

## **BIO-DATA**

**DR. D. G. REGULWAR**

**Professor & Dean (Academics)**

Dept. of Civil Engineering  
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Date of Birth: 17-07-1964

- **Dean (Academics)**
- **Worked as Dean (R& D) from 2011-2017**
- **Coordinator: M.Tech. -Water Resources Engineering**
- **In-charge: Fluid Mechanics Laboratory, Post Graduate Centre**

### **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

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

**Citations: 221**

**h-index: 7**

**i10 Index: 7**

**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

## 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:

### 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

### Patents filed and published in patent journal:

1. Bearing Converting Instrument for Surveying  
Patent Application Number: 3499/MUM/2014 Dated: November 06, 2014
2. COMBO COMPASS FOR SURVEYING (Class: 01-01)  
Patent Application Number: 1456 /MUM/2015 Dated: April 07, 2015

### Copyright Obtained:

1. **“KazApp”**: A mobile app for data entry and calculation of Reduced Levels in the filed
2. **“Bhumi Tantra”**: A software for calculation of Reduced Levels

### Trade Mark registration filed:

1. “KazApp”
2. “Bhumi Tantra”

### 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. Vasani, 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 (Accepted for publication)

### **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
  - Life member of Indian Water Resources Society, LM-00-5043
  - Life member of Indian Society for Hydraulics, LM-692
  - Fellow Member, Indian Association of Hydrologists, Roorkee, FM-303
- **Executive Council Member (2014-16)**, Indian Society for Hydraulics, CWPRS Pune
  - **Executive Council Member** of Indian Water Resources Society, Roorkee for 2015-17
  - **Executive Council Member**, IE(I) Aurangabad Local Centre
  - **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

### **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 35<sup>th</sup> 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: 102)**

#### **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](https://doi.org/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](https://doi.org/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:** 1945-3108 **DOI:** [10.4236/jwarp.2010.26062](https://doi.org/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:** 1945-3108 **DOI:** [10.4236/jwarp.2010.26064](https://doi.org/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:** 1945-3108 **DOI:** [10.4236/jwarp.2010.212123](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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, 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:** 1945-3108 [DOI: 10.4236/jwarp.2013.56065](https://doi.org/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:** 1945-3108 DOI: [10.4236/jwarp.2013.58082](https://doi.org/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),pp4-7
  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),pp131-134
  19. Sinha Abhishek P., and Regulwar D.G. (2015), " Watershed Modeling using Quantum Geographic Information System (QGIS)", International Journal of Pure and Applied 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
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. (2017). “Optimal reservoir operation using soil and water assessment tool and genetic algorithm”, *ISH Journal of Hydraulic Engineering*, Taylor & Francis, Volume 24 (2), pp 249-257 ISSN 0971-5010 (Print), 2164-3040 (Online) <https://doi.org/10.1080/09715010.2017.1417754>
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

### **National Journal Papers:**

1. Kamodkar R.U. and Regulwar D.G. (2010). “Multipurpose Single Reservoir Operation with Fuzzy Technological Constraints”, *ISH Journal 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. (Available Online Since 7 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

### **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." *6<sup>th</sup> 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" 3<sup>rd</sup> 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" 9<sup>th</sup> 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, 26-29 June 2013, pp 57-58
  16. D.G.Regulwar and J.B.Gurav (2013), Optimal Irrigation Planning with Minimization of Cost of Cultivation using Fuzzy Logic, Proceedings of International Conference on 35th IAHR World Congress, September 8 to 13, 2013 Chengdu, China, pp 369
  17. Gurav J.B. and Regulwar D.G., "Sustainable Irrigation Planning with Fuzzy Resources using Two-Phase Approach", Proceedings of International Conference on *Hydraulics, Water Resources, Coastal and Environmental Engineering*, HYDRO-2013, 4-6 December, 2013,IIT Madras, Chennai, , India, pp
  18. Rohini A. Ujgare and D.G.Regulwar (2014), "Reservoir Operation using Linear Programming for Jayakwadi Reservoir", Proceedings of

- International Conference on Contemporary Issues in Engineering, Technology and Computer Applications, International Association of Academicians & Researchers Pune, July 27, 2014.
19. Anjali L. Satpute and D.G.Regulwar (2014), "Optimal Reservoir Operation using Multiobjective Fuzzy Linear Programming Approach", Proceedings of International Conference on Contemporary Issues in Engineering, Technology and Computer Applications, International Association of Academicians & Researchers Pune, July 27, 2014.
  20. Nagargoje Sonali R. and D.G.Regulwar (2014), Analysis of hydrological responses based on LULC and soil classification for watershed , International Conference on *SUSTAINABLE CIVIL INFRA STRUCTURE, ASCE INDIA SECTION, 17 – 18 October, 2014, HITEX, HYDERABAD, TELANGANA, INDIA*, pp 1087-1094
  21. Saraf, V.R., Regulwar, D.G., and Borkar R.P. (2014), "Scenario Uncertainty in Statistical Downscaling the Precipitation", Proceedings of International Conference on Advances in Civil and Mechanical Engineering Systems, (ACMES-2014), 23-24 Dec.2014, Government College of Engineering, Amravati in association with SVNIT, Surat, India
  22. Saraf V. R. and D.G.Regulwar (2014), Statistical Downscaling of Monthly Precipitation for River Sub-basin, International Conference on *MODELING TOOLS FOR SUSTAINABLE WATER RESOURCES MANAGEMENT, IIT HYDERABAD, 28-29 DECEMBER 2014*, pp 15
  23. Nagargoje Sonali R. and D.G.Regulwar (2014), Sensitivity Analysis of Hydrological Model for Micro Watershed, International Conference on *MODELING TOOLS FOR SUSTAINABLE WATER RESOURCES MANAGEMENT, IIT HYDERABAD, 28-29 DECEMBER 2014*, pp 52-53.
  24. Nagargoje Sonali R. and D.G.Regulwar (2014), Water And Sediment Yield Modeling for Micro Watershed , 19<sup>th</sup> International Conference on *HYDRAULICS, WATER RESOURCES AND ENVIRONMENTAL ENGINEERING, HYDRO-2014, 18-20 DECEMBER 2014, , MNIT Bhopal*
  25. Chaudhari Rutuja, Patel J.N., Yadav S.M. and D.G.Regulwar (2014), Monthly Inflow Predication using WNN", 19<sup>th</sup> International Conference on *HYDRAULICS, WATER RESOURCES AND ENVIRONMENTAL ENGINEERING, HYDRO-2014, 18-20 DECEMBER 2014, , MNIT Bhopal*
  26. Saraf V. R. and D.G.Regulwar (2015), Evaluating Potential Impact of Climate Change on Hydrological Variables in Upper Godavari River

- Basin, India using SWAT, International Conference 36<sup>th</sup> IAHR World Congress, 28 June-3 July, 2015, The Hague, the Netherlands
27. Regulwar D.G. and Nagargoje Sonali R. (2015), Evaluation of Uncertainty Estimates in Distributed Hydrological Modeling for Micro Watershed in Godavari River in India using SUFI-2, and PARASOL Methods, International Conference 36<sup>th</sup> IAHR World Congress, 28 June-3 July, 2015, The Hague, the Netherlands
  28. Taji Satish and Regulwar, D. G. (2017) "GIS based Design of Drainage System using SWMM" Proceedings of International Conference on HYDRO-2017 International, 21-23 December, 2017, L. D. College of Engineering, Ahmedabad, Gujarat, India

### **National Conference:**

1. Sumit Sharma, Rahul Agrawal and D.G. Regulwar (2016) , “Estimation of Evapotranspiration using Artificial Neural Network and Blaney-Criddle Method”, Proceedings of 3<sup>rd</sup> National Conference on “Sustainable Water Resources Development and Management (SWARDAM-2016)”, Govt. College of Engineering Aurangabad pp 79-85, ISBN: 978-93-85777-75-2
2. P.K. Gaikwad and D.G. Regulwar (2016) , “Impact of Urbanization and Land Use Change on Runoff in Small Watershed”, Proceedings of 3<sup>rd</sup> National Conference on “Sustainable Water Resources Development and Management (SWARDAM-2016)”, Govt. College of Engineering Aurangabad pp 101-107, ISBN: 978-93-85777-75-2
3. J.B. Gurav, R.U. Kamodkar and D.G. Regulwar (2016) , “Vertical Farming—A Case Study”, Proceedings of 3<sup>rd</sup> National Conference on “Sustainable Water Resources Development and Management (SWARDAM-2016)”, Govt. College of Engineering Aurangabad pp 108-113, ISBN: 978-93-85777-75-2
4. A.P. Keskar, S.G. Taji, R.M. Ambhore, S.V. Potdar, P.R. Ikhari and D.G. Regulwar (2016) , “Rain Water Harvesting—A Campus Study”, Proceedings of 3<sup>rd</sup> National Conference on “Sustainable Water Resources Development and Management (SWARDAM-2016)”, Govt. College of Engineering Aurangabad pp 114-119, ISBN: 978-93-85777-75-2
5. Rahul Agrawal and D.G. Regulwar (2016) , “Unsteady Flow Analysis of Lower Dudhana River using HEC-RAS”, Proceedings of 3<sup>rd</sup> National Conference on “Sustainable Water Resources Development and Management (SWARDAM-2016)”, Govt. College of Engineering Aurangabad pp 120-125, ISBN: 978-93-85777-75-2

6. Nikam N.G. and Regulwar D.G. (2015), "Optimal Operation of Multipurpose Reservoir for Irrigation Planning with Conjunctive use of Surface and Groundwater using Fuzzy Resources", Proceedings of National Conference on Climate Change and Sustainable Water Resources Management, CSWM-2015, (ISH Speciality Conference) 3-5 September 2015, NIT Warangal pp. 112-120
7. Gitte, K.K., Nagargoje, S.R., and Regulwar, D. G. (2014), "Analysis of Hydrological Responses of Watershed by using SWAT model", Two day National Conference on Water, Environment and Society (NCWES-2014), 30 June-1 July 2014, JNTU Hyderabad pp 249-255
8. Kodihal S.S., Saraf, V.R., and Regulwar, D. G. (2014), "Downscaling the Precipitation using SDSM", Two day National Conference on Water, Environment and Society (NCWES-2014), 30 June-1 July 2014, JNTU Hyderabad pp 57-62
9. Patil N.S., and Regulwar, D. G. (2014), "Estimation of Evapotranspiration by Artificial Neural Network", Two day National Conference on Water, Environment and Society (NCWES-2014), 30 June-1 July 2014, JNTU Hyderabad pp 297-302
10. R. U. Kamodkar and D. G. Regulwar (2013) , MULTIPURPOSE SINGLE RESERVOIR OPERATION USING TYPE-2 FUZZY LOGIC, Proceedings of National Conference on "Sustainable Water Resources Development and Management (SWARDAM-2013)", Govt. College of Engineering Aurangabad pp 264-270
11. J.B.Gurav and D. G. Regulwar (2013) , RAINWATER HARVESTING-A CASE STUDY, Proceedings of National Conference on "Sustainable Water Resources Development and Management (SWARDAM-2013)", Govt. College of Engineering Aurangabad pp 179-183
12. 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
13. Pradhan V. S. and Regulwar D. G., "Assessment of Groundwater Resources for Irrigation in the Canal Command Area", Proceedings of National Conference on *Sustainable Water Resources Planning, Management and Impact of Climate Change (SWRDM-2013)*, BITS –Pilani, Hyderabad Campus, April 5-6, 2013, pp
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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 “ <b>Innovations, Inventions, and Patents IAP-2016</b> ”, 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	<b>Post Graduate Colloquium – 2016 (PGC-2016)</b>	26-27 May 2016
9	Organizing Secretary Dr.D.G.Regulwar	3 <sup>rd</sup> National 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 “ <b>Intellectual Property and Patent Lifecycle Management, IPPLM-2017</b> ” Sponsored by Technical Education Quality Improvement Programme (TEQIP Phase II).	<b>23 January, 2017</b>
12	Coordinator: Dr D G Regulwar	Two Days National Workshop on Engineering Optimization and its Applications (EOAIA-2017) Sponsored by Technical Education Quality Improvement Programme (TEQIP Phase II).	30-31 January, 2017
13	Convener: Dr. D. G. Regulwar	<b>Research Colloquium – 2017 (RC-2017)</b>	24-25 February 2017

### 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", GANEUF AE-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" EO AIA-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, GANEUF AE-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 " <b>Hydrological Modeling using Open Source Geospatial Techniques</b> "	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 " <b>Quantum GIS and its applications to Water Resources Engineering (QGISAWRE-2016)</b> "	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 " <b>Soft Computing Techniques in Engineering Applications</b> ", (SOCTEA-2017)	<b>15-19 February, 2017</b> , Organizing at Department of Civil Engineering, Govt. College of Engineering, Aurangabad
13	Dr. D. G. Regulwar	One week TEQIP – STTP on " <b>Quantum GIS &amp; QSWAT applications in Water Resources Engineering</b> "	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

**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  <i>ISBN: 978-81- 906531-5-2</i>	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  <i>ISBN: 978-81- 90495-8-8</i>	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  <i>ISBN: 978-93- 82880-63-9</i>	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  <i>ISBN: 978-93- 85777-75-2</i>	2016

**Expert Lectures Presented:**

Sr. No	Topic	Organization	Duration
1	Integrated Watershed Management	MSBTE Sponsored FDP on "Watershed Management" Organized by Dept of Civil Engg, P. L. Govt. Polytechnic, Latur	11 January 2017
2	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

3	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
4	Innovations & Inventions in Engineering and Case Study	Two Days National Workshop on “ <b>Innovations, Inventions, and Patents IIAP-2016</b> ”, Sponsored by TEQIP Phase II and in association with ISH Aurangabad Local Centre at Government College of Engineering Aurangabad	1-2 February, 2016
5	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	19-1-2016
6	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
7	Introduction to Research Methodology, Thesis Writing, Journal Paper Writing	Two days workshop on “Research Methodology”, College of Engineering, Kashti, Dist. Ahmednagar	30-12-2015
8	Techniques, principles and ethics in research and publishing	Workshop on “Principles of Research Methods”, JNEC Aurangabad	29-12-2015
9	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
10	Introduction to Research	Two Week STTP on “Advanced	23-24

	Methodology, Optimization Techniques, Fuzzy Logic, Genetic Algorithms, Thesis Writing	Research Thrust Areas in Engineering Science" from 21-11-2015 to 30-11-2015 at Govt. College of Engineering Karad	November 2015
11	Intellectual Property Rights & Innovation in Engineering	Expert Lecture at JNEC Aurangabad	9-10-2015
12	Hydrological Modeling, Systems Approach to Civil Engineering	K.K.Wagh College of Engineering, Nashik	20-9-2015
13	Innovation in Engineering and Case Study	Workshop on "Intellectual Property Rights & Innovation in Engineering", JNEC Aurangabad	12-9-2015
14	Smart Cities: Cities of Tomorrow	Two days Seminar on "Smart City", P.E.S. College of Engineering Aurangabad	28-29 August 2015
15	Research Methodology	Two days FDP for Teaching Staff, Shreeyash College of Engineering & Technology, Aurangabad	9-10 July 2015
16	Applications of Mathematics in Civil Engineering	<b>One Week Workshop on "Applications of Engineering Mathematics" at SANDIP INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE Nashik</b>	<b>20th – 24th April, 2015</b>
17	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
18	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

19	Remote Sensing & GIS Applications in Hydrology	Workshop on "Introduction to Remote Sensing", JNEC, Aurangabad	10-7-2014
20	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
21	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
22	Introduction to Optimization Fuzzy Logic and its applications	Department of Civil Engineering, Govt. College of Engineering, <b>Jalgaon.</b> (TEQIP-STTP on Mathematical & Statistical Approaches in Engineering Applications (MSAEA-2013) 26-30 December 2013."	December 27, 2013
23	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, <b>Aurangabad.</b> (TEQIP-STTP on "Research Methodology - Concepts and Tools (REMECOAT-2013)"	16-20 December, 2013
24	Genetic Algorithm and its applications & Fuzzy Logic and its applications	Department of Civil Engineering, Govt. College of Engineering, <b>Karad.</b> (TEQIP-STTP on "New Trends in Hydroelectric power project, 9-13 December 2013"	December 11, 2013
25	Genetic Algorithm and its applications	Department of Civil Engineering, SGSITS, Indore.	October 26, 2013
26	a) Fuzzy linear programming and its application in reservoir operation (1.5 hrs)	Department of Civil Engineering, SVNIT, <b>Surat</b> (TEQIP- One week short term training programme on Hydraulic and	July 4, 2013

	b) Genetic Algorithm and its application in reservoir operation. (1.5 hrs).	Hydrologic Modelling: Concepts and Applications July 1-5, 2013	
27	Genetic Algorithm and its applications & Fuzzy Logic and its applications	Department of Civil Engineering, Govt. College of Engineering, <b>Aurangabad.</b> (TEQIP-STTP on "Soft Computing Tools and its Applications in Engineering (SOCTAPE-2013)")	3-7 June, 2013
28	Soft Computing	Conference on "Advanced Computational Techniques, ACT-2013" at SKN-SIT, Lonavala, <b>Pune</b>	March 29-30, 2013
29	Fuzzy Logic and Genetic Algorithm Applications	Computer Department, JNEC, <b>Aurangabad</b>	22-23 March, 2013
30	Genetic Algorithm and its applications & Fuzzy Logic and its applications	Department of Civil Engineering, SGGSI E&T <b>Naanded</b> (TEQIP-STTP on "Analytical Techniques in Applied Research")	January 22, 2013
31	Genetic Algorithm and its applications & Fuzzy Logic and its applications	Department of Civil Engineering, Govt. College of Engineering, <b>Aurangabad.</b> (TEQIP-STTP on "Genetic Algorithm Neuro Fuzzy Applications in Engineering, GANEUF AE-2012")	17-21 December 2012
32	Introduction to Optimization and Linear Programming	Department of Civil Engineering, Govt. College of Engineering, <b>Aurangabad.</b> (TEQIP-STTP on "Engineering Optimization and its Applications, EO AIA-2012")	25-29 June 2012
33	Linear programming, Dynamic Programming, and Fuzzy Logic	Department of Mechanical Engineering, Govt. College of Engineering, Aurangabad. (TEQIP-STTP on "Engineering Optimization and its Applications, EO AIA-2012")	25-29 June 2012
34	Applications of Engineering	One day Seminar on "Applications of Engineering Mathematics in Various	11-2-2012



	Mathematics in Civil Engineering	Engineering Disciplines” Organized at M.I.T., Aurangabad	
35	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
36	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
37	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
38	Genetic Algorithm and its applications	Department of Civil Engineering, Govt. College of Engineering, Aurangabad. (ISTE-STTP on “Genetic Algorithm Neuro Fuzzy Applications in Engineering, GANEUF AE-2010”)	29 November – 10 December 2010
39	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
40	Dams and Spillways	Regional Training Centre, Water Resources Department, WALMI, Aurangabad	29-4-2010
41	Use of Hydrological Data in Water Resources	HDUG workshop at Irrigation Department, Jalna	21 December,

	Systems Optimization		2009
42	Developments in Reservoir Operation	Pravara Rural Engineering College, Loni, Maharashtra, India. (Two-day work shop on Techniques in Water Management)	25-26 September, 2008
43	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
44	Standard Draft Practices for Project Report	Govt. Polytechnic, Aurangabad	2-8-2008
45	Micro-Irrigaion	Govt. Polytechnic, Aurangabad (State level workshop on Micro Irrigation sponsored by MSBTE)	2-1-2007 to 6-1-2007
46	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	Regional Engineering College, Warangal (A.P.)	June11-23, 2001	2

	Engineering”			
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 “Managing & Functioning in an Autonomous Institute”	Govt. College of Engineering, Aurangabad	14-20 January 2008.	1
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	Govt. College of	20 June - 1	2

	programme on “Soft Computing Tools and its Applications in Engineering , SOCTAPE-2011”	Engineering, Aurangabad	July, 2011	
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” EOAI-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, GANEUF-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	2 <sup>nd</sup> High Noon Spring School sponsored by UKaid DFID	Department of Civil Engineering IIT, Delhi	4 <sup>th</sup> to 7 <sup>th</sup> 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 Assessment Tool using Open Source Software:QGIS & QSWAT"	Dept of Civil Engg, Indian Institute of Technology Madras, Chennai	4-9 January, 2016	1
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

### 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	27 <sup>th</sup> 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,	J.N.E.C., Aurangabad	1998

	Maharashtra-Goa section		
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,	Deogiri College Aurangabad	23-25 March 2012

	Engineering, Computer Application and Technology (ICCTCMECAT, 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	2 <sup>nd</sup> 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 35 <sup>th</sup> 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-	IIT Madras, Chennai, India	4-6 December, 2013

	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	3 <sup>rd</sup> 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-	BMS College of	August 2 to



	Based Education”	Engineering, Bengaluru.	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	9 <sup>th</sup> 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

### Other information

- BOS member, Civil Engineering, University of Pune
- **Research guidance for PhD: 05 Completed, and 05 ongoing**
- Guided 41 students for M.E. Dissertations.
- 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, 2<sup>nd</sup> National conference on “Innovations in Civil Engineering”, NCICE-2016 during 8-9 January 2016 at Govt. College of Engineering Karad
- Advisor of 5<sup>th</sup> International Conference on “Recent Trends in Engineering and Technology” ICRTET-2015, 28-30 April 2016 at SNJB College of Engineering, Chandwad
- Advisor of 4<sup>th</sup> International Conference on “Recent Trends in Engineering and Technology” ICRTET-2015, 2-4 July 2015 at SNJB College of Engineering, Chandwad
- Advisor of 3<sup>rd</sup> International Conference on Recent Trends in Engineering and Technology 28-30 March 2014 at SNJB College of Engineering, Chandwad

- Advisor of 2<sup>nd</sup> 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, Sinhadgad 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)

**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	Sustainable multi-reservoir Operation (Area of research)	Dabhade Pushpak Dilip (Registration: 5-11-2013)	Ongoing
4	Multi-Reservoir Operation (Area of research)	Ms. Shilpa Survase (Registration: 23-9-2014)	Ongoing
5	Multi-objective Optimization for Water Resources (Area of research)	Mr. H.S. Kumawat (Registration: 23-9-2014)	Ongoing

**List of M. E. 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	2002

		Over Bridge Approaches	
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		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		Ongoing
48	Parag Dilip Mahajan		Ongoing
49	Tejas Kamalakar Nikumbh		Ongoing
50	Akshay Bajirao Pachore		Ongoing
51	Sohailraheman Shaikh Aminullah Shaikh		Ongoing