

Wastewater Treatment Master Class by AOWS

Training on Design & Operation of Wastewater Treatment Processes
(STP)

@ ONLINE on 31 January & 1 February 2026
2 Full Days (Saturday & Sunday)



Academy of Water Science – AOWS is inviting you to avail of this value-added opportunity to enhance your knowledge of wastewater treatment design & operation by participating in the Wastewater Master Class on Design & Operation of Various Wastewater Treatment Processes for Sewage Treatment Plants (STP). This Training Program will benefit professionals in all aspects of wastewater treatment, design, operation, planning and management. Please review the details below and nominate delegates from your organisation.

BENEFITS OF ATTENDING: -

This 2-day program on **Process Design, planning for execution and Commissioning of WWTPs** will bring together the design of wastewater treatment processes, sludge treatment selection and design of physical, chemical and biological treatment processes, and design methodologies for water recycling. Our Guest Trainer, **Dr Shashibhushan Biliangadi** has 15 years of experience and is among the top wastewater instructors in India. **Dr Shashibhushan Biliangadi** is a consultant, designer and training instructor for wastewater treatment plants for many industries.

This program will show you how to carry out the key steps in the process design of all kinds of wastewater treatment and recycling plants. It will provide an essential refresher on the relevant underlying principles of engineering science, water chemistry and biology, together with rules of thumb commonly used by experienced practitioners. **This master class is especially beneficial to beginners and those having experience of 2-3 Years in the same field.**

About the Trainer:

Dr Shashibhushan Biliangadi

Civil and Environmental Engineer

Dr Shashibhushan Biliangadi has been working on various Research and Consulting projects since 2015. He holds a PhD degree from IIT Bombay and an MTech from IIT Guwahati in Civil and Environmental Engineering. His areas of expertise are Wastewater Treatment, Environmental Risk Assessments, Baseline and Morphological studies, and Water Management for Industries. He has experience working in research

Schedule & Topics to be covered: -

Day -1: 31st January 2026

Morning Session: 10:00 AM to 1:00 PM

Introduction to Wastewater Treatment

1. Basic characterisation of Wastewater
2. Pollution control board norms and how to design to meet complaints
- 2.2. Calculating sewage flow /demand as per codes: Treatment flowchart of STPs

Primary Treatment Processes

3. Primary Treatment Process
 - 3.1 Bar Screen design and selection
 - 3.2 Oil & Grease Chamber
 - 3.3 Coagulation – Flocculation & Sedimentation

Post Lunch Session: 2:00 PM to 5:30 PM

Secondary Treatment Processes

4. Aeration /Biological treatment
 - 4.1 Diffuser selection
 - 4.2 Agitator or pump design
 - 4.3 Blower selection

4.4 Valves and plumbing in biological tanks

5. Anoxic tank

6. Moving Bed Biological Treatment (MBBR)

7. Sequential Batch Reactor (SBR)

Day -2: 1st February 2026

Morning Session: 10:00 AM to 1:30 PM

1. Biological Treatment continued
2. Secondary settling tank
3. Disinfection (UV /Chlorination), Sand and Carbon filter design
4. Troubleshooting issues in STP

Post Lunch Session: 2:00 PM to 5:30 PM

Planning for Execution & Commissioning

5. Plumbing materials selection and installation
6. Electrical panel selection
7. Automation
8. Solving design problems

Troubleshooting, Case Studies, Question / Answer

More Details as Below:

- One year post-training support via support group
- Study material
- Project assistance and plant supply for your start-ups.
- Placement assistance.
- Refresh training at a 50% discount within one year
- Discounted fee in other AOWS courses.
- All India community platform.

LIMITED SEATS ONLY

Early Bird offer: if booked by 25 January 2026

The Early Bird Discount of ₹3,000

Book now for just ₹4,700 (including 18% tax)

(This package offers one year of post-training support, study materials, certification, and all-India group membership.)

After the Early Bird discount offer, the Regular Fee is: ₹7,700 (including 18% tax)

Group Booking: Additional ₹1,000 discount per participant

Online Booking Link: <https://rzp.io/l/fexqKSmyD>

Google Pay No: 9825024371, UPI: aows@dbs

NEFT/Bank Transfer:

Account Name: JEM INDIA, **A/C No.** 0788611000000252, **IFSC:** DBSS0IN0788

Bank Name: DBS Bank Limited,

Note: Advanced, detailed training for ETP is also scheduled on 7-8 February 2026 (<https://aows.in/etp-online>). If you want to attend both as a combo batch, please contact us.

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