

Workshop on Water and wastewater analysis

26th July, 2011 to 31st July, 2011

About SEA

Shrushti Environment Academy (SEA), an organization committed to developing professionals to work for healthy environment in harmony with economic development is sister concern of Shrishti Eco-Research Institute (SERI). As a major contribution from its expert resources, is announcing a **workshop on Water and Wastewater Analysis** which is need of the hour as environmental issues are taking front seat in the development process. SEA has organized this programme in association with Shrishti Eco-Research Institute (SERI), Pune, Indian Environment Association (IEA), Pune Chapter, and Aavanira Biotech Pvt. Ltd, Pune.

Preamble

Though there are several courses on environmental sciences at present in the formal educational system, there are no structured courses available outside the formal system for people who desire to learn about environmental analysis as a part of professional career. Workshop Course involves field studies, presentations, lectures, discussion, and interaction with policy makers, experts. Additionally there will be discussions on resources utilization, project management and pollution load on environment.

The course syllabus is designed so that it will help in capacity building and to build confidence in environmental monitoring and analysis. The course content involves introduction to Aquatic Chemistry and Microbiology, Instrumentation, water related laws, practical of water analysis and introduction to ISO: 17025 Lab quality system.

Syllabus

1. Introduction to ISO: 17025 for Laboratory Quality Systems
2. Aquatic Chemistry
3. Aquatic Microbiology
4. Chemistry of testing parameters
5. Instrumentation for Environmental Monitoring
6. Water Quality Models
7. Legal Compliance – Act, Rules & Standards for water quality

Course Duration

The course is from 26th July to 30th July, 2011. The period can be extended upto 6 days. On 6th day i.e. 31st July early morning visit to the polluted sites and interaction with local peoples to analyze the impacts of water pollution on environment and people.

Registration

For smooth and effective organization of the workshop, students of B. E (Civil, Environment etc.) B. Sc. and M. Sc (Chemistry, Microbiology, Zoology, Botany etc. including all life sciences subjects) and industrial and institutional employees (including governments labs also) interested in participating in the workshop are requested to register their names by filling the **Registration Form** well in advance.

Registration Fee:

For Students: The Registration Fee for the workshop is **Rs. 4000/-per delegate** (Inclusive of Workshop Material, Lunch, Breakfast and Tea for a day i.e. for 5 days 26th July to 30th July, 2011 and travelling charges for field visit).

For Professional: The Registration Fee for the workshop is **Rs. 7000/-per delegate** (Inclusive of Workshop Material, Breakfast, Lunch, and Tea for 5 days i.e. 26th July to 30th July, 2011 and travelling charges for field visit)

Please Note:

1. Registration will be accepted in the form of E-mails only
2. The D. D. should be drawn in favour of Shrushti Environment Academy payable at Pune
3. We don't provided any accommodation, each participates will arrange on its own.
4. Fees paid are Non refundable or Non Transferable.
5. All rights are preserved by the Shrushti Environment Academy.
6. Last date of registration: **10th July 2011**
7. If you are interested in attending workshop please send the mail to contact@seriecotech.com. Registration form will be send to you on your email id. Send the completed form with scan copy of DD to contact@seriecotech.com and the hard copy along with request letter from institutes by post to:

Shrushti Environment Academy (SEA)

B-106, Devgiri, Opp to P. L. Deshpande Garden,

Near Ganesh Mala, Sinhagad Road, Pune – 411030

Phone No: 91 – 20 - 24253773 / Telefax: 91 - 20 – 66206539

First Come First Serve Basis

Organizers:

1. Shrushti Environment Academy (SEA), Pune
2. Shrishti Eco-Research Institute (SERI), Pune
3. Indian Environment Association (IEA), Pune Chapter
4. Aavanira Biotech Pvt. Ltd., Pune

Programme Schedule
Workshop on
Water and Wastewater Analysis
(26th July, 2011 to 31st July, 2011)

Program on - 26th July to 31st July, 2011

Venus – 'Growth Lab' Science & Technology Park, Pune-Nashik Road, Opp. Panjerpole, Bhosari, Pune 411 039

Time - 9.00 a.m. to 1.30 p.m. & 2.30 pm to 6.00 p.m.

Syllabus :

1. Introduction to ISO: 17025 for Laboratory Quality Systems
2. Aquatic Chemistry
3. Aquatic Microbiology
4. Chemistry of testing parameters
5. Instrumentation for Environmental Monitoring
6. Water Quality Models
7. Legal Compliance – Act, Rules & Standards for water quality

Day 1: 26th July, 2011

Time	Activity	Topic of discussion	Conducted By
9.00 – 9.30	Registration	-	-
9.30 – 10.30	Lecture 1	Introduction to ISO: 17025 for Laboratory Quality Systems	Mrs. Sayali Joshi
10.30 – 10.45		Interactive Session	
10.45 – 11.45	Lecture 2	Aquatic Chemistry	Dr. Jayant Mandalik
11.45 – 12.00		Interactive Session	
12.00 – 1.00	Lecture 3	Aquatic Microbiology & Sampling Methods	Mrs. Sayali Joshi
1.00 – 1.15		Interactive Session	
1.15 – 1.45	Lunch Break	-	-
1.45 – 2.45	Lecture 4	Instrumentation for Environmental Monitoring	Dr. A. D. Patwardhan
2.45 – 3.00		Interactive Session	
3.00 – 6.30	Practical	--	

Day 2: 27th July 2011

Time	Activity	Topic of discussion	Conducted By
9.30 – 10.30	Lecture 1	Introduction to ISO: 17025 for Laboratory Quality Systems	Mrs. Sayali Joshi
10.30 – 10.45		Interactive Session	
10.45 – 11.45	Lecture 2	Chemistry of Testing Parameters	Mr. Promod Salaskar
11.45 – 12.00		Interactive Session	
12.00 – 1.00	Lecture 3	Instrumentation for Environmental Monitoring	Dr. A. D. Patwardhan
1.00 – 1.15		Interactive Session	
1.15 – 1.45	Lunch Break	-	-
1.45 – 2.45	Lecture 4	Chemistry of Testing Parameters	Mr. Promod Salaskar
2.45 – 3.00		Interactive Session	
3.00 – 6.30	Practical	--	-

Day 3: 28th July, 2011

Time	Activity	Topic of discussion	Conducted By
9.30 – 10.30	Lecture 1	Introduction to ISO: 17025 for Laboratory Quality Systems	Mrs. Sayali Joshi
10.30 – 10.45		Interactive Session	
10.45 – 11.45	Lecture 2	Water quality model	Mr. Amar Supate
11.45 – 12.00		Interactive Session	
12.00 – 1.00	Lecture 3	Aquatic Chemistry	Dr. Jayant Mandalik
1.00 – 1.15		Interactive Session	
1.15 – 1.45	Lunch Break	-	-
1.45 – 2.45	Lecture 4	Water quality model	Mr. Amar Supate
2.45 – 3.00		Interactive Session	
3.00 – 6.30	Practical	--	-

Day 4: 29th July, 2011

Time	Activity	Topic of discussion	Conducted By
9.30 – 10.30	Lecture 1	Aquatic Chemistry	Dr. Jayant Mandalik
10.30 – 10.45		Interactive Session	
10.45 – 11.45	Lecture 2	Aquatic Microbiology	Mrs. Sayali Joshi
11.45 – 12.00		Interactive Session	
12.00 – 1.00	Lecture 3	Instrumentation for Environmental Monitoring	Mr. R. C. Vaidya
1.00 – 1.15		Interactive Session	
1.15 – 1.45	Lunch Break	-	-
1.45 – 2.45	Lecture 4	Legal Compliances – Acts, Rules, & Standards for water quality	Mr. Devale
2.45 – 3.00		Interactive Session	
3.00 – 6.30	Practical	--	-

Day 5: 30th July, 2011

Time	Activity	Topic of discussion	Conducted By
9.30 – 10.30	Lecture 1	Aquatic Microbiology	Mrs. Sayali Joshi
10.30 – 10.45		Interactive Session	
10.45 – 11.45	Lecture 2	Legal Compliances – Acts, Rules, & Standards for water quality	Mr. Devale
11.45 – 12.00		Interactive Session	
12.00 – 1.00	Lunch Break	-	-
1.00 – 3.30	Practical	--	-
3.45 – 4.15		Exam session	
4.15 – 5.00		Group discussion & Review Session	Dr. Sandeep Joshi

Day 6: 31st July, 2011

8.00 – onward		Field visit	
		Distribution of Certificates	

Organization

1. Shrushti Environment Academy (SEA), Pune
2. Shrishti Eco-Research Institute (SERI), Pune
3. Indian Environment Association (IEA) Pune Chapter
4. Aavanira Biotech Pvt. Ltd., Pune