

## BIO- DATA

**1. Name** : DR. SHETKAR RAJEEV VISHWANATH

**2. Designation** : Professor and Head of Department

**3. E-mail Id** : [rvshetkar@geca.ac.in](mailto:rvshetkar@geca.ac.in)

**4. Contact Number (mobile)** : 9420633830

**5. Date of Birth (DD/MM/YYYY)**: 15<sup>th</sup> August 1963



### **6. Educational Qualifications:**

<i>Examination and Specialization</i>	<i>Name of the Institute/University/Board</i>	<i>Year of Passing</i>	<i>Percentage of Marks /</i>	<i>Grade</i>
S.S.C.	Aurangabad	1979	69.00	First
H.S.C.	Aurangabad	1981	54.67	Second
B.E.(Civil Engineering)	Gulbarga University	1985	72.33	First Class with Distinction
M. E.( Water Resources Engineering)	Gulbarga University	1996	69.10	First
Ph.D.	National Institute of Technology, Karnataka	2009	9.77/10.00	March 2009
ADCSSAA	Maharashtra State Board of Technical Education	1994	77.30	First Class

### **7. Experience** (Teaching, Industrial and Research):

Name of the Institute/ Organisation	Department	Designation	From Date	To Date
Terna Polytechnic, Navi Mumbai	Applied Mechanics	Lecturer	09.08.1986	25.04.1996
Government Polytechnic, Nanded	Civil Engineering	Lecturer	26.04.1996	15.08.2000
Government College of Engineering, Karad	Civil Engineering	Assistant Professor	16.08.2000	31.12.2005
Government College of Engineering, Karad	Civil Engineering	Associate Professor	01.01.2006	19.07.2010

Government College of Engineering, Aurangabad	Civil Engineering	Associate Professor / Controller of Examination	20.07.2010	16.09.2010
Government College of Engineering, Aurangabad	Civil Engineering	Professor / Controller of Examination	17.09.2010	31.11.2013
Directorate of Technical Education (Deputation)	DTE Mumbai	Professor/ Assistant Director (Technical)	01.12.2013	31.10.2015
Government College of Engineering, Aurangabad	Civil Engineering	Professor	01.11.2015	15.02.2018
Directorate of Technical Education (Deputation)	DTE Mumbai	Professor/ Deputy Director	16.02.2018	19.09.2019
Government College of Engineering, Aurangabad	Civil Engineering	Professor	20.09.2019	Till Date

### 8. Courses Taught at Undergraduate Level

1. Basics of Civil Engineering
2. Surveying
3. Fluid Mechanics
4. Transportation Engineering
5. Building Planning and Design
6. Water Resources Engineering
7. Town Planning
8. C Programming
9. Database Management System
10. System Analysis and Applications

### 9. Courses Taught at Post Graduate Level

1. Advanced Fluid Mechanics
2. Channel and River Hydraulics
3. Watershed Management

### 10. Details of M.E. Dissertations Guided:

Sr. No.	Name of the Candidate	Dissertation Title	Year of Completion
1	Pallavi V. Aamle	A Study of Climate Change Effect on Tapi River Flow of Vidarbha Region Maharashtra	2010-11

2	Shaikh Saher Fatima	Performance Evaluation of Water Use Association in Water Distribution System	2012-13
3	Heena Ingale	Flood Analysis of Wainganga River bu using HEC RAS Model	2016-17
4	Harshal Parate	Design of Sewer Network Using Dynamic Programming	2016-17
5	Surabhi Gaidhani	Analysis of Cropping Pattern by using Soil Water Assessment Tool	2016-17
6	Shaikh Mohd. Siddiq Mohd. Iqbal	Application of Soil and Water Assessment Tool and Revised Universal Soil Loss Equation for Soil Erosion Estimation	2017-18
7	Ashwin Chavan	Flood Analysis using Integrated HEC RAS And GIS a case study of Nashik City	2018-19
8	Nagesh Kukade	Erosion and Sediment yield Modeling with USLE , Arc GIs and SWAT	2019-20

### 11. Details of Ph. D. Guided

Sr. No.	Name of the Research Scholar	Title of Thesis	Year of Completion
1	Mrs.Pallavi Kharat	Evaporation Modelling in Reservoir using Data Driven Techniques	2017
2	Mr. Rajendra .A.Patil	Evaporation Modeling in Reservoir using Data Driven Techniques	2017
3.	Mr. Kishor Gandhare	Hydropower Reservoir Simulation Studies after lowering power MDDL of KHEP-IV	Ongoing
4.	Mrs. Sadhana Pawar	Watershed Development and Management	Ongoing
5.	Mrs. Palsingankar	Integrated storm Water Management	Ongoing
6.	Mr. Anil Mankar	Sediment transport Modeling	Ongoing

### 12.Details of Training programmes Attended:

Sr. No.	Training Name	From Date	To Date	Organization
1	Induction Training –Phase –I (04- Weeks)	22.06.1998	17.07.1998	Govt. of Maharashtra
2	Practical methods of	28.09.1998	11.10.1998	ISTE, New Delhi

	hydrological design – Recent advances and computer applications (02- Weeks)			
3	Induction Training Phase – II ( 04 – Weeks)	01.02.1999	26.02.1999	Govt. of Maharashtra
4	Faculty Development Program (02- Weeks)	24.07.2006	04.08.2006	DST , Govt. of India , New Delhi
5	Numerical computation of fluid flow and heat transfer (02 – Weeks)	11.12.2006	22.12.2006	AICTE , New Delhi
6	NPCBEERM – Training of Trainers (04-Weeks)	03.11.2008	29.11.2008	Ministry of Home Affairs Govt. of India
7	Effective Role execution for Institutional Development	13.02.2009	14.02.2009	TEQIP Networking, WCE Sangli
8	Soft Computing Techniques in Hydrology and Water Resources (01 Week)	02.11.2009	06.11.2009	IIT Mumbai
9	Effective Teaching Methodologies – (01 Week)	10.05.2010	14.05.2010	NITK Surathkal
10	Climate Change and Water Management (01 Week)	28.02.2011	04.03.2011	IIT Mumbai
11	Skill Matrix Enhancement and Effective Teaching Learning for Quality Technical Education ( 02 – Weeks)	28.11.2011	09.12.2011	ISTE New Delhi
12	Genetic algorithm and Neuro Fuzzy Applications in Engineering	17.12.2012	21.12.2012	GEC Aurangabad (TEQIP)
13	Reliasoft’s Reliability Engineering Education ( 01 – Week)	05.03.2012	09.03.2012	ReliaSoft India, Chennai
14	Sustainable Environment – An Engineering Perspective 2020	13.07.2020	18.07.2020	Assam Engineering College Guwahati
15	Machine Learning and Deep Learning Applications in Engineering and Science	16.05.2020	20.05.2020	Government College of Engineering Karad (TEQIP)
16	Outcome Based Education : A Step Towards Excellence (AICTE Margadarshan Scheme)	11.05.2020	25.05.2020	Government College of Engineering Karad
17	Basic Principles of Remote	13.04.2020	25.04.2020	IIRS Deharadun

	Sensing Technology			Government of India
18	Natural Disaster Resilience for Built Environment	24.08.2020	28.08.2020	University of Technology Sydney & IIT Madras

### 13. Details of Swayam/ MOOCS/NPTEL programmes attended

Sr.No.	Training Name	From Date	To Date	Organization
1	Open Source Learning Management System (MOODLE)	16.06.2020	20.06.2020	Aligarh Muslim University Aligarh
2	Digital Transformation In Teaching Learning Process	06.04.2020	22.04.2020	IIT Bombay (TEQIP Online Certification)
3	Introduction To Research (8 Weeks)	February 2020	April 2020	NPTEL Online Certification

### 14. Conferences / Training programs organised

	Conferences/ Workshop/Seminars description	Month & Year	National/State /International
1	AICTE –ISTE Short term training program on Practical Applications of new construction techniques and machinery for the construction projects	11 <sup>th</sup> to 22 <sup>nd</sup> June 2001	National
2	One Day Workshop On Eligibility and Rules for Admission to Various Professional Technical Courses in view of Maharashtra Unaided Private Professional Educational Institutions (Regulation of Admission and Fees) Act, 2015 (Maharashtra Act. No. XXVIII of 2015)	May and June 2016 (Pune, Sangli, Aurangabad, Amravati, Nagpur, Nashik, Mumbai)	State
3	Foundation Skills in Information Technology (NASSCOM , DTE and TEQIP Sponsored)	27 <sup>th</sup> June to 2 <sup>nd</sup> July 2016	State
4	Design of Rural Water Supply Scheme (Under Unnat Maharashtra Abhiyan)	22 <sup>nd</sup> September 2016	State
5	Evaluation and Design of Rural Water Supply Scheme (Under Unnat Maharashtra Abhiyan)	23 <sup>rd</sup> September 2016	State
6	Enhancement of Entrepreneurship Development (NASSCOM , DTE and TEQIP Sponsored) for Principals/ Directors and TPO's.	18 <sup>th</sup> and 19 <sup>th</sup> November 2016	State
7	Two Days Workshop For First Year Students “The i-Pro Program stressing Success” in association with MACCIA and DTE	10 <sup>th</sup> and 11 <sup>th</sup> January 2017	State

**15. Conferences/ workshops Attended**

Sr. No.	Conferences/ Workshop/Seminars description	Month & Year	Place
1	Local Area Network	January 21-23, 1993	S.B.M.Polytechnic, Bombay
2	National Workshop on Earthquake in Marathwada an eye opener	February 25-26, 1994	College Of Engineering Badnera
3	Earthquakes: Challenges to Engineers and Scientists	May 14-15, 1994	Institution of Engineers, Aurangabad
4	Sustainable Development of water resources in coastal regions	November 26, 2005	National Institute of Technology Surathkal
5	Desalination and Water purification : Water resources and their management	March 20- 21, 2006	Malviya National Institute of Technology, Jaipur
6	Indian National Conference on Ocean and Harbour Engineering	December 12-14, 2007	National Institute of Technology Surathkal
7	Hydraulics and Water Resources- HYDRO-07	December 21-22, 2007	SVNIT Surat.
8	8th IWA Specialized Conf. on Small Water and Wastewater Systems, 2nd IWA Specialized Conf. on Decentralized Water and Wastewater International Network	February 6-9, 2008	Kumarguru College of Technology , Coimbatore
9	Emerging technologies in Civil Engineering	February 28-29, 2008	PDVP College of Engineering Ahmednagar
10	Sustainable Water Resources Management 2010	January 7-9, 2010	National Institute of Technology Surathkal
11	National Conf. on Environmental Awareness, Rahata Dist. Ahmednagar.	February 16-18, 2010	Pravara Education Society's College Rahata. (Ahmednagar)
12	Flagship Workshop on Effective Administration	February 15-16, 2013	GCoE Aurangabad
13	Patent and Copyright policy of Government College of Engineering, Aurangabad- Phase I	9 <sup>th</sup> April 2013	GCoE Aurangabad

**16. Memberships of professional bodies**

Sr. No.	Name of The Professional Body/ Organization	Membership Type	Membership Number
1	Life Member Indian Society for Hydraulics		MISH-689
2	Life Member Indian Society for Technical Education		LM 8668

3	Member Institute of Engineers India		M 139681-6
4	Life Member Indian Society for Rock Mechanics and Tunneling Technology		
5	Life Member of Indian Water Works Association		

## 17. Publications (year wise)

### International Journal

Sr. No.	Author(s)	Title of the Paper	Details of Publication Journal, volume, issue, page No. , date
1	<b>Shetkar Rajeev V.</b> and A. Mahesha (2010)	Effect of Climate Change on Netravathi Riverflow	<i>International Journal of Earth Sciences and Engineering</i> , 03(04), 553-560
2	<b>Shetkar Rajeev V.</b> and A. Mahesha (2011)	Tropical, Seasonal River Basin development : Hydrogeological Analysis	<i>ASCE Journal of Hydrologic Engineering</i> , 16(3), 280-292.
3	<b>Shetkar Rajeev V.</b> and A. Mahesha (2011)	Tropical, Seasonal River basin development through a series of vented Dams	<i>ASCE Journal of Hydrologic Engineering</i> , 16(3), 292-302
4	R.A.Patil and <b>R.V.Shetkar</b> (2015 )	Sediment Deposition in Koyna Reservoir By integrated Bathymetric Survey	<i>Int. Jl. of Research in Engineering and Technology</i> , 4(11),114-118.
5	Kharat Pallavi and <b>Rajeev Shetkar</b> (2016)	Predicting Reservoir Evaporation Using Artificial Neural Network	<i>Int. Jl. of Innovative Research in Science, Engineering and Technology</i> ,5(4),5851-5857.
6	Patil R.A. and <b>Shetkar R.V.</b> ,(2016)	Prediction of Sediment Deposition in Reservoir Using Artificial Neural Networks	<i>Int. Jl. of Civil Engineering &amp; Technology (IJCIET)</i> ,7(4),1-12.
7	Kharat Pallavi and <b>Shetkar R.V.</b> (2016)	Evaluation of Evaporation Models Based on Climate Factors	<i>Int. Jl. of Civil Engineering &amp; Technology (IJCIET)</i> , 7(4),111-120.
8	Rajendra Patil, <b>Rajeev Shetkar</b> (2016)	Prediction of Sediment Deposition in Reservoir Using Analytical Method	<i>American Journal of Civil Engineering</i> , 4(6), 290-297
9	Heena Ingale, <b>R.V.Shetkar</b> (2017)	Flood Analysis of Wainganga River by using HEC-RAS Model	<i>Int. Jl. of Scientific Engineering and Technology</i> , 6(7), 211-215.
10	Harshal Parate, <b>R.V.Shetkar</b> (2017)	Design of Sewer Network using Dynamic Programming	<i>Int. Jl. of Innovative Research in Science, Engineering and Technology</i> , 6(5), 8633-8641
11	Surabhi Gaidhani, <b>R.V.Shetkar</b> (2017)	Analysis of Cropping Pattern by using Soil Water assessment Tool	<i>Int. Jl. of Scientific Engineering and Technology</i> , 6(6),
12	M.S.Shaikh and <b>R.V.Shetkar</b>	Soil Erosion Estimation Modelling by Revised	<i>Journal of Water Resources Engineering and Management</i> ,

	(2018)	Universal Soil Loss Equation and Soil and Water Assessment Tool on Geographic Information System Platform	5(2), 56-69.
<b>13</b>	Chavan A N and <b>R.V.Shetkar</b> (2019)	Flood Analysis using Integrated HEC RAS and GIS, A Case study of Nashik City India	<i>Journal of Water Resources Engineering and Management</i> 6(3), 15-24
<b>14</b>	Kukade N.M. and <b>R.V. Shetkar</b> (2020)	Erosion and Sediment yield Modeling with USLE , Arc GIs and SWAT	<i>Journal of Remote Sensing and GIS</i> , 11(01), 55-62.
<b>15</b>	Kharat Pallavi and R.V.Shetkar (2021)	Approximation of Evaporation using Support Vector Regression Model	<i>International Journal of New Innovations in Engineering and Technology</i> , 17(03),72-79

### National Journal

<b>Sr. No.</b>	<b>Author(s)</b>	<b>Title of the Paper</b>	<b>Details of Publication Journal, volume, issue, page No. , date</b>
<b>1</b>	<b>Shetkar Rajeev V.</b> and A. Mahesha (2008)	Tropical River basin development- a case study in selection of sites for Vented dams	<i>ISH Journal of Hydraulic Engineering</i> , 14 (3), 9-15.
<b>2</b>	S Varadraju, <b>Shetkar Rajeev</b> , S Siddappaji (2011)	Brackishwater Shrimp Farming and its effect on Adjacent soil and water – An overview	<i>Environment and Ecology</i> , 29(4A), 2045-2049
<b>3</b>	<b>Shetkar R.V.</b> , Bhalchandra A.S., Adwani P. S. (2013)	Implementation of Autonomy – Our Perspectives and Experiences	<i>The Journal of Engineering Education</i> , 26(04), 44-53.

### International Conferences

<b>Sr. No.</b>	<b>Author(s)</b>	<b>Title of the Paper</b>	<b>Details of Conference Publication, Conf Name, Place, page No. , date</b>
<b>1</b>	<b>Shetkar, Rajeev V.</b> , and A. Mahesha (2006)	Vented dam: An effective water harvesting structure across the river Netravathi, Karnataka, India	<i>Int. Symposium, Desalination and Water purification: Water resources and their management. , Jaipur</i> , 99 (1-4).
<b>2</b>	<b>Shetkar, Rajeev V.</b> , and A. Mahesha (2008)	Assessment of aquifer vulnerability to seawater intrusion through the tidal river of tropical region	<i>8th IWA Specialized Conf. on Small Water and Wastewater Systems, 2nd IWA Specialized Conf. on Decentralized Water</i>



			<i>and Wastewater International Network, Coimbatore, 77 ( 1-8).</i>
<b>3</b>	Patil R.A. and <b>R.V. Shetkar</b> (2017),	Prediction of Sediment Deposition in Reservoir using GA-ANN Hybrid Method	<i>Int. Conference on Technological Advances in Climate- smart Agriculture and sustainability, Nanded, 277-280.</i>
<b>4</b>	Kharat Pallavi and <b>R.V.Shetkar</b> (2017)	Time Trend Analysis of Evaporation for Nath Sagar Reservoir, Aurangabad District , Maharashtra	<i>Int. Conference on Technological Advances in Climate- smart Agriculture and sustainability, Nanded,364-367.</i>

### National Conference and workshops

<b>Sr. No.</b>	<b>Author(s)</b>	<b>Title of the Paper</b>	<b>Details of Conference Publication, Conf Name, Place, page No. , date</b>
<b>1</b>	<b>Shetkar Rajeev V.</b> (1998)	Automation of water distribution system.	Proceedings of the workshop on “ <i>Water management of river Godawari</i> ” , July 1998- Nanded, p. 174 to 179
<b>2</b>	<b>Shetkar Rajeev V.</b> (1998)	Realistic approach to flood forecasting	Proceedings of the workshop on “ <i>Water management of river Godawari</i> ” , July 1998- Nanded, p. 333 to 337
<b>3</b>	<b>Shetkar, R.V.,</b> and Mahesha, A., (2007)	Hydrological analysis of the Netravathi river flow for sustainable development	<i>4<sup>th</sup> Indian National conf. on Harbour and Ocean Engineering, Surathkal, 2, 667 – 673.</i>
<b>4</b>	<b>Shetkar, R.V.,</b> and Mahesha, A., (2007)	Tropical river basin development- A case study	<i>National Conf. on Hydraulics &amp; Water Resources HYDRO- 07, Surat, 32- 39</i>
<b>5</b>	<b>Shetkar, R.V.,</b> and Mahesha, A., (2008)	Effect of climate change on water resources system – An overview”	<i>National Conf. on Emerging Technologies in Civil Engineering, Ahmednagar, 568 -572.</i>
<b>6</b>	<b>Shetkar, R.V.,</b> and Mahesha, A., (2010)	River Water harvesting through vented dams – A case study	<i>National conference on sustainable water resources Management, National Institute of Technology Karnataka, Surathkal</i>
<b>7</b>	<b>Shetkar, R.V.,</b> and Mahesha , A.,(2010)	Global Warming and Water Resources – An overview	<i>National Conf. on Environmental Awareness, Rahata Dist. Ahmednagar.</i>
<b>8</b>	Amle P.V. and <b>Shetkar R.V.</b> (2011)	Climate Change Effect on Tapi River Flow of Vidarbha Region (Maharashtra)	<i>National Symposium on Climate Change and Environment Management, Indore, pp. 92-97</i>

9	R.A.Patil, <b>R.V.Shetkar</b> , A.P.Avhad (2014)	Study of Sedimentation in Koyna Reservoir by Integrated Bathymetric Survey	<i>Conference on Innovations and Developments in Civil Engineering 2014, National Institute of Technology Karnataka, Surathkal, 1028- 1035</i>
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### 18. Other Major Activities conducted/ portfolio held

- **Head of Department, Department of Civil Engineering**
- **Dean, Infrastructure, Government College of Engineering, Auranagabad.**
- **Chairman , Building Works Committee, Government College of Engineering, Auranagabad**
- **Nodal Officer, Unnat Bharat, Unnat Maharashtra Abhiyan**
- **Worked as Controller of Examination, Government College of Engineering, Aurangabad, An autonomous institute of Government Of Maharashtra.**
- Member of various University committees such as, Member of Committee appointed for the formation of rules and regulations for Credits and Grade system in Dr. B.A.M.U. Aurangabad at Under graduate and Post graduate level, Member of committee appointed for framing rules for admission to P.G. courses under the Dr. B.A.M.U. Aurangabad.
- Chairman First year Engineering and Pharmacy Admissions (Government College of Engineering Karad), Chairman Direct Second Year Engineering and Pharmacy Admissions (Government College of Engineering Karad)
- Vice President Gymkhana ( Government College of Engineering Karad)
- Secretary, Satara Zonal sports council – Organised various sports competitions on behalf of Shivaji University Kolhapur
- Co-ordinator , Aavishkar – A national level technical paper presentation Competition ( Government College of Engineering Karad)
- Completed Training of Trainers organised by National Institute of Disaster Management, Ministry of Home Affairs, New Delhi at IIT Roorkee. Government College of Engineering Karad is recognised as State Training Institute.
- Member of Academic Council / Senate Government College of Engineering Aurangabad,
- Actively participated in the preparation of rules for admission to Diploma, Degree and Post graduate degree courses in the state of Maharashtra. (Directorate of Technical Education)

**(Prof. Rajeev V Shetkar)**