

SHIVAJI UNIVERSITY, KOLHAPUR

DEPARTMENT OF TECHNOLOGY

Vidyanagar, **KOLHAPUR**- 416004 (INDIA)

NAAC 'A++' Grade with CGPA 3.52



1.	Name	:	Prof. Dr. Girish Shrinivas Kulkarni.
2.	Date of Birth	:	20 th January, 1963
3.	Designation	:	<ul style="list-style-type: none">• Professor, Civil Engineering, Department of Technology, Shivaji University, Kolhapur• Approved P.G. and Ph.D. Teacher for Shivaji University and D.Y. Patil Deemed University, Kolhapur.• Trustee Dnyandeep Education and Research Foundation, Sangli.• Member Environmental Protection and Research Foundation, Sangli.• Fellow Institution of Engineers (India).• Chartered Engineer (India) M-134571-5.• Fellow Institutions of Valuers.• Member Indian Water Works Association• Fellow Indian Plumbing Association.• Member Solar Energy Society of India.
4.	Educational Qualification	:	<ul style="list-style-type: none">• Bachelor of Engineering – Civil 1st Class (63%)• Master of Engineering (Environmental Engineering) 1st class 65%• Doctor of Philosophy in Civil (Environmental) Engineering under Faculty of Engineering and Technology under guidance of Dr. S.V. Ranade (former HOD, Environmental Engineering, Walchand College of Engineering, Sangli) affiliated to Shivaji University, Kolhapur on Techno-economical feasibility of using Solar Energy for Environmentally sustainable Buildings
5.	Contact Address	:	Department of Technology Shivaji University, Vidyanagar, 'E' Ward, Kolhapur-416 003. (M.S.)

			<ul style="list-style-type: none"> Plot No. 3, Rukmini Nagar, Behind Hotel Opal, Old Pune-Bangalore Road, Kolhapur – 416 005 (M.S.) Mobile :- 9823180139 , Teland Fax- 0231- 2522776 E- Mail – girishkulkarni63@gmail.com
6.	Experience	:	
			<ul style="list-style-type: none"> 1.5 Years in Public Works Department of Maharashtra State Government as Asst. Engineer.
			<ul style="list-style-type: none"> 1 Year Lecturer in Civil Engineering at D. Y. Patil College of Engineering and Technology, Kolhapur
			<ul style="list-style-type: none"> 4 Years Lecturer in Civil Engineering Y. B. Patil Polytechnic, Kolhapur.
			<ul style="list-style-type: none"> 2 Years independent Consulting Engineer and Valuer
			<ul style="list-style-type: none"> 11 Years Deputy Registrar (Civil) Shivaji University, Kolhapur.
			<ul style="list-style-type: none"> Professor for Master of Technology (M. Tech.) in Environmental Science and Technology, Shivaji University, Kolhapur from 1st January 2009.
			<ul style="list-style-type: none"> Faculty for Master of Architecture (M. Arch.) in Construction Management at College of Architecture, Kolhapur. 3 Years Professor and Head in Environmental Science and Technology, Shivaji University, Kolhapur
			<ul style="list-style-type: none"> Presently working as 'I/c. Director' Department of Technology, Shivaji University, Kolhapur from May, 2010 onwards

7. Achievements / Contributions in Execution:

During the span of last 21 years has contributed in various Civil Engineering Works along with Environmentally sustainable concepts. The notable contributions are in following important projects of greater magnitude as head of construction activities.

- Worked with Dr. S. V. Ranade, Dr. B. Subbarao, Prof. J. M. Gadgil in Department of
- Environmental Engineering at Walchand College of Engineering, Sangli and in the laboratory of Department Environmental Protection and Research Foundation and was engaged in analysis of water and waste water products, specially focused on Engineering Design of composting methods of solid waste disposal.
- Construction of I.T.I. Building at Sangli through P.W.D. Sangli.
- Construction of Sangli – Ankali Black topped road through P.W.D. Sangli.
- Construction of Examination Building at Shivaji University, Kolhapur.
- Construction of Chemistry Department Building at P.G.T.C., Solapur.
- Construction of Storage Reservoirs 1) Behind Language Building and 2) Behind Music
- Department Building at Shivaji University, Kolhapur including improvement in catchment area to increase the runoff in the reservoir.
- Construction of Water Lifting Scheme and Treatment Plant for Shivaji University, Kolhapur.
- Design and installation of Solar Hot Water System for Hostel Buildings of the magnitude 10,000 LPD at ladies and gents hostel.

- Study and Recommendation of improvement of lux level so as to reduce day time
 - lighting requirement of the buildings.
- Design and Construction of Bio-gas Plant for Gents Hostel.
- Recycling of the debris for Road Constructions on the campus.
- Design and Installation of Rain Water Harvesting System for University Buildings.

- Rehabilitation of Over Head Reservoir of University Campus.
- Construction of Athletic Track for Shivaji University, Kolhapur.
- Tree Plantation Program for making the campus green.
- Design of Light Emitting Diode Lighting System for Energy Efficient Buildings.
- Design of Waste Water Treatment System for Malvan City.
- Promotion of Building Practices with Low Embodied Energy Materials.
- Various Building Constructions / Road Constructions / Interior Works of different magnitude.
- Design of Industrial Waste Treatment Plants for many Industries.
- Design and application of Green Concepts for many residential, industrial and commercial buildings.

8. **Approved valuer for**

- Bank of Baroda
- Bank of India
- Union Bank of India
- United Western Bank
- Shree Warana Sahakari Bank, Ltd.
- Shree Mahalaxmi Sahakari Bank, Ltd.
- And many other local Banks and Pathsansthas.

Publications :

- **“Innovative Roof Designs for Collection of Solar Energy”** published in International Interdisciplinary Journal on Environment – **ISSN 0975-0657**.
- **Energy efficient Street Lighting Designing** – Published in Journal of Shivaji University, Science and Technology, **Vol. No. 40 2006**
- **“Use of Optics/Optoelectronics/Solar Energy Technology for Indirect Lighting of Buildings”**. Published in proceedings of National Seminar on Materials for Advanced Technologies (NASMAT-2006) Sponsored by University Grants Commissions and Shivaji Universtiy, Kolhapur
- **“Solar Energy Power Solutions for Development of Eco-tourism Concept in Goa”** Published in proceedings of workshop at ‘777 Eco-Tourism’ organized jointly by Goa Tourism Development Corporation, Goa and IIID
- **“Energy Efficient Street Lighting Design”** Published in proceedings of National Workshop Jointly organized by DERF, MEDA and MJP on Dream of Green City held at Pune on 21st and 22nd Sept., 2006
- **Integrated Structural Units For Collection And Utilization Of Solar Energy For Sustainable Zero Energy Buildings** Published in proceedings of Tatyasaheb Kore Institute of Engineering and Technology, Warananagar, during National Conference on

Renewable Technology and Energy Management (NCRTEAM 2007) – 2nd and 3rd March, 2007

- **“Harnessing the solar energy for buildings”** Published in proceedings of one day seminar on use of Solar Energy in Building Planning and Design at Kolhapur Institute of Technology’s College of Engineering, Kolhapur on 22nd August, 2004.
- **“Rain Water Harvesting for Shivaji University, Kolhapur”** Published in proceedings of One day workshop on Design of Green Buildings organized by Dnyandeep Education and Research Foundation at Kolhapur on 14th May, 2006.
- **“Sustainable Lighting Design”** Published in proceedings of Engineers day at Islampur, Dist. Sangli, organized by Giants Group and Association of Architects and Engineers on 15th Sept., 2006
- **“Daylighting Strategies”** Published in proceedings of workshop at Sangli organized by Shri. V.B.Patil Trust’s Appasaheb Birnale College of Architecture on 06th October, 2006
- **“Engineering design of aerobic Composting process with cost economics and optimization”**. Presented to the Shivaji University.

No. of PG Students Guided \ Being Guided

1. M.Tech – 13
2. M.Arch- 05
3. Ph.D- 05

DETAILS OF PROFESSIONAL CAREER:

(a) Most Important Engineering works for which personally responsible (Please attach statement duly attested)

- Construction of I.T.I. Building at Sangli through P.W.D. Sangli.
- Construction of Sangli – Ankali Black topped road through P.W.D. Sangli.
- Construction of Examination Building at Shivaji University, Kolhapur.
Construction of Chemistry Department Building at P.G.T.C., Solapur.
Construction of Storage Reservoirs 1) Behind Language Building and 2) Behind Music
- Department Building at Shivaji University, Kolhapur including improvement in catchment area to increase the runoff in the reservoir.
- Construction of Water Lifting Scheme and Treatment Plant for Shivaji University, Kolhapur.
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- Study and Recommendation of improvement of lux level so as to reduce day time lighting requirement of the buildings.
- Design and Construction of Bio-gas Plant for Gents Hostel.
- Recycling of the debris for Road Constructions on the campus.
- Design and Installation of Rain Water Harvesting System for University Buildings.
- Rehabilitation of Over Head Reservoir of University Campus.
- Construction of Athletic Track for Shivaji University, Kolhapur.

- Tree Plantation Program for making the campus green.
- Design of Light Emitting Diode Lighting System for Energy Efficient Buildings.
- Design of Waste Water Treatment System for Malvan City.
- Promotion of Building Practices with Low Embodied Energy Materials
- Various Building Constructions / Road Constructions / Interior Works of different magnitude.
- Design of Industrial Waste Treatment Plants for many Industries
- Design and application of Green Concepts for many residential, industrial and commercial buildings.

(b) Research and Teaching Experience (If any) (Please attach statement duly attested)

RESEARCH

- Worked with Dr. S. V. Ranade, Dr. B. Subbarao, Prof. J. M. Gadgil in Department of Environmental Engineering at Walchand College of Engineering, Sangli and in the laboratory of Department Environmental Protection and Research Foundation and was engaged in analysis of water and waste water products, specially focused on Engineering Design of composting methods of solid waste disposal.
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- Construction of Sangli – Ankali Black topped road through P.W.D. Sangli.
- Construction of Examination Building at Shivaji University, Kolhapur.
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- Construction of Storage Reservoirs 1) Behind Language Building and 2) Behind Music Department Building at Shivaji University, Kolhapur including improvement in catchment area to increase the runoff in the reservoir.
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- Tree Plantation Program for making the campus green.
- Design of Light Emitting Diode Lighting System for Energy Efficient Buildings.
- Design of Waste Water Treatment System for Malvan City.
- Promotion of Building Practices with Low Embodied Energy Materials.
- Various Building Constructions / Road Constructions / Interior Works of different magnitude.

TEACHING

- During the span of last 21 years has contributed in various Civil Engineering Works along with Environmentally sustainable concepts. The notable contributions are in following important projects of greater magnitude as head of construction activities.
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and was engaged in analysis of water and waste water products, specially focused on Engineering Design of composting methods of solid waste disposal.

1.5 Years in Public Works Department of Maharashtra State Government as Asst. Engineer.

- 1 Year Lecturer in Civil Engineering at D. Y. Patil College of Engineering and Technology, Kolhapur
- 4 Years Lecturer in Civil Engineering Y. B. Patil Polytechnic, Kolhapur.
- 2 Years independent Consulting Engineer and Valuer
- 11 Years Deputy Registrar (Civil) Shivaji University, Kolhapur.
- Faculty for Master of Technology (**M. Tech.**) in Environmental Science and Technology, Shivaji University, Kolhapur.
- Faculty for Master of Architecture (**M. Arch.**) in Construction Management at College of Architecture, Kolhapur.
- 1.5 Years **Professor and Head** in Environmental Science and Technology, **Shivaji University, Kolhapur**
- Presently working as **'Director' Department of Technology**, Shivaji University, Kolhapur from May, 2010 onwards

Conferences :

- Green Building Conference organized by Indian Green Building Council – 2008 at Mumbai.
- Goa Tourism Development Corporation, Calangute Goa workshop on 'Eco-Tourism' organized jointly by IIID and GTDC.
- National Seminar on Materials for Advanced Technologies (NASMAT-2006) Sponsored by University Grants Commissions and Shivaji Universtiy, Kolhapur.
- National Conference on Renewable Technology and Energy Management at Tatyasaheb Kore Institute of Engineering and Technology, Warananagar.
- Design of Green Buildings organized by Dnyandeep Education and Research Foundation at Kolhapur.
- National Workshop Jointly organized by DERF, MEDA and MJP on Dream of Green City held at Pune
- International Interdisciplinary Conference on sustainable technologies for environmental protection ICSTEP 2006 at Coimbatore Institute of Technology Coimbatore.
- GreenTech 2009 – 8, 9 Feb., 2009
- Completed lead auditor training programme for ISO 14001 arranged by TUV SUD

(c) Specialization (If any) (Please attach statement duly attested)

APPLICATION OF GREEN BUILDING TECHNOLOGIES

Technical paper published (if any) (Please attach sheet duly attested as per following format)

Title of the Paper	Name of journal in which published	Date of publication
INTERNATIONAL PAPER		
Development of aspect-impact matrix during the implementation of	Technology Today, Vol. II, Issue-II, Quarterly Journal, ISSN 2180-0987	July-Aug., 2010

Title of the Paper	Name of journal in which published	Date of publication
environment management system for common effluent treatment plant at Kagal, Dist. Kolhapur		
20090101 - Innovative Roof Designs for Collection of Solar Energy	International Interdisciplinary Journal on Environment ISSN 0975-0657 Vol.1, Aspire Academic Excellence online publishing series Issue 1	
Techno-economical feasibility of water disinfection using solar energy	Engineering Research and studies E-ISSN 0976-7916	
Decolorization of anthroquinone based dye Vat Red 10 by Pseudomonas desmolyticum NCIM 2112 and Galactomyces geotrichum MTCC 1360	International Journal for Biotechnology and Molecular Biology research Vol.2(6), pp.93-97 June 2011 ISSN 2141-2154©2011 Academic Journals	June 2011
Optimization of Reaction Kinetics for Anaerobic Filter with reference to distillery condensate treatment	International Journal of Emerging Technologies and applications in Engineering, Technology and Sciences ISSN:0974-3588 July11-Dec.11 Vol.4, Issue 2 page 380	July 11- Dec.11
Review on process, application and performance of rotating biological contactor (RBC)	International Journal of Scientific and Research Publications, Vol.2, Issue 7, July 2012 ISSN 2250-3153	July 2012
Natural radioactivity study in soil samples of South Konkan, Maharashtra, India	Radiation protection dosimetry advance access published May 23, 2013 155(3), published by Oxford University Press, pp.1-9,	May 23, 2013
NATIONAL PAPER		
Comparative study of constructed wetland and upflow-downflow filter for greywater treatment	International Journal of environment pollution control and management Serials publication, 4830/24, Ansari Road, Darya Ganj, New Delhi, 110002, India	Jan-June 2011
Energy efficient Street Lighting Designing	Journal of Shivaji University, (Science and Technology) Vol.No.40 of 2006, 87-100	2006
Use of Optics/Optoelectronics/ Solar Energy Technology for Indirect Lighting of Buildings	proceedings of National Seminar on Materials for Advanced Technologies (NASMAT-2006)	
Solar Energy Power Solutions for Development of Eco-tourism Concept in Goa	proceedings of workshop at '777 Eco-Tourism' organized jointly by Goa Tourism Development Corporation, Goa and IID	
Energy Efficient Street Lighting Design	proceedings of National Workshop Jointly organized by DERF, MEDA and MJP on Dream of Green City held at Pune	21 st and 22 nd Sept., 2006
Integrated Structural Units For Collection and Utilization of Solar	proceedings of Tatyasaheb Kore Institute of Engineering and	2 nd and 3 rd March, 2007

Title of the Paper	Name of journal in which published	Date of publication
Energy For Sustainable Zero Energy Buildings	Technology, Warananagar, during National Conference on Renewable Technology and Energy Management (NCRTEAM 2007)	
Decolorization of Textile Dye Vat Blue 66 by Pseudomonas desmolyticum NCIM 2112 and Bacillus megaterium NCIM 2087	Research Journal of Applied Sciences, Engineering and Technology 3(7): 689-692-2011 ISSN: 2040-7467 © Maxwell Scientific Organization 2011	July 25, 2011
A short review on process and applications of reverse osmosis	Universal Journal of environmental research and technology, Euresian Publications ©2011, ISSN 224- 0256 Vol.1, Issue 3: 233-238	2011
Evaluation of water quality indices for the drinking water of engineering colleges in Kolhapur city	National journal of scientific and engineering research volume 4, Issue 3, March 2013, IN 2229-5518	March 2013
Harnessing the solar energy for buildings	proceedings of one day seminar on use of Solar Energy in Building Planning and Design at Kolhapur Institute of Technology's College of Engineering, Kolhapur	22 nd August, 2004.
Rain Water Harvesting for Shivaji University, Kolhapur	proceedings of One day workshop on Design of Green Buildings organized by Dnyandeep Education and Research Foundation at Kolhapur	14 th May, 2006.
Sustainable Lighting Design	proceedings of Engineers day at Islampur, Dist. Sangli, organized by Giants Group and Association of Architects and Engineers	15 th Sept., 2006
Daylighting Strategies	proceedings of workshop at Sangli organized by Shri. V.B.Patil Trust's Appasaheb Birnale College of Architecture	06 th October, 2006
Engineering design of aerobic Composting process with cost economics and optimization	Shivaji University	

Membership of other Engineering Institution/Societies (if any) (Please attach sheet duly attested as per following format)

Name of Institution/Society	Grade of Membership	Date of Election	Whether still a Member
Member Environmental Protection and Research Foundation, Sangli	Life member	1996	YES
Member Institution of Engineers (India) and Chartered Engineer (India)	M-134571-5	06/09/2007	YES
Fellow Institutions of Valuers	Life member		YES

Member Indian Water Works Association	Life member	07/02/2008	YES
Member Indian Plumbing Association	Life member	06/07/2009	YES
Member Solar Energy Society of India	Life member	2008	YES

Honors and awards:

The attempts taken for GREEN development of Shivaji University Campus were recognized by leading national newspapers like Times of India as a model for Water Harvesting.

Outstanding Confidential Report during year 2006-07 and 2007-08 as per letter from Registrar, Shivaji University, Kolhapur.

Programms guided :

- UG Programms : DCE, B.E. Civil, B.Tech. Environmental
- PG Programms : M.Tech., M.Arch.
- Ph.D. students guided : 05 Registered
- M.Tech students guided : 03 Completed – 08 in Progress
- M.Arch. students guided : 05 Registered