20PEB328P					Petroleum Product Testing Practical					
Teaching Scheme					Examination Scheme					
L	Т	Р	С	Hrs/Week	Theory			Practical		Total
					MS	ES	IA	LW	LE/Viva	Marks
0	0	2	1	2	-	-	-	50	50	100

COURSE OBJECTIVES

- > To have the engineering knowledge of liquid petroleum products and their related repercussions.
- > To analyse the problem related to storage, transportation and use of petroleum products.
- To recognize the design aspects related to distillation methods.
- Properties determination of the petroleum product properties and Understanding the petroleum product aromatic properties.
- Week 1: Determination of Acid number of Fossils Oil Samples
- Week 2: Determination of percentage purity of refinery products by Auto Distillation Apparatus.
- Week 3: Determination of viscosity of a sample by Say Bolt Viscometer
- Week 4: Determination of Smoke point and find the Luminosity Number of given samples.
- Week 5: Determination of Calorific value of Coal, Lignite and Oil samples of different formation by Bomb Calorimeter.
- Week 6: Determination of Flash & fire point of Refinery Products by semi-automatic Pensky & Martin apparatus.
- Week 7: Determination of Flash & fire point b of Refinery Products by Cleveland open cup apparatus.
- Week 8: Determination of Cloud point and Pour point of given samples.
- Week 9: Determination of Aniline Point of a given samples of Refinery products
- Week 10: Determination of Diesel Index of given samples
- Week 11Determination of Cetane Number of given samples of Refinery Products.
- Week 12: Determine the moisture content of the given liquid fuel sample using dean and stark apparatus
- Week 13: Determine the saponification value of given oil sample

COURSE OUTCOMES

On completion of the course, student will be able to

- CO1: Preparing them to understand the experiments related to Midstream sector of oil and Gas refinery
- CO2: Estimate the calorific value of crude oil sample by Bomb Calorimeter
- CO3: Examine the flash and fire point of diesel and Kerosene oil.
- CO4: Estimate the aniline point of refinery products to confirm the organic contents
- CO5: Understand the Quality Assurance issues as per requirements of the industry practices.
- CO6: Assess the distillation characteristics of refinery products such as gasoline, diesel & Kerosene by auto distillation apparatus.

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks: 100 Exam Duration: 3 Hrs

PART A: Evaluation Based on the class performance and Laboratory book
PART B: Viva Examination based conducted experiments
50 Marks
50 Marks