resource and Protection, 16 (01). pp. 17-26. ISSN 1945-3094, Impact Factor: 0.41

36. Rahul Agrawal and D.G. Regulwar (2022) "Utilizing LINGO, basic linear programming for cropping patterns" IJSDR - International Journal of Science & Engineering Development Research (UGC Approved) ISSN:2455-2631

37. Rahul Agrawal and D.G. Regulwar (2023) "Optimization using LINGO for cropping pattern for the canal command area of Jayakwadi Reservoir", International Journal of Enhanced Research In Science Technology & Engineering, (UGC Approved) ISSN: 2319-7463

38. Ruchita D Raut, Dr. D. G. Regulwar (2023). "Design of Pipe Distribution Network for Daulatabad using Bentley's Watergems", International Journal of Research and Analytical Reviews (IJRAR), Volume 10, Issue 3, E-ISSN 2348-1269, P- ISSN 2349-5138

National Journal Papers:

1. Kamodkar R.U. and Regulwar D.G. (2010). "Multipurpose Single Reservoir Operation with Fuzzy Technological Constraints", *ISHJournal of Hydraulic Engineering,* Indian Society for Hydraulics (Taylor and Francis Group), Vol. 16, No.3, SP.1, 49-63, ISSN 0971-5010 (Print), 2164-3040 (Online)**DOI:**10.1080/09715010.2010.10515015

2. Gurav J.B. and Regulwar D.G. (2011). "Minimization of Cost of Cultivation using Interactive Decision Making under Fuzzy Environment" , *ISH Journal of Hydraulic Engineering,* Indian Society for Hydraulics (Taylor and Francis Group), Vol.17, No.2, 2011, pp. 30-42. (AvailableOnlineSince7 June

2012,ISSN 0971-5010 (Print), 2164-3040 (Online) DOI:10.1080/09715010.2011.10515043

3. Kamodkar, R.U. and Regulwar, D.G. (2013). "Modeling Multiobjective Reservoir Operation in Uncertain Parameter Environment" Journal of Indian Water Works Association, Vol.45, No.1, 27-35, Print *ISSN*: 0970-275X

4. Diksha D. Karanjeekar, Regulwar D.G. (2021). "Evaluation of Treated Wastewater Reuse Alternatives using Fuzzy-Multi Criteria Decision Making Techniques", Journal of Indian Association for Environmental Management, Vol. 41, No. 2, 15-20

5. Pachore A. B. and Regulwar D. G. (2021). "Meteorological Drought Analysis using Copula Function for Marathwada Region, Maharashtra State, India", *J. Indian Water Resource Society, Vol. 41, No. 2, 20-27.*

6. Bansode Pranav P. and Regulwar D. G. (2024). **"**Spectral Characterization and Detection of Sodium Sulphate in Water: Insights from Visible Spectrum Analysis**",** Journal of Indian Water Works Association, Vol.56, No.3, 27-35, Print *ISSN*: 0970-275X

International Conference:

1. Regulwar, D.G., and Deodhar, M.J. "Estimation of maximum flood discharge for successive dams" *Aspects of conflicts in reservoir development and management*, Department of Civil Engineering, City University, London, U.K., (1996), pp 693-701.

2. Regulwar, D.G., Ghangrekar, M.M., and P, Anand Raj. "Optimal reservoir operation for irrigation using Genetic Algorithms." *Advances in civil engineering, ACE 2002*, I.I.T., Kharagpur, India, (2002), Vol.1, pp 259-265.

3. Regulwar, D.G., Ghangrekar, M.M., and P, Anand Raj. "Joint Operation of Multiple Reservoir System-A Genetic Algorithm Approach", *Advanced modeling techniques for sustainable management of water resources*, AMTSMW-N.I.T., Warangal, India, (2004), pp 119-124.

4. Regulwar, D. G., and Anand Raj, P. "Optimal operation of multiple reservoir systems-A case study." *Hydrological Perspectives for Sustainable Development*, HYPESD-2005 Roorkee, India, (2005), pp 620-630.

5. K.S.Ustoorikar, and Regulwar, D. G. "Optimal reservoir operation for hydropower production via genetic algorithm." *Hydrological Perspectives for Sustainable Development*, HYPESD-2005, Roorkee, India, (2005), pp 609-619.

6. Regulwar, D. G., and Anand Raj, P. "Optimal Operation of Multireservoir and Development of 3-D Surface in Fuzzy Environment for River Basin

Development and Management." *EWRI ASCE - India 2006- An International Perspective on Environmental and Water Resources, New Delhi, India.* (2006), (Published in CD-ROM).

7. Choudhari, S. A., Regulwar, D. G., and Anand Raj, P. "Optimal Operation of reservoir using Differential Evolution." *EWRI ASCE- India 2006- An International Perspective on Environmental and Water Resources,* (2006) (Published in CD-ROM).

8. Gurav J. B. and Regulwar, D. G. "Optimal Operation of Reservoir under Deficit Irrigation." *6th International R & D Conference on Sustainable Development of Water and Energy Resources-Needs and Challenges, CBIP, 13-16 February 2007, Hotel Taj, Lucknow, Uttar Pradesh, India,* Feb 2007, Vol.-II, pp 873-887.

9. Pradhan, V.S. and Regulwar, D.G. "Determination of Optimal Operating Policies of a Single Multipurpose Reservoir by Fuzzy Linear Programming" *3rd International Conference on Hydrology and Watershed Management, 3-6 February, 2010, JNTU, Hyderabad, India* (2010), Vol. I, pp 498-506.

10. Kamodkar, R.U. and Regulwar, D.G. "Multipurpose Single Reservoir Operation under Fuzzy Environment with Fuzzy Resources and Fuzzy Technological Coefficients" *9th International Conference on Hydro-Science and Engineering (ICHE 2010), 2-5 August, 2010, IIT Madras, Chennai, India,* (2010), pp 735-745.

11. Debbarma Sentu and Regulwar, D.G. "Inflow Prediction by Different Neural Network Architectures: A Case Study" *International Conference on "Advances in Civil Engineering", K.L.University, Vaddeswaram, A.P.,India, 21-23 October, 2011*(2011), pp

12. Kamodkar, R.U. and Regulwar, D.G"Fuzzy Logic Based Approaches for Reservoir Operation Model for Measurement of Degree of Satisfaction and its Consequences" *International Conference on Recent Technologies*, (i-CORT 2012), 9-11 February, 2012, *IOK, Pune ,India,* C|1-5, pp .

13. Harshanand K. Ghuge and Regulwar D.G. "Artificial Neural Network Method for Estimation of Missing Data" International Conference on Recent Trends in engineering & Technology - (ICRTET'2013), *SNJB's Late Sau. K. B. Jain College Of Engineering, Chandwad, Maharashtra (India),* (2013), pp

14. Sonali Nagargoje and Regulwar D.G. "Delineation of water shed using ARC SWAT- A Case Study", Proceeding of International Conference on Advances in Engineering and Technology, ICAET-2013, 15-17 May 2013, SKN-SIT Lonawala Pune

15. **D.G.Regulwar** and J.B.Gurav (2013), Fuzzy Optimization for Irrigation Planning with Minimization of Cost of Cultivation, Proceedings of International Conference on 8th INTERNATIONAL CONFERENCE OF EWRA" PORTO, 26-29June 2013, pp 57-58

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2. Rahul Agrawal and D.G. Regulwar (2023) "Calculation of Surface Runoff using SWAT Model: Case Study" 55th IWWA Annual Convention – Technical Session Water Resource Management, Jan 20-22, 2023

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17. J.B.Gurav and D. G. Regulwar (2013) , Rainfall Runoff Modeling, Proceedings of National Conference on "Sustainable Water Resources Development and Management (SWARDAM-2013)", Govt. College of Engineering Aurangabad, pp 259-263

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Conferences/Workshop Organized:

Sr. No.	Organizer	Name of conference	Duration
1	Convener: Dr.D.G.Regulwar	National Conference on Sustainable Water Resources Development and Management (SWRDAM-2008), Govt. College of Engineering, Aurangabad, Maharashtra, India	13-14 June, 2008
2	Organizing Secretary: Dr.D.G.Regulwar	Organizing Secretary, National Conference on Environmental Pollution and Management, EPM-2011, Govt. College of Engineering, Aurangabad, Maharashtra, India	January 28-29, 2011
3	Dr.D.G.Regulwar and Dr. P.A.Sadgir	One Day Workshop on Intellectual Property and Patent Lifecycle Management (IPPLM-2012), Department of Civil Engineering, Govt. College of Engineering, Aurangabad under CEP and in association with Inrex IteS, Pune	February 18, 2012

4	Organizing Secretary: Dr.D.G.Regulwar	TEQIP- Workshop on "Patent and Copyright Policy of Government College of Engineering, Aurangabad", (Phase-I)	April 09, 2013
5	Organizing Secretary Dr.D.G.Regulwar	TEQIP-Two Days Workshop On "Impact of Climate Change on River Basin Management, ICCORIBAM-2013" during August 16-17, 2013	August 16-17, 2013
6	Organizing Secretary Dr.D.G.Regulwar	National Conference on Sustainable Water Resources Development and Management (SWARDAM-2013), Govt. College of Engineering, Aurangabad, Maharashtra, India	30 September-01 October, 2013
7	Organizing Secretary Dr. D.G.Regulwar	TEQIP-Two Days National Workshop on **"Innovations, Inventions, and Patents IIAP-2016",** in association with ISH Aurangabad Local Centre. Organizing at Department of Civil Engineering, Govt. College of Engineering, Aurangabad	1-2 February, 2016,
8	Convener: Dr D G Regulwar	**Post Graduate Colloquium – 2016 (PGC-2016)**	26-27 May 2016
9	Organizing Secretary Dr.D.G.Regulwar	3rdNational Conference on Sustainable Water Resources Development and Management (SWARDAM-2016), Govt. College of Engineering, Aurangabad, Maharashtra, India	4-5 July, 2016
10	Coordinator: Dr D G Regulwar	TEQIP one day workshop on "Pipe Network Analysis"	25 September, 2016
11	Organizing Secretary: Dr D G Regulwar	One Day National Workshop on **"Intellectual Property and Patent Lifecycle Management, IPPLM-2017** Sponsored by Technical Education Quality Improvement Programme (TEQIP Phase II).	**23 January**, **2017**
12	Coordinator: Dr D G Regulwar	Two Days National Workshop on Engineering Optimization and its Applications (EOAIA-2017) Sponsored by Technical Education	30-31 January, 2017

		Quality Improvement Programme (TEQIP Phase II).	
13	Convener: Dr. D. G. Regulwar	**Research Colloquium – 2017 (RC-2017)**	24-25February 2017
14	Organizing Secretary Dr.D.G.Regulwar	Online International Conference on "Sustainable Water Resources Development and Management (SWARDAM-2021)", Govt. College of Engineering, Aurangabad, Maharashtra, India	8 – 9 March 2021
15	Coordinator: Dr D G Regulwar	Online Workshop on "Data Analytics with Python Core Skills" during	**21 December 2020 – 4 January 2021**

ISTE/TEQIP-Short Term Training Programme Organized:

Sr.No.	Co-ordinator(s)	Topic	Duration
1	Dr. D G Regulwar	ISTE-STTP on "Engineering Optimization", EO-2010	28 June – 9 July 2010 Organized at Department of Civil Engineering, Govt. College of Engineering, Aurangabad.
2	Dr. D G Regulwar	ISTE-STTP on "Genetic Algorithm Neuro Fuzzy Applications in Engineering", GANEUFAE-2010	29 November – 10 December 2010 Organized at Department of Civil Engineering, Govt. College of Engineering, Aurangabad.
3	Dr. D G Regulwar and Dr. K A. Patil	ISTE-STTP on "Soft Computing Tools and its Applications in Engineering" , SOCTAPE-2011	20 June - 1 July, 2011 Organized at Department of Civil Engineering, Govt. College of Engineering, Aurangabad.
4	Dr.D.G.Regulwar	TEQIP-STTP on "Engineering Optimization and its applications" EOAIA-2012	25-29 June 2012, Organized at Department of Civil Engineering, Govt. College of Engineering, Aurangabad under CEP

5	Dr.D.G.Regulwar	TEQIP-STTP on "Genetic Algorithm Neuro Fuzzy Applications in Engineering, GANEUFAE-2012"	17-21 December 2012, Organized at Department of Civil Engineering, Govt. College of Engineering, Aurangabad
6	Dr.D.G.Regulwar	TEQIP-STTP on "Soft Computing Tools and its Applications in Engineering (SOCTAPE-2013)"	3-7 June, 2013, Organized at Department of Civil Engineering, Govt. College of Engineering, Aurangabad under CEP
7	Dr. D.G.Regulwar	TEQIP-STTP on "Research Methodology - Concepts and Tools (REMECOAT-2013)"	16-20 December, 2013 Organized at Department of Civil Engineering, Govt. College of Engineering, Aurangabad
8	Dr. D.G.Regulwar	TEQIP-STTP on "Introduction to Geomatics"	11-15 May, 2014, Organizing at Department of Civil Engineering, Govt. College of Engineering, Aurangabad
9	Dr. D.G.Regulwar	TEQIP-STTP on "Statistical Techniques for Data Analysis in Research" (STEDAR-2014)	09-13 June, 2014, Organizing at Department of Civil Engineering, Govt. College of Engineering, Aurangabad
10	Dr. D.G.Regulwar	TEQIP - STTP on **"Hydrological Modeling using Open Source Geospatial Techniques"**	27-31 October, 2015, Organizing at Department of Civil Engineering, Govt. College of Engineering, Aurangabad
11	Dr. D.G. Regulwar	one week TEQIP - STTP on **"Quantum GIS and its applications to Water Resources Engineering (QGISAWRE-2016)"**	22-26 October, 2016, Organizing at Department of Civil Engineering, Govt. College of Engineering, Aurangabad
12	Dr. D.G. Regulwar	One week TEQIP - STTP on **"Soft Computing Techniques in Engineering Applications", (SOCTEA-2017)**	**15-19 February, 2017**

13	Dr. D. G. Regulwar	One week TEQIP – STTPon**"Quantum GIS & QSWAT applications in Water Resources Engineering"**	3-7 March, 2018
14	Dr. D. G. Regulwar	TEQIP-TWO DAYS WORKSHOP On "Water Supply and Distribution Networks Systems (WSDNS-2018)"	10-11 March, 2018
15	Dr. D. G. Regulwar	Online **ONE WEEK TEQIP - SHORT TERM TRAINING PROGRAMME On "Advanced Technologies in Water Resources Management (ATWARM-2020)"**	**23-27 November, 2020**
16	Dr. D. G. Regulwar	AICTE Training and Learning (ATAL) Online FDP on "Engineering Optimization Techniques and its Applications (ENOTAA-2021)" during 14-18 June, 2021	14-18 June, 2021
17	Dr. D. G. Regulwar Dr. Anjana Ghule	AICTE Training and Learning (ATAL) Online FDP on "Analytical and Statistical Techniques for Applied Research and Innovation (ASTARI-2023)" during 04-09 December, 2023	04-09 December, 2023

Edited Books Published:

Sr.No.	Author(s)	Title of Edited Book	Publisher	Year
1	Dr.D.G.Regulwar Co-authors: Dr.U.J.Kahalekar, Dr. K.A.Patil and Dr. P.A.Sadgir	Proceedings of Sustainable Water Resources Development and Management-SWRDAM-2008	EXCEL India Publishers, New Delhi *ISBN: 978-81-906531-5-2*	2008
2	Dr. P.A.Sadgir Dr.U.J.Kahalekar, Prof. G.K.Patil Prof. A.M.Mokadam Dr.D.G.Regulwar Dr. K.A.Patil	Proceedings of Environmental Pollution and Management, EPM-2011	Chinmay Prakashan, Aurangabad *ISBN: 978-81-90495-8-8*	2011
3	Dr.D. G. Regulwar Dr. U. J. Kahalekar	Proceedings of Sustainable Water Resources Development and Management-SWARDAM-2013	EXCEL India Publishers, New Delhi *ISBN: 978-93-82880-63-9*	2013
4	Dr.D.G.Regulwar Co-authors: Dr. K.A.Patil and Dr. P.A.Sadgir	Proceedings of Sustainable Water Resources Development and Management-SWARDAM-2016	EXCEL India Publishers, New Delhi *ISBN: 978-93-85777-75-2*	2016
5	Dr. D. G. Regulwar Dr. U. J. Kahalekar Dr. R. V. Shetkar Dr. G. K. Patil	Proceedings of Online International Conference on "Sustainable Water Resources Development and Management (SWARDAM-2021)", Govt. College of Engineering, Aurangabad, Maharashtra, India	EXCEL India Publishers, New Delhi ISBN: 978-81-952843-2-0 (Paperback) e-Book: e-ISBN: 978-81-952843-9-9	2021

Expert Lectures Presented:

Sr. No	Topic	Organization	Duration
1	Keynote Address on "Sustainable Irrigation Planning under Fuzzy Environment"	International e-Conference on "Water Source Sustainability", Organised by Dept of Water Resources Development and Management, IIT Roorkee and IWRS, IIT Roorkee	19 June 2021
2	Multi-objective Multi-reservoir Optimization for River Sub Basin Development and Management	Online **ONE WEEK TEQIP - SHORT TERM TRAINING PROGRAMME On "Advanced Technologies in Water Resources Management (ATWARM-2020)", 23-27 November, 2020**	**26-11-2020**
3	The impact of land cover change on catchment hydrology: A case study	One week online International Training Programme on Water Resources Modeling, Centre for Advanced Agricultural Science and Technologty for Climate Smart Agriculture and Water Mangement, MPKV, Rahuri, 8-12 February 2021	12-02-2021
4	Types of Research and Research Design	One Week Online Research Methodology Workshop Organized by G. H. Raisoni College of Engineering and Management Wagholi, Pune during 29 June-04 July 2020	3-7-2020
5	Mathematical Modeling in Civil Engineering	One week online National Level FDP on "Mathematics: A Practical Approach in Science and Technology" during 28 June – 30 July Organized by the Department of Basic Sciences and Humanities, Deogiri Institute of Engineering and Management Studies, Aurangabad.	30 June 2020
6	Sustainable Water Resources Management	Webinar on "Present and Future Practices in Civil Engineering organized by Dept of Civil Engineering, Govt. College of Engineering, Jalgaon under TEQIP-III	8 June 2020
7	Applications of Fuzzy Logic in Civil Engineering	Webinar on "Applications of Fuzzy Logic in Civil Engineering" organized by Dept of Civil	6 June 2020

		Engineering, K.K.Wagh Institute of Engineering Education and Research Nashik on 6 June 2020	
8	Optimization Techniques	National Level Faculty Development Program (online) on "Research Methodology" at LSSBMS Padm. Dr. V. B. Kolte College of Engineering, Malkapur 26 - 30 of May 2020	29-5-2020
9	Introduction to fuzzy logic tool box with simple example and Introduction to GA tool box with simple example	One-week online training program on "Introduction to MATLAB and its Applications in Climate Smart Agriculture" during April 25-30, 2020 Organized by the Centre for Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM), Mahatma Phule Krushi Vidyapeeth, Rahuri	29 & 30 April, 2020
10	Genetic Algorithm and Fuzzy Analysis	AICTE-QIP-STC on Analytical Techniques for Applied Research organized by Dept. of Civil Engineering, SGGSIET, Nanded	20-2-2020
11	The Impact of Landcover Change on Catchment Hydrology: A Case Study of Nashik City, Maharashtra, India	AICTE - Faculty Development Programme (FDP) on "Applications of GPS and Remote Sensing in Civil Engineering" at SPCE Mumbai during 6-18 January 2020	17 January 2020
12	Introduction to Research Methodology	M.I.T. Engineering College, Aurangabad	29-3-2019
13	Research Methodology	Two Days State Level Workshop on "Research Methodology, Indian Patent Drafting and Filling Procedure". Organized at JSPM's Imperial College of Engineering and Research Wagholi, Pune, in Association Savitribai Phule Pune University (SPPU)	11-1-2019

14	Inventions, Innovations and Patents	Three days National Level Workshop on "Inventions, Innovations and Patents", Dept of Computer Engg, D.N.Patel College of Engineering, Shahada, Dist. Nandurbar, 14-16 September 2018	15-16 September 2018
15	Watershed Management	Department of Civil Engineering, SGGSIE&T, Nanded	14-8-2018
16	Outcome Based Education	M.I.T. Engineering College, Aurangabad	9-7-2018
17	Introduction to Genetic Algorithm and its Applications Genetic Algorithm Application on Reservoir Operation under Fuzzy Environment	TEQIP-III STTP on "APPLICATION OF SOFT COMPUTING TECHNIQUES IN CIVIL ENGINEERING", Department of Civil Engineering, Sardar Vallabhbhai National Institute of Technology, Surat during 12-16 March 2018	13-3-2018
18	Engineering Optimization and its Applications	K.K.Wagh Institute of Engineering Education and Research, Nashik	27-2-2018
19	Patents filing, Registration (IPR)	DTE sponsored Short Term Course on "Research Methodology and Optimization Techniques" (RMOT-2018) 30th January – 3rd February, 2018, Government Polytechnic, Nashik	31-1-2018
20	Genetic Algorithm	Department of Civil Engineering, SPPU Sponsored Two days workshop on "Application of Soft Computing Techniques in Civil Engineering", STES Sinhgad Institute of Technology & Science, Narhe, Pune	21-12-2017
21	Introduction to Optimization and Fuzzy Logic and its Application in Waste Management	Present Scenario of Treatment of Waste in India: Challenges, Issues and New Techniques of Treatment, Sanjivani Rural Education Society's COLLEGE OF ENGINEERING, KOPARGAON, Tal. Kopargaon, Dist. Ahmednagar 423603	22-11-2017

22	Research Methodology	One Week FDP on "Research Methodology", Tatyasaheb Kore Institute of Engineering & Technology, Warananagar	29-5-2017
23	Keynote Speech on "Engineering Optimization and its Applications"	3 days International Conference on Recent Trends in Civil Engineering, Science and Management, (ICCSM-17), during 24-26 March 2017, Guru Gobind Singh College of Engineering & Research Center, Nashik	24-3-2017
24	Integrated Watershed Management	MSBTE Sponsored FDP on "Watershed Management" Organized by Dept of Civil Engg, P. L. Govt. Polytechnic, Latur	11 January 2017
25	Basics of Optimization, Fuzzy Logic	State Level Two Days Workshop on „Optimization Techniques for Engineering Applications" at S.B. Patil, COE, and Indapur 23-24 December 2016	23-12-2016
26	Keynote address on " Matlab tools and its applications for soft computing"	One week STTP on "Aspects of MATLAB Tools in Communication, control and Signal Processing with Simulink" organized at Dept of E&TC, JNEC, Aurangabad	28 November 2016
27	Research Methodology & Soft computing applications for research	One day workshop on "Research Methodology" (Under lead College activity, Shivaji University, Kolhapur) Organized by Dr. J. J. Magdum College of Engineering, Jaysingpur	20th October 2016
28	Modeling and Soft computing tools in WRE	h Induction Training Programme for direct recruit (MSE Class – I) Officers of Water Resources Department of Govt. of Maharashtra during 1st Aug. 2016 to 26th Aug. 2016, WALMI Aurangabad	19-8-2016
29	Soft Computing tools in WRE (Fuzzy logic and ANN)	Induction Training Programme for direct recruit (MSE Class – I) Officers of Water Resources Department of Govt. of Maharashtra during 4th July 2016 to 30th July 2016, WALMI Aurangabad	15-7-2016
30	Introduction to Optimization, Data	One Week STTP on "Design of Experiment & Optimization Techniques" Organized by DEPARTMENT	10-5-2016, 11-5-2016

	Analysis, Fuzzy Logic, Genetic Algorithm	OF MECHANICAL ENGINEERING, M.S.P. MANDAL'S DEOGIRI INSTITUTE OF ENGINEERING AND MANAGEMENT STUDIES, AURANGABAD, 9-13 May 2016	
31	Research Methodology	Sanjivani Rural Education Society's COLLEGE OF ENGINEERING, KOPARGAON, Tal. Kopargaon, Dist. Ahmednagar 423603	9-5-2016
32	Innovations & Inventions in Engineering and Case Study	Two Days National Workshopon "Innovations, Inventions, and Patents IIAP-2016",Sponsored by TEQIP Phase II and in association with ISH Aurangabad Local Centre at Government College of Engineering Aurangabad	1-2 February, 2016
33	Mathematical Modeling Concepts and Case Studies	"Two Days Workshop on Mathematical Modeling in Engineering Projects", Computer Engineering Department, Sandip Institute of engineering and Management (SIEM), Nashik, 18-19 January 2016	19-1-2016
34	Introduction to Research Methodology, Optimization Techniques, Fuzzy Logic, Genetic Algorithms, Thesis Writing, Ethics in research and publishing	Two days National Level Workshop on "Research Methodology: Concepts and Tools", Dept of Computer Engg and IT, D.N.Patel College of Engineering, Shahada, Dist. Nandurbar	16-17 January, 2016
35	Introduction to Research Methodology, Thesis Writing, Journal Paper Writing	Two days workshop on "Research Methodology", College of Engineering, Kashti, Dist. Ahmednagar	30-12-2015
36	Techniques, principles and ethics in research and publishing	Workshop on "Principles of Research Methods", JNEC Aurangabad	29-12-2015
37	Optimization Techniques, Introduction to Fuzzy Logic and Genetic Algorithm, GA-Fuzzy Modeling	IETE Certified FDP on "Soft Computing-ANN and Fuzzy Applications in Engineering, Dept of E&TC, Deogiri Institute of Engineering and Management Studies	30 November – 3 December 2015

38	Introduction to Research Methodology, Optimization Techniques, Fuzzy Logic, Genetic Algorithms, Thesis Writing	Two Week STTP on "Advanced Research Thrust Areas in Engineering Science" from 21-11-2015 to 30-11-2015 at Govt. College of Engineering Karad	23-24 November 2015
39	Intellectual Property Rights & Innovation in Engineering	Expert Lecture at JNEC Aurangabad	9-10-2015
40	Hydrological Modeling, Systems Approach to Civil Engineering	K.K.Wagh College of Engineering, Nashik	20-9-2015
41	Innovation in Engineering and Case Study	Workshop on "Intellectual Property Rights & Innovation in Engineering", JNEC Aurangabad	12-9-2015
42	Smart Cities: Cities of Tomorrow	Two days Seminar on "Smart City", P.E.S. College of Engineering Aurangabad	28-29 August 2015
43	Research Methodology	Two days FDP for Teaching Staff, Shreeyash College of Engineering & Technology, Aurangabad	9-10 July 2015
44	Applications of Mathematics in Civil Engineering	One Week Workshop on "Applications of Engineering Mathematics"at SANDIP INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE Nashik	**20th – 24th April, 2015**
45	Correlation and Regression Analysis	TEQIP-STTP on Recent Advances in Traffic Engineering and Transportation Planning (RATE&TP) at Department of Civil Engineering, Malnad College of Engineering, Hassan Karnataka	12-12-2014
46	Introduction to research, Overview of research and Formulating Problem statement	Eight Days Workshop on "Research Methodology and IPR" 17th November – 24th November, 2014 In collaboration with BCUD, The Savitribai Phule Pune University, Pune at SANDIP INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE Nashik	17-11-2014
47	Remote Sensing & GIS Applications in Hydrology	Workshop on "Introduction to Remote Sensing", JNEC, Aurangabad	10-7-2014

48	Data Analysis	TEQIP-STTP on "Statistical Techniques for Data Analysis in Research (STEDAR-2014)" during 09-13 June, 2014 at Govt. College of Engineering, Aurangabad	11-6-2014
49	Skewness and Kurtosis, Probability and Theoretical Distributions	TEQIP-STTP on "Computational and Statistical Methods Applied in Engineering" during 7-11 July, 2014 at Dept. of Civil Engg., Govt. College of Engineering, Jalgaon	9-7-2014
50	Introduction to Optimization Fuzzy Logic and its applications	Department of Civil Engineering, Govt. College of Engineering, **Jalgaon.** (TEQIP-STTP on Mathematical & Statistical Approaches in Engineering Applications (MSAEA-2013) 26-30 December 2013."	December 27, 2013
51	Research Design/Literature Review Introduction to Optimization Dynamic Programming Genetic Algorithm and its applications & Fuzzy Logic and its applications	Department of Civil Engineering, Govt. College of Engineering, Aurangabad. (TEQIP-STTP on "Research Methodology - Concepts and Tools (REMECOAT-2013)"	16-20 December, 2013
52	Genetic Algorithm and its applications & Fuzzy Logic and its applications	Department of Civil Engineering, Govt. College of Engineering, Karad. (TEQIP-STTP on "New Trends in Hydroelectric power project, 9-13 December 2013"	December 11, 2013
53	Genetic Algorithm and its applications	Department of Civil Engineering, SGSITS, Indore.	October 26, 2013
54	a) Fuzzy linear programming and its application in reservoir operation (1.5 hrs) b) Genetic Algorithm and its application in reservoir operation. (1.5 hrs).	Department of Civil Engineering, SVNIT, Surat (TEQIP- One week short term training programme on Hydraulic and Hydrologic Modelling: Concepts and Applications July 1-5, 2013	July 4, 2013
55	Genetic Algorithm and its applications & Fuzzy Logic and its applications	Department of Civil Engineering, Govt. College of Engineering, Aurangabad.	3-7 June, 2013

		(TEQIP-STTP on "Soft Computing Tools and its Applications in Engineering (SOCTAPE-2013)"	
56	Soft Computing	Conference on "Advanced Computational Techniques, ACT-2013" at SKN-SIT, Lonavala, Pune	March 29-30, 2013
57	Fuzzy Logic and Genetic Algorithm Applications	Computer Department, JNEC, Aurangabad	22-23 March, 2013
58	Genetic Algorithm and its applications & Fuzzy Logic and its applications	Department of Civil Engineering, SGGSI E&T Nanded (TEQIP-STTP on "Analytical Techniques in Applied Research"	January 22, 2013
59	Genetic Algorithm and its applications & Fuzzy Logic and its applications	Department of Civil Engineering, Govt. College of Engineering, Aurangabad. (TEQIP-STTP on "Genetic Algorithm Neuro Fuzzy Applications in Engineering, GANEUFAE-2012")	17-21 December 2012
60	Introduction to Optimization and Linear Programming	Department of Civil Engineering, Govt. College of Engineering, Aurangabad. (TEQIP-STTP on "Engineering Optimization and its Applications, EOAIA-2012")	25-29 June 2012
61	Linear programming, Dynamic Programming, and Fuzzy Logic	Department of Mechanical Engineering, Govt. College of Engineering, Aurangabad. (TEQIP-STTP on "Engineering Optimization and its Applications, EOAIA-2012")	25-29 June 2012
62	Applications of Engineering Mathematics in Civil Engineering	One day Seminar on "Applications of Engineering Mathematics in Various Engineering Disciplines" Organized at M.I.T., Aurangabad	11-2-2012
63	Linear programming, Dynamic Programming, and Fuzzy Logic	Department of Mechanical Engineering, Govt. College of Engineering, Aurangabad. (ISTE-STTP on Engineering Optimization Techniques and its Applications in Research (EOTAR-2012))	2-1-2012 to 12-1-2012
64	Introduction to Genetic Algorithm and its applications	Department of Civil Engineering, Govt. College of Engineering, Aurangabad. (ISTE-STTP on Soft Computing Tools and its Applications in Engineering (SOCTAPE-2011))	20 June - 1 July, 2011

65	Introduction to Optimization and Linear Programming	Department of Civil Engineering, Govt. College of Engineering, Aurangabad. (ISTE-STTP on "Engineering Optimization, EO-2010")	28 June – 9 July 2010
66	Genetic Algorithm and its applications	Department of Civil Engineering, Govt. College of Engineering, Aurangabad. (ISTE-STTP on "Genetic Algorithm Neuro Fuzzy Applications in Engineering, GANEUFAE-2010")	29 November – 10 December 2010
67	Fundamentals and Applications of Genetic Algorithm in Irrigation Planning and Reservoir Operation	Amrutvahini College of Engineering Sangamner. (Two days State Level Workshop on Applications of Neural Network, Fuzzy and Genetic Algorithm in Water Resources and Environmental Engineering, FANGA-10)	28-29 January 2010
68	Dams and Spillways	Regional Training Centre, Water Resources Department, WALMI, Aurangabad	29-4-2010
69	Use of Hydrological Data in Water Resources Systems Optimization	HDUG workshop at Irrigation Department, Jalna	21 December, 2009
70	Developments in Reservoir Operation	Pravara Rural Engineering College, Loni, Maharashtra, India. (Two-day work shop on Techniques in Water Management)	25-26 September, 2008
71	Keynote address on: Emerging Trends In Civil Engineering" in Pravara International Conference on Emerging trends in engineering	Pravara Rural Engineering College, Loni, Maharashtra, India.	20-22, December, 2008
72	Standard Draft Practices for Project Report	Govt. Polytechnic, Aurangabad	2-8-2008
73	Micro-Irrigaion	Govt. Polytechnic, Aurangabad (State level workshop on Micro Irrigation sponsored by MSBTE)	2-1-2007 to 6-1-2007
74	Watershed Management	Maharashtra Institute of Technology, Aurangabad	November, 2010

Short Term Training Programmes Participated:

Sr. No.	Topic	Organized at	Duration	Weeks
1	Specialist course on "Reservoir Sedimentation"	V.R.C.E., Nagpur and Indian Society for Hydraulics	27-29 October 1994.	
2	ISTE summer school programme on "Computer Applications"	Govt. Polytechnic, Solapur	15-04-1996 to 12-06-1996	8
3	"Industrial Training of Teacher XV"	Govt. Polytechnic, Nashik under World Bank Project Assistance Scheme.	04-05-1998 to 24-07-1998	12
4	ISTE short term training programme on " Advance course on Water shed management"	Govt. College of Engineering, Aurangabad	3-15 January 2000	2
5	QIP Short term course on "Advanced IT Applications to Civil Engineering"	Indian Institute of Technology, Kharagpur	4-15 December 2000.	2
6	ISTE short term training programme on "Neuro-Fuzzy applications in Civil Engineering"	Regional Engineering College, Warangal (A.P.)	June11-23, 2001	2
7	QIP Short term course on "Advanced Technologies in Water Resources & Environmental Management"	Indian Institute of Technology, Powai, Mumbai	6-10 May 2002.	1
8	ISTE short term training programme on "Environmental Pollution Control"	Govt. College of Engineering, Aurangabad	July 14-25, 2003.	2
9	(TEQIP) Training Programme on "Management Capacity Building"	Govt. College of Engineering, Aurangabad	19-22 June 2007	
10	(TEQIP) Training Programme for staff on "Communication Skills"	Govt. College of Engineering, Aurangabad	18-19 July 2007	
11	(TEQIP) Training Programme for staff on "Developing and Maintaining Question Bank"	Govt. College of Engineering, Aurangabad	20-21 July 2007	
12	(TEQIP) and Asian Institute of Quality Management, Pune Training Programme for staff on	Govt. College of Engineering, Aurangabad	14-20 January 2008.	1

	"Managing & Functioning in an Autonomous Institute"			
13	(TEQIP) and Asian Institute of Quality Management, Pune Training Programme for staff on "Efficient Usage of Laboratory and Laboratory Equipment for Students"	Govt. College of Engineering, Aurangabad	21-27 January 2008.	1
14	ISTE short term training programme on "Engineering Optimization, EO-2010"	Govt. College of Engineering, Aurangabad	28 June-9 July, 2010	2
15	ISTE short term training programme on "Genetic Algorithm Neuro Fuzzy Applications in Engineering, GANEUFAE-2010"	Govt. College of Engineering, Aurangabad	29 November – 10 December 2010	2
16	TEQIP Short Term Training Programme on "Pedagogy"	Govt. College of Engineering, Aurangabad	16-5-2011 to 21-5-2011	1
17	ISTE short term training programme on "Soft Computing Tools and its Applications in Engineering , SOCTAPE-2011"	Govt. College of Engineering, Aurangabad	20 June - 1 July, 2011	2
18	ISTE-STTP on "Skill Matrix Enhancement Effective Teaching Learning"	Govt. College of Engineering, Aurangabad	November 28-December 9, 2011	2
19	ReliaSoft's Reliability Engineering Education	Govt Polytechnic Aurangabad	March 5-9, 2012	1
20	TEQIP-STTP on "Engineering Optimization and its applications" EOAIA-2012	Govt. College of Engineering, Aurangabad	25-29 June 2012	1
21	National Workshop on Advance Soft Computing Techniques in Hydrology and its Applications (ASCTHA-2012)	National Institute of Hydrology, Roorkee	29 OCTOBER – 2 NOVEMBER, 2012	1
22	TEQIP-STTP on "Genetic Algorithm Neuro Fuzzy Applications in Engineering, GANEUFAE-2012"	Govt. College of Engineering, Aurangabad	17-21 December 2013	1

23	One Week STTP on Advanced Engineering Optimization through Intelligent Techniques	Department of Mech Engineering SVNIT, Surat	7-11 January 2013	1
24	2nd High Noon Spring School sponsored by UKaid DFID	Department of Civil Engineering IIT, Delhi	4th to 7th February 2013	
25	TEQIP-STTP on "Soft Computing Tools and its Applications in Engineering (SOCTAPE-2013)"	Department of Civil Engineering, Govt. College of Engineering, Aurangabad	3-7 June, 2013	1
26	QIP-Short Term Course on "Water Resources Management Studies using Geospatial Techniques and Numerical Modeling"	Department of Civil Engineering, IIT, Mumbai	July 08-12, 2013	1
27	TEQIP-STTP on "Research Methodology - Concepts and Tools (REMECOAT-2013)"	Department of Civil Engineering, Govt. College of Engineering, Aurangabad	16-20 December, 2013	1
28	Introductory and Advanced SWAT Workshop	Department of Civil Engineering, IIT Madras, Chennai.	30-12-2013 to 3-01-2014	
29	Training Course on Advanced Hydrologic Modeling	Deltaic Regional Centre, National Institute of Hydrology, Kakinada-533 003, AP.	February 24 - 28, 2014	1
30	TEQIP-STTP on "Statistical Techniques for Data Analysis in Research" (STEDAR-2014)	Department of Civil Engineering, Govt. College of Engineering, Aurangabad	09-13 June, 2014	1
31	QIP-Short Term Course on "Hydro-climatic Modeling and Climate Change Impacts Assessment"	Department of Civil Engineering, IIT, Mumbai	30 June – 4 July 2014	1
32	TEQIP-STTP on "Hydrological Modeling using Open Source Geospatial Techniques"	Department of Civil Engineering, Govt. College of Engineering, Aurangabad	27-31 October, 2015	1
33	AICTE-Short Term Course on "Introduction to Soil and Water	Dept of Civil Engg, Indian Institute of Technology Madras, Chennai	4-9 January, 2016	1

	Assessment Tool using Open Source Software:QGIS & QSWAT"			
34	GIAN international course cum workshop on "Optimization Methods to Groundwater Resources Management"	Dept of Civil Engg, Indian Institute of Technology Guwahati, India	7-11 March 2016	1
35	FDP on "Engineering Exploration"	Centre for Engineering Education Research, KLE Technological University, B.V.B. Campus, Hubballi	14-18 May, 2018	1
36	TEQIP sponsored short course on "Sustainable Water Resources Management under Changing Climate"	Conducted at Discipline of Civil Engineering, IIT Indore	28 May 2018 to 02 June 2018	1
37	TEQIP-III FDP on "Training the Trainers for the course: Engineering Exploration"	Dept. of Electronics and Telecommunications, Govt. College of Engineering, Aurangabad	3-7 August 2018	1
38	Online One Week FDP on "Computational Tools and Techniques: MATLAB, ANSYS" under TEQIP III	Jointly Organised by Government College of Engineering, Karad, MS and Rajkiya Engineering College, Azamgarh, UP	27 April - 1 May, 2020	1
39	Online Training Programme on "Introduction to Python Programming and its Applications in Climate Smart Agriculture"	Centre for Advanced Agricultural Science and Technology (CAAST) for Climate Smart Agriculture and Water Management (CSAWM), Mahatma Phule Krushi Vidyapeeth, Rahuri	7-10 May 2020	
40	One week online Faculty Development Program on "OUTCOME BASED EDUCATION: A STEP TOWARDS EXCELLENCE" under Margdarshan Scheme of AICTE, New Delhi	Government College of Engineering Karad	11-15 May 2020	1
41	One Week Online Faculty Development Program on "Machine Learning and Deep Learning Applications in Engineering & Science" under TEQIP-III	Dept of Civil Engineering, Govt. College of Engineering, Karad	16th May 2020 to 20th May 2020	1

Conference / Seminar/Workshop Participated:

Sr. No	Topic	Organized at	Duration
1	First state level ISTE convention, Maharashtra-Goa section	W.C.E., Sangli,	1996
2	27th Annual convention of ISTE	M.A.C.T., Bhopal	1997
3	National seminar on Teacher vacancies in degree and diploma level technical institutions-Causes and possible remedial measures	Govt. Engg., College, Aurangabad	1998
4	Second state level ISTE convention, Maharashtra-Goa section	J.N.E.C., Aurangabad	1998
5	National Seminar on Groundwater salinity, Water resource development and management of Purna alluvial basin	Govt. College of Engineering, Amravati	1999
6	National Seminar on Financing, Design, Construction and Operation of Highways, FDCOH-2002	Govt. College of Engineering, Aurangabad, Maharashtra, India	2002
7	International Conference on Advances in civil engineering, ACE 2002	I.I.T., Kharagpur, India	2002
8	International Conference on Advanced modeling techniques for sustainable management of water resources, AMTSMW- 2004	N.I.T., Warangal, India	2004
9	One day work shop on "Rain Water Harvesting	Govt. College of Engineering, Aurangabad	22-8-2005
10	One day work shop on "Solid Waste Management"	Govt. College of Engineering, Aurangabad	31-1-2006
11	One day work shop on "Supervisory Development and Stress Management"	Govt. College of Engineering, Aurangabad	01-4-2006

12	One day work shop on "Designing Student Conducted Studies"	Govt. College of Engineering, Aurangabad	30-7-2006
13	National Conference on Sustainable Water Resources Development and Management (SWRDAM-2008)	Govt. College of Engineering, Aurangabad, Maharashtra, India	June 13-14, 2008
14	National Conference on Environment Pollution and Management, EPM-2011	Government College of Engg, Aurangabad	Jan 28-29, 2011
15	One Day Workshop on Intellectual Property and Patent Lifecycle Management (IPPLM-2012), under CEP and in association with Inrex ITeS, Pune	Department of Civil Engineering, Govt. College of Engineering, Aurangabad	February 18, 2012
16	International Conference on "Current Trends and Challenges in Management, Engineering, Computer Application and Technology (ICCTCMECAT, 2012)	Deogiri College Aurangabad	23-25 March 2012
17	One Days Workshop on "Self Management & Team Management for Success-Breaking the Barriers"	Govt. College of Engineering, Aurangabad	18th September 2012
18	National Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering, HYDRO-2012	IIT, Bombay, Mumbai, India	7-8 December, 2012
19	Two Days Workshop on "Effective Administration"	Department of Civil Engineering, Govt. College of Engineering, Aurangabad	15-16 February 2013
20	2nd International Conference on "Recent Trends in Engineering & Technology" (ICRTET-2013)	SNJB'S College of Engineering Chandwad, Dist: Nashik	22-24 February, 2013
21	National Conference on Sustainable Water Resources Planning, Management and Impact of Climate Change (SWRM-2013)	BITS –Pilani, Hyderabad Campus	April 5-6, 2013
22	International Conference on Advances in Engineering and Technology, ICAET-2013	SKN-SIT Lonawala Pune	15-17 May 2013

23	Two Days Workshop On "Impact of Climate Change on River Basin Management, ICCORIBAM-2013"	Department of Civil Engineering, Govt. College of Engineering, Aurangabad	August 16-17, 2013
24	International Conference on 35th IAHR World Congress	Century City International Convention Center, 88, Century City Boulevard, Chengdu, Sichuan, 610041 China	September 8 to 13, 2013
25	National Conference on Sustainable Water Resources Development and Management (SWARDAM-2013)	Department of Civil Engineering, Govt. College of Engineering, Aurangabad	30 September-01 October, 2013
26	International Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering, HYDRO-2013	IIT Madras, Chennai, India	4-6 December, 2013
27	Symposium on Outstanding Issues for Hydrological Research in India	Department of Civil Engineering, NITK, Surathkal	October 21, 2013
28	International Conference on "Science and Technology (ICST-2K14)"	S.B.Patil College of Engineering Indapur, Pune	21-22 February, 2014
29	3rd International Conference on "Recent Trends in Engineering & Technology" (ICRTET-2014)	SNJB'S College of Engineering Chandwad, Dist: Nashik	28-30 March, 2014
30	Workshop on "Scientific Writing"	Indian Institute of Technology, Indore	July 11-12, 2014
31	One day Workshop on "Avenues for Research in the Areas of Hydrology, Water Resources and Climate Change Impacts"	Dept. of Civil Engg, SVNIT, Surat	July 14, 2014
32	TEQIP Workshop: Collaborative Research in Water Sector	TEQIP-KITE of IIT Bombay	September 12, 2014
33	National Level Workshop on "Scientometric Tools and Techniques for Research Analysis" (STTRA 2014)	K. L. University Greenfields, Vaddeswaram – 522502 Guntur District, Andhra Pradesh	September 27-28, 2014

34	International Conference HYDRO 2014 INTERNATIONAL	Maulana Azad National Institute of Technology, Bhopal	December 18-20, 2014
35	International Conference and workshop on Modeling Tools for Sustainable Water Resources Management , MTSWRM	Department of Civil Engineering, Indian Institute of Technology, Hyderabad	December 28-29, 2014
36	Workshop on "Outcome Based Education and NBA"	Govt. College of Engineering, Aurangabad (under TEQIP-II)	31st January- 1st February 2015
37	International Conference 36th IAHR World Congress	World Forum Convention Center Delft – The Hague, The Netherlands	28 June-3 July, 2015
38	Two days workshop on "Outcomes-Based Education"	BMS College of Engineering, Bengaluru.	August 2 to 3, 2015
39	ISH Specialty Conference, National Conference on Climate Change and Sustainable Water Resources Management (CSWM-2015)	National Institute of Technology, Warangal	3-5 September 2015
40	Half day workshop on "Indo-Japan Workshop for Rainfall Disaster and Human Adaptability"	Dept of Civil Engg, Indian Institute of Technology Guwahati, India	9th March, 2016
41	CEP course on "Technology-Driven Innovation and Entrepreneurship"	Conducted at Govt. College of Engineering Aurangabad and organized by I.I.T. Bombay, Powai, Mumbai	8-12 February 2017
42	CEP course on "Rainwater Harvesting & Sustainable Water Management"	Dept of Civil Engg, I.I.T. Bombay, Powai, Mumbai.	4-5 March 2017
43	3 – day workshop on "Analysis and Design of Water Distribution Networks"	Dept of Civil Engineering N.I.T. Warangal	16-18 March 2017
44	National Conference on "Environment Pollution Control and Management-EPCM 2019"	Dept. of Civil Engineering, College of Engineering Pune	1-2 March 2019
45	HYDRO-2019 an International Conference	Dept of Civil Engineering, University College of Engineering, Osmania University, Hyderabad	18-20 December 2019

46	Online workshop on "Intellectual Property Rights"	Pandit Deendayal Petroleum University Dehradun	10-11 April 2020

Other information

- Conducted M.Tech. (Water Resources Engineering) viva-voce (Online Presentation) of 5 students, 2018-20 Batch on 29-6-2020 of Dept of Civil Engineering, National Institute of Technology, Jamshedpur, Jharkhand

- Evaluated and examined Ph.D thesis of Shri. **Ranganath L. R. on 31-10-2020 on the topic "**Assessment of Coastal Sedimentation Pattern along the West Coast of India" **at Department of Civil Engineering, U.V.C.E., Jnana Bharathi Campus, Banglore Univesity, Bengaluru.**

- **Evaluated Ph.D. thesis of** MADDALI SATYA DURGA HIMA BINDU on the topic "Optimization of Disinfectant Dosage in Water Distribution Network of Intermittent Supply with Booster Chlorination", K. L. University, Vaddeswaram-522502 (A.P.) on 30-5-2020

- Evaluated and examined Ph.D. thesis on 7-6-2019 of Mr. Vignesh Rajkumar L. on the topic CLIMATE CHANGE INDUCED DROUGHT: VULNERABILITY ASSESSMENT AND FARMERS' PRIORITIZATION OF CLIMATE SMART AGRICULTURAL PRACTICES FOR VAIGAI BASIN, INDIA, at Faculty of Civil Engineering, Anna University, Chennai.

- Evaluated and examined Ph.D. thesis of Mr. Sarang V. Paranjpe **on the topic "Spatial Correlation of Surface and Sub-surface Hydrological Parameters for Basin Development", Nagpur University, Nagpur on 11-09-2020**

- Worked as BOS member, Civil Engineering, University of Pune & VIIT Pune (Ex)

- BoS Member, Civil Engineering, University of Mumbai and MGM University

- **Research guidance for PhD: 08 Completed, and 05 ongoing**

- Guided 60 students for M. Tech. Dissertations.

- International Advisory Committee Member, International Conference on "Smart Innovations in Design, Environment, Management, Planning and Computing (ICSIDEMPC-2020)", 30-31 October 2020 at Jawaharlal Nehru Engineering College, Aurangabad (MGM University)

- Technical Advisory Committee member, National Conference (online) on Advanced Modelling and Innovations in Water Resources Engineering (AMIWRE-2020), during 19-20 September, 2020 Organized by Dept of Civil Engineering, National Institute of Technology, Jamshedpur, Jharkhand

- Session Chair, Fourth International Conference on Advances in Civil and Structural Engineering (ICACSE-2020), 28-30 May 2020, Dept of Civil Engineering, Government College of Engineering, Karad

- Technical Committee Member, ISH Specialty conference, *National Conference on Climate Change and Sustainable Water Resources Management (CSWM-2015)* during 3-5 September 2015 at N.I.T. Warangal, Andhra Pradesh
- Technical Committee Member, 2nd National conference on "Innovations in Civil Engineering", NCICE-2016 during 8-9 January 2016 at Govt. College of Engineering Karad
- Advisor of 5th International Conference on "Recent Trends in Engineering and Technology" ICRTET-2015, 28-30 April 2016 at SNJB College of Engineering, Chandwad
- Advisor of 4nd International Conference on "Recent Trends in Engineering and Technology" ICRTET-2015, 2-4 July 2015 at SNJB College of Engineering, Chandwad
- Advisor of 3rd International Conference on Recent Trends in Engineering and Technology 28-30 March 2014 at SNJB College of Engineering, Chandwad
- Advisor of 2nd International Conference on Recent Trends in Engineering and Technology 22-24 February 2013 at SNJB College of Engineering, Chandwad
- Session Chair, National conference on HYDRO-2012 at IIT, Mumbai during 7-8 December 2012.
- Session Chair, National Conference on Sustainable Water Resources Planning, Management and Impact of Climate Change, April 5-6, 2013, BITS –Pilani, Hyderabad Campus
- Session Co-Chair, International Conference on Advances in Engineering and Technology (ICAET-2013), 15-17 May, 2013, SKNSITS, Lonavala, Pune
- Worked as expert in Ph.d. interviews, University of Pune, Sinhagad Research Centre
- Worked as subject expert in faculty selection committee at WALMI Aurangabad
- Member of starting new PG programme i.e. MMS (Land and Water Management) at Dr. B.A.M. University Aurangabad (2004-05)

List of Ph.D. Thesis Supervised by Dr. D.G.Regulwar :

Sr.No.	Topic	Research Scholar	Status of Research Work
1	Multi Objective Multi Criterion Decision Making in Sustainable irrigation Planning Under Fuzzy Environment	Gurav Jyotiba Bhalchandra (Registration:30-7-2007)	Degree Awarded (2012)
2	Fuzzy Mathematical Programming for Optimal Multipurpose Multi-Reservoir Operation	Kamodkar Ravindra Uttamrao (Registration:30-7-2008)	Degree Awarded (2013)
3	Multi-objective Irrigation Planning with Conjunctive use of Surface and Groundwater under Fuzzy Environment	Ms. Vijaya S. Pradhan (Registration: August 2010)	Awarded (22-12-2014)
4	Conjunctive use of surface and ground water in fuzzy environment for sustainable irrigation planning	Nikam Neelkanth Gopalkrishna (Registration:30-7-2008)	Awarded (4-8-2016)
5	Climate Change and its Effects on River Basin Management (Area of research)	Saraf Vidya Rohidas (Registration: 5-11-2013)	Awarded (21-11-2016)
6	Sustainable multi-reservoir Operation	Dabhade Pushpak Dilip (Registration: 5-11-2013)	Awarded (20-10-2022)
7	Optimized Sustainable Quantity-Quality model for Conjunctive surface and Groundwater use	Mr. Rahul P. Agrawal (August 2018)	Awarded (17-07-2023)
8	Impact of climate change and land use on groundwater and surface water interactions	Ms. Pallavi R. Saraf (August 2018)	Awarded (18-11-2024)

List of Ongoing Ph.D. Thesis under supervision of Dr. D.G.Regulwar:

Sr.No.	Topic	Research Scholar	Status of Research Work
1	A Decision Support System for Sustainable Water Resources Management in River Basin under Fuzzy Environment	Thete Ajit Ramrao (Registration: August 2009)	Ongoing
2	Calibration and Uncertainty Analysis of Hydrological Responses of Water Shed	Nagargoje Sonali Ramkrishna (Registration: 5-11-2013)	Ongoing
3	Multi-Reservoir Operation (Area of research)	Ms. Shilpa Survase (Registration: 23-9-2014)	Ongoing
4	Multi-objective Optimization for Water Resources (Area of research)	Mr. H.S. Kumawat (Registration: 23-9-2014)	Ongoing
5	Water Quality Monitoring and Analysis of a Reservoir for Precision Agriculture using Spectral Sensor on UAV	Mr. Pranav Pradeep Bansode (Registration: 28-02-22)	Ongoing (AICTE Doctoral Fellow)

List of M. E./M.Tech. Dissertations Guided by Dr. D.G.Regulwar:

Sr.No	Name of Candidate	Title of Dissertation	Year of Passing
1	Miss Kankal Padmaja Dhananjay	Optimal Operation of Multipurpose Reservoir: A Multiobjective Fuzzy Linear Programming Approach	2005
2	Miss Ustoorikar Ketaki Shirish	Optimal Reservoir Operation for Hydropower Production by Genetic Algorithm	2005
3	Choudhari Sumant Anant	Optimal Operation of Multipurpose Reservoir for Hydropower Production Via Differential Evolution Algorithm	2005
4	Kamodkar Ravindra Uttam	Fuzzy Stochastic Dynamic Programming Model for Optimal Policies of a Multipurpose Reservoir	2005
5	Miss Kale Shailaja Shankarrao	Multiobjective Optimization of a Reservoir via Differential Evolution Algorithm	2006
6	Smt. Dhonde Sadhana Gitaram	Optimal Irrigation Planning and Reservoir Operation in Fuzzy Environment	2006
7	Mr. Gurav Jyotiba Bhalchandra	Optimal Operation of Reservoir under Deficit Irrigation	2006

8	Mr. Ingole Sushil Babanrao	Optimal Reservoir Operation for Hydropower Production by Successive Linear Programming	2006
9	Smt. Borse Sunanda S.	Design of Reinforced Soil Structure for Fly Over Bridge Approaches	2002
10	Smt. Nikam Sandhya Anandrao	Design of Reinforced Embankments with Geosynthetic Material	2004
11	Thete Ajit Ramrao	Joint Operation of Multipurpose Multireservoir System	2008
12	Miss Gorkar Amruta Pandurang	Optimal operation policies for a multipurpose reservoir using successive linear programming	2007
13	Ms. Pradhan Vijaya S.	Conjunctive use of surface and groundwater	2009
14	Ms. Rutuja Ramesh Choudhari	Monthly Inflow Prediction using Artificial Neural Network	2011
15	Sentu Debbarma	Inflow Prediction by Different Neural Network Architecture-A Case Study	2011
16	Ms. Alka K. Pardeshi	Inflow Prediction by using Artificial Neural Network-A Case Study	2011
17	Ms. Dipeeka K. Pardeshi	Hydro-informatics in Groundwater Exploration : A Case study	2011
18	Ingle Vishal V.	Comparative Study of Optimal Cropping Pattern using Linear Programming and Genetic Algorithm	2011
19	Mr. Dabhade Pushpak D.	"Optimal Design of Water Distribution Network by using Piping System Fluid Flow"	2012
20	Miss. Wevhal Alka Sahebrao	"Decision Support System for Integrated Water Resources Management-A Case Study"	2012
21	Miss Balve Pranita Narayan	"Optimal Operation of Reservoir using Fuzzy If-Then Rules and Fuzzy Linear Programming"	2013
22	Miss Sonali R. Nagargoje	"Delineation of watershed using ArcSWAT-A Case Study"	2013
23	Miss Sangita Vilas Pawar	"Optimal Reservoir Operation for Irrigation under Fuzzy Environment-A Case Study"	2013
24	Miss Smita Ramesh Varade	"Stage Discharge Prediction Model Using Artificial Neural Network"	2013

25	Ghuge Harshanand Kashiram	"Prediction of missing rainfall data by artificial neural network and conventional methods"	2013
26	Gitte Kapil Kishanrao	Analysis of Hydrological Responses of Watershed by using SWAT model	2014
27	Kodihal Sweta Suresh	Downscaling the precipitation using Statistical Downscaling Model (SDSM)	2014
28	Patil Nikhil Sunil	Estimation of Evapotranspiration by Artificial Neural Network	2015
29	Satpute Anjali Laxman	Optimal Reservoir Operation using Multi-objective Fuzzy Linear Programming Approach	2015
30	Ujgare Rohini Arjunrao	Reservoir Operation using Linear Programming	2015
31	Abhishek P Sinha	Soil Erosion Estimation of Watershed using USLE and Geo-informatics	2015
32	Mr. Akhlaque Ahmad Syed Saber Ali	Statistical Behavior and Analysis of Rainfall Data	2015
33	Ms. Vaishali S. Bhuktar	Computation of Runoff by SCS-CN Method and GIS	2015
34	Mr. Sumit N. Sharma	"Prediction of Evapo-transpiration by Artificial Neural Network and Conventional Methods"	2016
35	Mr. Rahul P. Agrawal	"Flow Analysis of Dudhana River using HEC-RAS: A Case Study"	2016
36	Ms Priyanka Kakasaheb Gaikwad	"Impact of Urbanization and Land Use Change on Runoff in Small Watersheds"	2016
37	Ambhore Rushikesh Mahendra	Site suitability analysis of soil & water conservation structures in watershed using GIS	2017
38	Ikhar Prerana Ramdas	Multireservoir Optimization: A GIS based study	2017
39	Keskar Abhijeet Purushottam	Evaluation of drought indices for drought monitoring in Marathwada Region, India	2017
40	Potdar Sonali Vinod	Conversion of existing field channels with pipe distribution network for irrigation	2017
41	Taji Satish Ganesh	Development of GIS based Storm Water Management Model (SWMM) for Aurangabad City, India	2017
42	Misal Priyanka Sanjay	Determination of Crop water Requirement and Irrigation Scheduling using CROPWAT and GIS	2018

43	Pawar Preetamkumar Shamrao	Storm Water Quantity and Quality Analysis Using HEC-HMS/RAS and SWAT	2018
44	Karanjeekar Diksha Diliprao	"Evaluation of Treated Wastewater Reuse Alternatives by using Multi Criteria Decision Making Techniques in Fuzzy Environment"	2018
45	Shaikh Saba Anjoom	Selecting Best Suitable Crop for Crop Scheduling: An AHP and TOPSIS approach	2018
46	Jadhav Kiran Chandrakant	Reservoir Operation using Particle Swarm Optimization	2018
47	Yogesh Janardhan Barokar	Assessment of Climate Change for Generating Gridwise Future Scenarios of Precipitation and Temperature Over Lower Godavari Sub Basin Maharashtra State, India.	2019
48	Parag Dilip Mahajan	Optimization of Irrigation Planning using Multiobjective Fuzzy Linear Programming: An Intuitionistic Fuzzy Approach	2019
49	Tejas Kamalakar Nikumbh	Integrated Approach to Assess the Impact of Land Cover Change in Upper Godavari Sub Basin – A Case Study of Nashik City, Maharashtra	2019
50	Akshay Bajirao Pachore	Meteorological Drought Analysis and Characterization for Marathwada Region, Maharashtra State, India	2019
51	Sohailraheman Shaikh Aminullah Shaikh	Design and optimization of 24x7 water distribution network using WaterGEMS: A case study	2019
52	Abid Noor Khan	Design of Sewer-Storm System by SewerGEMS	2019

(Dr. D. G. Regulwar)