

V. P. R. P. T. P. Science College, Vallabh Vidyanagar

Add-on Certificate Courses

Course Title : Petroleum Testing
Coordinator : Dr. Pravinkumar M Patel., HOD, Industrial Chemistry Department.
Department : Industrial Chemistry
Duration : 30 Hours (Theory & Practical)
Content :

Theory: ASTM/BIS prescribed test methods for testing of petroleum products. The significance of tests and standard test method along with the practical performance of the test with respect to: Viscosity measurements using: Saybolt's Viscometer, Redwood Viscometer, Flash and Fire Point. Cleveland open cup method, Pensky Martin closed cup method, Distillation characteristic Cloud and Pour point determination, Smoke point determination, Diesel Index determination, Carbon Residue determination. Practicals: Related to the theory content.

Outcome of Course:

- ✓ To comprehend the basics of petroleum products examination and different ASTM methods.
- ✓ Knowledge of quality assurances and quality check of petroleum products.
- ✓ Hands on practice with regards to petroleum product testing, using Redwood, Saybolt's Viscometer equipment, etc.

Reference:

- ✓ Guide to ASTM Test Methods for the Analysis of Petroleum Products and Lubricants 2nd Edition R. A. Kishore Nadkarni.
- ✓ Handbook of Petroleum Product Analysis, 2nd edition, By James G. Speight , Wiley Publication House.
- ✓ Handbook of petroleum refining process R.A.Meyers, Mcgraw Hill, Book Com. New York.
- ✓ Modern Petroleum Refining Process by BhaskarRao (Oxford & IBH Publishing Co. Pvt. Ltd. – New Delhi)