

WHO SHOULD ATTEND

The participants will have the opportunity to obtain a broad working knowledge and gain insight into both present and advanced Vehicular Pollution related aspects. The program shall be beneficial for the participants as follows:

1. Senior Officers, RTOs / Dy. RTOs
2. Motor Vehicular Inspectors
3. Technical Person
4. Pollution monitoring staff

BOARDING/LODGING & OTHER AND OTHER FACILITIES DURING THE TRAINING PROGRAM

The Training Division of IIP has an Auditorium, a Conference room and two Lecture Theatres and these are equipped with latest audio-visual facilities including multimedia-projection facility. IIP can accommodate about 40 participants/faculty members in its Guest House - Hostel complex. We have a well equipped catering facilities at IIP premises and the Guest House. IIP is situated at a picturesque location, about 8 Km away from main Dehradun township at Dehradun-Haridwar road.

Participants can reach IIP from Bus Stand / Railway station by hiring Taxi / Auto rickshaw. Dehradun city is well connected by road and railways with Delhi and other major cities. The nearest airport is Jolly-grant which is about 23 Kms from Dehradun.

CONTACT ADDRESS

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CSIR-INDIAN INSTITUTE OF PETROLEUM
DEHRADUN 248 005
(UTTARAKHAND) INDIA



An ISO 9001 Accredited R&D Institute



Workshop-cum Training Program
on

**“ADVANCED AUTOMOTIVE TECHNOLOGY AND
INDIAN ROAD TRAFFIC PATTERNS – CHALLENGES
AND OPPORTUNITIES”**
(March 6 to 10, 2017)

for

Officers of Transport Departments of Different States

at CSIR-IIP, Dehradun

Sponsored by

Ministry of Road Transport & Highways

**Training Excellence at
CSIR-IIP**

BRIEF PROFILE OF CSIR-IIP

CSIR-Indian Institute of Petroleum (IIP) is located in the beautiful valley of Dehradun situated at the foothills of Himalayas. One of the constituent laboratories of the Council of Scientific & Industrial Research (CSIR), it is a premier organization dedicated to Research & Technology development in hydrocarbon sector. The Institute has continued its efforts to grow into an internationally renowned R&D organization, providing quality research and innovative technologies for the national and international market place and to provide technical support to the industry. IIP was established in September 1960 with initial technical collaboration with Institut Francais du Petrole (IFP), France. IIP is equipped with State-of-the-art equipment, bench/pilot scale facilities and other infra-structural support for research in petroleum refining, petrochemicals, alternate fuels and utilization of petroleum products as well. IIP assist refineries in absorption, adaptation and selection of technologies and in optimization of unit operations. It has more than 1900 publications in National and International journals. IIP has been granted 230 patents (in India & abroad) for several processes & products. Since 2010 onward IIP has also started a Professional Post Graduate Research Program in Engineering entitled "Advanced Petroleum Science & Technology".

IIP's AREAS OF COMPETENCE

- Advanced Refining Technologies
- Advanced Separation Processes
- Petrochemicals, Specialty Chemicals
- Petroleum Product Applications
- Crude Oil & Products Evaluation
- Biofuels / Renewables
- Training

OBJECTIVES OF TRAINING PROGRAM

IIP is organizing Workshop-cum-training program on **"ADVANCED AUTOMOTIVE TECHNOLOGY AND INDIAN ROAD TRAFFIC PATTERNS – CHALLENGES AND OPPORTUNITIES"** from March 6 to 10, **2017**, specially designed for the personnel of Road Transport Departments of various States, **Sponsored by Ministry of Road Transport & Highways, Government of India, New Delhi.** The program aims to go through the Challenges / Problems of Vehicular Pollution and troubleshooting. The latest developments and new applications of pollution monitoring devices shall be discussed and demonstrated in the laboratory. These programs are being updated as per the feedback received from the participants of the previous batches. It shall provide a complete package of classroom

FACULTY FOR THE TRAINING PROGRAM

Faculty for the program is mainly drawn from the working senior scientists/engineers in the respective areas of their R&D expertise. These scientists keep themselves abreast with the latest developments in respective area of work. This knowledge is shared with the participants in different training programs. In addition to the above, the institute invites guest faculty from Academic Institutions, R&D and Industry to supplement the available expertise in different areas.

PROGRAM DIRECTOR

Mr. Sunil Pathak, a mechanical engineer started his career with R&D of Yamaha Motor Company. He has visited Yamaha R&D at Japan for emission control of stationary engines and Austria for emission measurement related equipments. He is working at CSIR- Indian Institute of petroleum since 2005. Presently he is involved in projects based on alternative fuels, fuel conservation and emissions. He has presented more than 30 research papers in National and International forums related to above issues.



PROGRAM CONTENTS

[A] Classroom Presentation

- Basics of the I C engines and various efficiencies
- Parameters affecting fuel economy and emissions in vehicles/engines
- Worldwide Fuel Efficiency Norms and test methods
- Impact of road traffic on Fuel economy and Emissions
- GHG emission from various sectors (CO2 and others) and its impact on climate
- Hybrid and Electrical Vehicles : Current and future Scenario

[B] Practical / Lab Demonstrations

- Fuel economy and emission measurements in vehicles
- Fuel economy and emission measurements in Engines
- On-road fuel economy and CO2 emission measurement
- Electrical Vehicle