

Environmental Audit: A Tool for Sustainable Industrialization

3-8 February 2025

Organized by
Centre of Environmental Research and Technology
&

Applied Science & Humanities Department
Pacific School of Engineering, Surat



ABOUT INSTITUTE

Pacific School of Engineering (PSE) has commenced education in Degree and Diploma since 2012 for various discipline of engineering such as computer, chemical, civil, mechanical and electrical along with applied science (MSc IT). The Institute is approved by AICTE, New Delhi and affiliated to GTU, Ahmedabad. The Institute has an energetic team of highly qualified, dedicated, and experienced faculty members. The entire campus is facilitated with Wi-Fi connectivity and equipped with workshops and laboratories as per curriculum and some of them are NABL accredited to take up consultancy projects. The library is furnished with NPTEL open access lecture series to help students in attaining highest standards in academics, research and professional skills. Under the banner of SSIP Policy of Govt. of Gujarat, students are receiving financial support for their innovative project proposals. The Institute has very good track record of students' placements and internships at various esteemed industries. The Institute has bagged several prestigious awards including ISTE Best Chapter, SGCCI's Outstanding Research & Development and many more.

ABOUT DEPARTMENT

The laboratory of Centre for Environmental Research and Technology (CERT) is recognized as Schedule-I Environmental Auditor by the Gujarat Pollution Control Board, Gandhinagar. The laboratory is NABL accredited for more than 77 parameters as per ISO:IEC 17025:2017. In addition to this, it is ISO 9001:2015 certified. CERT is equipped with state of art equipments. Also, qualified faculties are taking care of various activities that are relevant to environmental pollution control, viz. Environmental audit, monitoring, testing, pollution load calculation, cleaner production assessment, treatability studies, etc. The research cell is also actively associated with various research and development activities in the area of resources recovery from hazardous waste, Plastic Waste Management, Biogas from napier grass, etc

ORGANIZING COMMITTEE

Chief Patron:

Mr. Nkhil Agrawal
Administration Head

Patron & Coordinator:

Prof. (Dr.) Yogesh Rotliwala
Principal & Professor (Exp > 30 years)
Chemical Engineering Deptt.
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Co-Coordinator:

Dr. Hiral Tailor
Associate Prof. & Head, (Exp > 18 yrs)
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REGISTRATION

No Charge for Registration, Course and Certification.

Last date for Registration: 31st January' 2025.

Follow the link for Registration:

<https://atalacademy.aicte-india.org/login>

- Log in using the credentials created during the sign up.
- After successfully filling general details, please click on "FDPs".
- Apply Filters - Type - ATAL
Month - February
Thrust Area - Engineering
Mode - Online
- Search for "Pacific" by pressing CTRL+F, you shall find "Title: Environmental Audit: A Tool for Sustainable Industrialization" (Application No: 1730782731). [Apply and confirm.](#)

Contact Us



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OBJECTIVE OF ATAL FDP SCHEME

The objective of ATAL FDP Scheme is " To Plan and help in imparting quality technical education in the country and to support technical institutions in fostering, research, innovation and entrepreneurship, through training in various emerging fields.

ABOUT WORKSHOP

Many Industrial sectors in India are resource intensive and polluting and are inadequately equipped with pollution control measures leaving a huge negative footprint on the environment. Reduction of these impacts is need of the hour. 'Environmental Audit' is a paramount approach to perform this activity. It is a tool to evaluate the impact of industrial processes on the environment, to identify possible solutions to reduce or eliminate such impacts and to assess the status of compliance to regulatory and other requirements. Environmental Audit also helps to identify solutions for efficient use of resources and greater adoption of clean and environmentally sound technologies for sustainable industrial development.

WHO SHOULD ATTEND?

In order to gain comprehensive understanding of advanced environmental audit practices for effective sustainable pollution control solutions, the faculty members of AICTE approved institutions, research scholars, PG scholars, participants from industries and staff of host institution can attend the FDP.

CONTENTS

- Introduction to Environment Audit Scheme
- Methodology to conduct Environmental Audit in Industry
- Advanced instrumentation for analytical practices for Environmental parameters
- SI Units and Correction to Stack Analysis
- Environmental Legislation
- Importance of Health and Safety in Industry
- Electrochemical technologies for wastewater treatment
- Concept of Zero Liquid Discharge (ZLD) for Common Effluent Treatment Plant (CETP) operations
- Air Pollution Control Equipments
- Resource recovery from Hazardous Wastes
- Outcome of Environmental Audit: A case study
- Cleaner Production: A tool to Environmental Management System
- Biochemical Reactor: A vanishing technique in industrial wastewater treatment
- Process simulation using ASPEN HYSIS for Solvent recovery from waste water.

EMINENT SPEAKERS



Dr. Sanjay Tewari

Associate Teaching Prof., Env. Engg. Deptt.
Missouri University of Science & Tech, USA
Years of Exp: > 30 years



Dr. Malvika Safaya

Water Treatment Coordinator,
Conuma Resources Limited, Canada
Years of Exp: > 11 years



Dr. Rakhi Mehta

Lead Process Engineer,
Maratex Environmental Inc, Canada
Years of Exp: > 25 years



Dr. Bharat Jain

Member Secretary,
Gujarat Cleaner Production Centre,
Gandhinagar -Years of Exp: > 40 years



Prof. D.J. Parikh

Rtd. Dy Director (SG),
National Institute of Occupational Health,
Ahmedabad
Years of Exp: > 40 years



Prof. Y. H. Oza

Rtd., Professor,
L.D. College of Engineering, Ahmedabad
Years of Exp: > 40 years



Mrs. Jigna B Pandya

Sr. Env. Engg.,
Unit Head- Audit Cell, GPCB, Gandhinagar
Years of Exp: > 30 years



Shri B.R. Naidu

Ex Director & Officer- In- charge,
Regional Directorate, CPCB, Vadodara
Years of Exp: > 40 years



Dr. R. A. Christian

Professor & Head, Civil Engg. Deptt,
SVNIT, Surat
Years of Exp: > 40 years



Dr. K.D. Yadav

Associate Prof, Civil Engg. Deptt,
SVNIT, Surat
Years of Exp: > 25 years



Mr. Shankar Karhale

Vice President,
M/s. Aarti Industries Ltd, Vadodara
Years of Exp: > 40 years



Mr. Ashish Mehta

Vice President, Technical Services,
Luthra Group of Industries, Surat
Years of Exp: > 25 years



Dr. Devang Gandhi

CEO. M/s. Pollucon Laboratories,
Surat.
Years of Exp: > 20 years

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FDP SCHEDULE

3 rd February 2025	4 th February 2025	5 th February 2025	6 th February 2025	7 th February 2025	8 th February 2025
<p>06:00 PM-06:30 PM INAUGURAL SESSION</p>	<p>06:00 PM to 07:30 PM <i>Session-3</i> DR. DEVANG GANDHI <i>CEO, M/s. Pollucon Laboratories Pvt. Ltd., Surat</i></p> <p><i>Topic</i> ADVANCED INSTRUMENTATION FOR ANALYTICAL PRACTICES FOR ENVIRONMENTAL PARAMETERS</p>	<p>06:00 PM to 07:30 PM <i>Session-5</i> SHRI B. R. NAIDU <i>Ex Director & Officer-in-charge, Regional Directorate, CPCB, Vadodara</i></p> <p><i>Topic</i> ENVIRONMENTAL LEGISLATION</p>	<p>06:00 PM to 07:30 PM <i>Session-7</i> DR. BHARAT JAIN <i>Member Secretary, GCPC, Gandhinagar</i></p> <p><i>Topic</i> CLEANER PRODUCTION: A TOOL TO ENVIRONMENTAL</p>	<p>06:00 PM to 07:30 PM <i>Session-9</i> DR. R.A.CHRISTIAN <i>Professor & Head, Civil Engg. Dept., SVNIT, Surat</i></p> <p><i>Topic</i> AIR POLLUTION CONTROL EQUIPMENTS</p>	<p>02:00 PM to 03:30 PM <i>Session-11</i> PROF. Y.H.OZA <i>Rtd. Prof., L.D. College of Engineering, Ahmedabad</i></p> <p><i>Topic</i> METHODOLOGY TO CONDUCT ENVIRONMENTAL AUDIT IN INDUSTRY</p>
<p>06:30 PM – 08:00 PM <i>Session-1</i> MRS. JIGNA B. PANDYA <i>Sr. Env. Engg., Unit Head- Audit Cell, GPCB, Gandhinagar</i></p> <p><i>Topic</i> INTRODUCTION TO ENVIRONMENT AUDIT SCHEME</p>	<p>07:30 PM to 09:00 PM <i>Session-4</i> DR. RAKHI MEHTA <i>Lead Process Engineer, Maratek Environmental Inc., Canada</i></p> <p><i>Topic</i> PROCESS SIMULATION USING ASPEN HYSIS FOR SOLVENT RECOVERY FROM WASTEWATER</p>	<p>07:30 PM to 09:00 PM <i>Session-6</i> PROF. D. J. PARIKH <i>Rtd. Dy Director (SG), NIOH, Ahmedabad</i></p> <p><i>Topic</i> IMPORTANCE OF HEALTH AND SAFETY IN INDUSTRY</p>	<p>07:30 PM to 09:00 PM <i>Session-8</i> DR. MALVIKA SAFAYA <i>Water Treatment Coordinator, Conuma Resource Ltd, British Columbia, Canada</i></p> <p><i>Topic</i> ADVANCED METHODS OF WASTEWATER TREATMENT</p>	<p>07:30 PM to 09:00 PM <i>Session-10</i> DR. K.D.YADAV <i>Associate Prof., Civil Engg. Dept., SVNIT, Surat</i></p> <p><i>Topic</i> RESOURCE RECOVERY FROM HAZARDOUS WASTES</p>	<p>03:30 PM to 05:00 PM <i>Session-12</i> MR. SHANKAR KARHALE <i>M/s. Aarti Industries Ltd., Vadodara</i></p> <p><i>Topic</i> OUTCOME OF ENVIRONMENTAL AUDIT: A CASE STUDY</p>
<p>08:00 PM to 09:30 PM <i>Session-2</i> DR. SANJAY TEWARI <i>Associate Teaching Prof., Missouri University of Science & Tech. USA</i></p> <p><i>Topic</i> ELECTROCHEMICAL TECHNOLOGIES FOR WASTE WATER TREATMENT</p>					<p>05:00 PM to 06:30 PM <i>Session-13</i> MR. ASHISH MEHTA <i>VP, Technical Service, Luthra Group of Industries, Surat</i></p> <p><i>Topic</i> CONCEPT OF ZERO LIQUID DISCHARGE (ZLD) FOR COMMON EFFLUENT TREATMENT PLANT (CETP) OPERATIONS</p>
					<p>06:30 PM-07:30 PM ONLINE TEST & FEEDBACK</p>
					<p>07:30 PM-08:00 PM VALEDICTORY SESSION</p>