

3. ADVANCED AND INNOVATIVE TECHNIQUES FOR ENVIRONMENT AND WATERSHED MANAGEMENT

Duration: 6 months

NSQF Level: 8

Course Co-ordinator: Dr. Raymond Duraiswami

Technical Assistant: Mr. Avinash D. Jamdhade

Objectives:

- To train the students in watershed management, environment protection and pollution monitoring and allied aspects related to industries.
- To develop skills in identifying, quantifying and analyzing environmental parameters.
- To enhance the knowledge to increase the availability of employment as well as to help the state level agencies and government schemes by using the blend of new techniques with the knowledge.

Course structure:

The course consists of lectures and practical training with leading figures from the world of watershed and environment. The course will also include visits to industries, for Environmental Audits, Geological survey, pollution monitoring etc. To complete the course, internships will be organized in organizations operating in the Environment and watershed Management sector. The course will be carried out in collaboration with organizations working in the field. Six months training will be provided that will include 150 hours theory and 300 hours of extensive field work and experimentation.

Syllabus of the Course:

Sr no.	Topics of the syllabus
1.	Introduction to Environment
2.	Environmental Audit (Related to water)
3.	Water budget and Water audit
4.	Water Quality and pollution monitoring
5.	Introduction to Survey Methods
6.	Exploration Methods and Logging
7.	Well Hydraulics and Artificial recharge
8.	Aquifer Management and PRA Techniques
9.	Case Studies and Field Visits
10.	Project

Core Team:

Sr no.	Name of the Members
1	Dr. N.R. Karmalkar, Professor, Dept. of Geology,SPPU.
2	Dr. Raymond Duraiswami, Asst.Professor, Dept. of Geology,SPPU
3	Dr.SureshGosavi, Head and Professor, Department of Environmnetal Sciences, SPPU.
4	Dr. V. Gunale, EmiritusProfessor,SPPU

5	Dr. Makarand Kale Professor, Dept of Geology, SPPU.
6	V. S. Patwardhan Environmental Audit Consultant
7	Dr. V. Krishnamurthy, Professor Geology
8	Mr. Ramesh Kulkarni Director, SoilTech India Pvt.Ltd.
9	Dr. N. J. Pawar Professor Geology(Retired)
10	Mr. N.V. Sharma Geophysicist, GSDA.
11	Mrs. Swamini Pandit, Environmental Legislation, SPPU, Pune
12	Shri. S. M. Deshpande, GSDA(retired), Pune.
13	Mr. Rohit Bhagwat Teaching Associate, Dept.Of EVS, SPPU
14	Mr. Pawan Soyam, Teaching Associate, Dept.Of EVS, SPPU
15	Dr. D.P. Mohanty Asst.Professor, Dept. of Geology, SPPU

16	Mr. SatishAwate CEE, Pune.
17	Mr. U. R. Patankar Director(retired), GSDA.
18	Mr. ManojChavan CDAC, Pune.
19	Mr. Yogesh Singh CDAC, Pune.
20	Mr.SureshKshirsagar Health and Safety Expert,Pune.
21	Ms.Amruta P. Patil HOD,Department of Civil Engineering, DYPIEMR,Akurdi,Pune.
22	Mr.Mayur A. Shinde Asst. Professor, Department of Civil Engineering, DYPIEMR,Akurdi,Pune.
23	Mr.Sachin S. Nalawade Asst. Professor, Department of Civil Engineering, DYPIEMR,Akurdi,Pune.
24	Mr.Sainand P. Khot Asst. Professor, Department of Civil Engineering, DYPIEMR,Akurdi,Pune.
25	AvinashD.Jamdhade Technical Assistant,DIC,SPPU