



ATMOS 2016

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[info@bits-atmos.org](mailto:info@bits-atmos.org)



Jawahar Nagar, Shameerpet Mandal  
Hyderabad, Telangana



## Petroleum Refining and Products Testing Workshop

Ever wondered where the really expensive petrol you fill in your cars comes from? Or how both Vaseline and kerosene are extracted out of a single substance? If you did, the Association of Chemical Engineers shares your sentiment, and is proud to present a two-day workshop based on the Petroleum Refining Process followed around the world. Through the medium of a comprehensive interactive session, explore the recesses of a petroleum factory, and appreciate the day-to-day work put in by engineers all over the world. Participants will also be given a practical demonstration through lab sessions.

This is a golden chance for budding petroleum engineers to gain vital knowledge in their chosen field, as well as a real opportunity for interested people to learn more about this sector of engineering.

### Objective of the workshop :

The main objective of the workshop is to share experiences in the field of petroleum refining among the potential engineers and nurturing them to take up careers in petroleum sector. A practical session (laboratory demonstration) on product analysis is also organized to inculcate familiarization about the various product-testing methods applied in the industry. The workshop will also be helpful for updating the technical know-how of the participants, an important asset for any student.

### Workshop breakup :

The whole workshop will be consisting of two days and eight sessions. The session and activity/topic details are as follows:

#### Day-1: Session-1, 9AM – 11AM

- Introduction and statistical information about crude & refinery
- Idea about Crude/ product characterization and testing methods
- Q/A



Rajat Bansal  
Technical Convenor  
+919912283346



Akshay Borude  
Hospitality & Accommodation  
+919912366272





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### Day-1: Session-2, 11.15AM - 1.15PM

- Separation of crude into various fractions
- Idea about various traditional and advanced conversion processes
- Q/A

### Day-1: Session-3&4, 2.15PM - 5.15PM

- Practical demonstration
  - ✓ Determination of cloud and pour point of diesel/lube oil
  - ✓ Determination of flash point of kerosene/diesel
  - ✓ Determination of RVP of gasoline/naphtha

### Day-2: Session-5, 9AM - 11AM

- Idea about various traditional and advanced conversion processes
- Major product quality improvement processes
- Q/A

### Day-2: Session-6, 11.15AM - 1.15PM

- Environmental aspects related to refining process
- Modern refinery configuration
- Q/A

### Day-2: Session-7, 2.15PM - 4.30PM

- Practical demonstration
  - ✓ Determination of aniline point of diesel/kerosene
  - ✓ Determination of KV of lube oil using Redwood Viscometer
  - ✓ Crude oil Distillation

### Day-2: Session-8: 4.45 pm-5.15pm

- Quiz based on workshop experience
- Distribution of Certificates and Prizes (to the best 3)

**Registration fee per participant:** Rs. **1000/-** by cash (registration fee does not include lunch/snacks)

**Maximum number of seats available: 50**



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