

UG	Department: Chemical Engineering
Course Code: CHP314	Course Name: Petroleum Lab
Credit: 2	L-T-P: 0-0-3
Version: 1	Approved on:
Prerequisite Course: Nil	
<i>Any Eight Experiments need to be done from the followings:</i>	
<ol style="list-style-type: none"> 1. Determination of viscosity of given petroleum fraction using saybolt viscometer. 2. Determination of vapour pressure of gasoline using Reid Vapour pressure apparatus. 3. Determination of Aniline Point of given petroleum fraction. 4. Determination of Smoke Point of Kerosene. 5. Determination of Flash and fire Point of given petroleum fraction using Abel's flash point apparatus. 6. Determination of Flash and fire Point of given petroleum fraction using Pansky Martene's apparatus. 7. Determination of Cloud and pour Point of given petroleum fraction. 8. Determination of Carbon Residue of given petroleum fraction using Rams Bottom Carbon Residue apparatus. 9. Determination of Calorific value of given petroleum fraction using Bomb Calorimeter. 10. Distillation of crude oil or mixture of petroleum fractions. 	
Text/Reference books	
<ol style="list-style-type: none"> 1. Nelson, W. L., "Petroleum Refinery Engineering," 4th ed., McGraw Hill, 1987. 2. Garry, J. H. and Handwrek, G. E., "Petroleum Refining, Technology and Economics", 2nd ed., Marcel-Dekker. 3. Rao, B.K.B., Modern Petroleum Refining Processes, 4th ed., Oxford, IBH, 2002 4. Watkins, R.N. Petroleum Refinery Distillation, 2nd ed., Gulf Publishing, Houston, TX, 1981 5. Kobe, K. A. and McKetta, J. J., "Advances in Petroleum Chemistry and Refining", Wiley Interscience. 	