Kausalya Swanand Kulkarni



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Academic Credentials

Degree	Specialization	Institution	University	Year	%/CGPA	Class
M. Tech	Water Management	SGGSIE&T, Nanded	SRTMUN	2013	8.52	Distinction
B. Tech	Civil- Water Management	SGGSIE&T, Nanded	SRTMUN	2011	7.09	First class

Career Highlights

- Assistant Professor at Maharashtra Institute of Technology, Aurangabad (August 2015 Current)
- Assistant Professor at Pimpri Chinchwad College of Engineering & Research (PCCOER) Pune. (August 2014 July2015)
 - Courses conducted Basic Civil Engineering, Engineering Mechanics.
- Assistant Professor at Deogiri Institute of Engineering and Management Studies, Aurangabad. (July2013 Decembere 2013)
 - Courses conducted Fluid Mechanics, Plumbing Engineering.
- Teaching assistantship for two semesters under TEQIP-II scheme, SGGSIE&T, Nanded. (July 2012 June 2013)
 - Courses instructed Basic Civil Engineering, Surveying, Fluid Mechanics.

Membership of Professional Bodies

- Member of ISTE.
- Member of Hydrological Data User Group (HDUG).

Current Research Areas

• Environmental Impact Assessment, Mitigation for systems having negative environmental impact, Green Building and its rating systems worldwide, IGBC, LEED, Green Star, Green Rating for Integrated Habitat Assessment, Design for Environment, Green Technology, Carbon Emission, Carbon credits and carbon trading, Sustainable materials for Building constructions

 Water Resources Economics Planning and Management having no negative impact on environment, Water Works Engineering, Ground/Surface Water Hydrology, Irrigation Water management for optimum water use, Design of Hydraulic Systems, Hydraulic Modelling, Water supply Management, Rainwater Harvesting, Watershed Management, Water use optimization in green buildings.

Computer/Software Proficiency

- EPANET (The pipe network analysis software introduced by **US Environmental Protection Agency**)
- Introduction to ARCGIS and Q-GIS.

Projects

- 1. Assessment of Jalyukta Shivar Abhiyan Structures in Three villages near Chhatrapati Sambhajinagar.
 - Jalyukta Shivar Abhiyan was a scheme by Maharashtra State Government to **fight against draught**, under which, various structures like Concrete Nala Bunds, Contour Trenches, Farm ponds, Earthen Bunds etc. were constructed.
 - The scheme was so effective that **many draught prone areas came out permanently off the draught** and now these structures are the part of the life of residents there.
- 2. Analysis and Design of Water Supply System in Parbhani City. (M. Tech)
 - The present water supply system which was designed about 30 years ago was analysed for the increased population in the city using the pipe network analysis software **EPANET**, with the support of **ArcGIS**.
 - From the results of the analysis, the drawbacks in the system were observed and suggestions were made.
 - The rising main and pump capacity was designed for the newly developed part of the city, where there was no distribution system.
- 3. To propose a Hydropower Station on a dam on the river Karpara in Parbhani district (Maharashtra). (B. Tech)
 - The project comprised of checking the potential of an irrigation project on a river for the micro hydropower station. The hydropower station was proposed on the canal releases and spillway releases from that dam.
 - The project was carried out keeping in mind the optimized water use by multipurpose
 application, i.e. water releases for irrigation are used as input for hydropower
 generation, which saved the energy and cost required for both the operations to
 half.

Certifications

• NPTEL certification for "Indian Knowledge System- Engineering Applications", conducted by NPTEL, AICTE SWAYAM in Coordination with Indian Institute of Management Banglore and Chanakya University Banglore.

• NPTEL certification for "Environmental Impact Assessment", conducted by NPTEL, AICTE SWAYAM in Coordination with Indian Institute of Technology, Roorkee.

STTP/FDP/Industrial Training/Seminar/Workshop/Conference Attended

I. Conferences and courses attended

- International conference on "Urban Lakes: Ecology, Rejuvenation, Technology and Economics" (7th and 8th September, 2012), Powai, Mumbai.
- 45TH Convention of Indian Water Works Association in Pune.
- One-week course on "Demand Management of Water Supply" (September 24-28, 2012), Nanded (MS).
- One-week course on "Analytical Techniques for Applied Research" (January 21-25, 2013), Nanded.
- One-week interdisciplinary faculty Development Programme on "Role of Textile in Water Preservation" (March 18-22, 2013), Nanded.
- National conference on "Contribution of Voluntary Organisations in Water Sector" (August 8-9, 2015), Aurangabad.
- One-week STTP on Structural Engineering, arranged by IIT Kharagpur (January 2016), at MIT, Aurangabad.
- 5 Day QIP Short Term Course on GIS for Civil Engineers, at Indian Institute of Technology, Powai, (May 15-19, 2017) Bombay.
- 2 weeks FDP on "Effective use of ICT tools in online Teaching", on MOOC platform, conducted by Government Pharmacy College, Jalgaon, (June 22 to July 04, 2020)
- Online webinar on "Urban Hydrology", organised by IWWA Aurangabad Centre with MIT and DIEMS on July 8, 2020.
- Online session on "Sustainable Infrastructure for 21st century" by Dr. Grant Wright, Heriot Watt University, on July3, 2020.
- One-week TEQIP STTP on "Advanced Technologies in Water Resource Management" organised by IWWA Aurangabad Centre and GECA, on November 23-27, 2020.
- ATAL online FDP on "Sustainability Engineering" organised by St. Joseph College of Engineering from December 14 to 18, 2020.
- One-week FDP on "Incorporating Universal Human Values in Education", conducted by AICTE, (December 22 to 27, 2020)
- Two days International Conference on "Recent Challenges and Opportunities in Engineering" organised by College of Technology and Engineering, Jaipur, on March 13, 14, 2021.
- Two days educational summit on "Outcome Based Education and NAAC" organised by IQAC MIT and Mastersoft.
- ATAL online FDP on "Instructional Design for Effective Teaching" from July 5 to 9, 2021.
- AICTE Sponsored One Week Online Short-Term Training Program (STTP)
 "Machine Learning" Applications in Civil Engineering Under AICTE Quality
 Improvement Scheme (AQIS) Organized by Department of Civil Engineering
 & Department of Electronics and Tele. Engineering JJ Magdum College of
 Engineering, Jaisingpur, from 21st to 25th February, 2022.
- 12-week Faculty Development Program on 'Environmental Impact Assessment' organized by All India Council for Technical Education, NPTEL, from January to April 2022.
- **FDP** on case writing, Analysis, Teaching and publication organised by Ajinkya DY Patil University on March 12, 2022.

- **One-week FDP** on "Outcome based Teaching Learning" organised by Pravara Rural Engineering College, Loni from 21st to 25th March, 2022.
- AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Instructional Design for Effective Teaching" from 2021-7-5 to 2021-7-9 at BML Munjal University.
- Five days ISTE approved FDP on "Design and development of AI-ML models for beginners" at APSIT Thane from July 17 to 21, 2023.
- AICTE Recognized Faculty Development Programme on Pedagogical Practices in Civil Engineering Conducted by Education and Educational Management Department from 18/12/2023 to 22/12/2023 (One Week) at NITTTR, Chandigarh.
- One-week FDP on "Innovative Techniques in Ground water Improvement and soil reinforcement for sustainable Infrastructure" organised by SVERI's College of Engineering, Pandharpur with IGS Pune Chapter from November 11 to 16, 2024.
- One-week FDP on "Sustainability in Civil Engineering: Innovations for Resilient Future", organised by Department of Civil Engineering, Walchand Institute of Technology, Solapur, from April 14 to 18, 2025.

Contributions at MIT, Aurangabad

Academic

Taught to almost all the years of under graduate programs, majorly the subjects
related to Water resources and Environmental Engineering. Also taught open
electives such as Design for Environment and Environmental Impact
assessment which were open for all branches. From teaching subjects like
Rural Water Supply, a different vision of water supply systems was provided,
apart from routinely taught urban water supply systems.

Extra-Curricular

- Work as a mentor for MIT Women's Power Girls Club since last two years, under which, many activities for girls students such as group discussions on topics like women Empowerment and contribution of women in History.
- Sessions like self defence for girls and communication and team building activities are specifically conducted and students found to be enthusiastic during the sessions.

Co-Curricular

Organised different seminars and expert talks which are beneficial for students
on topics like career development opportunities in Civil Engineering and
opportunities in water supply field and water treatment.

Any other special contribution

 Proudly contributed to syllabus structure design for Autonomous pattern with a special input and contribution to Honours and Minor syllabus for "Green Technology and Sustainability Engineering".

- NPTEL certification for "Environmental Impact Assessment" was done as a skill enhancement for effective teaching.
- SWAYAM NPTEL certification for "Indian Knowledge System- Concepts and application in Engineering" was done and initialization for syllabus setting for "Introduction to Indian Knowledge System" was taken from the institute.

Personal Details

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