

Subject Code: 1ET4060503	Subject Title: Process Engineering Practices
Pre-Requisite	--

COURSE OBJECTIVE

To provide on-hand training of different control process required in oil and gas filed operations.

COURSE OUTCOMES

Exposure of different equipment

TEACHING AND EVALUATION SCHEME:

Teaching Scheme (Hours per week)				Evaluation Scheme (Marks)			
Lecture	Tutorial	Practical	Credit	Theory		Practical	
				University Assessment	Continuous Assessment	University Assessment	Continuous assessment
-	-	2	1	00	00	20	30

COURSE CONTENT:

Sr. No.	Name of Experiment	Contact Hrs
01	Introductions to process instrumentations i Pressure ii. Flow iii. Temperature	08
02	Study of Centrifugal pump Characteristics and to determine; Power Input, Shaft Output, Discharge, Total Head, Pump Output, Overall Efficiency and Pump Efficiency	04
03	To investigate- i. Fourier's law for linear conduction of heat along a simple bar. ii. Effect of Surface contact on thermal conduction. iii. The rate of heat transfer from radial steady conduction through a wall of cylinder.	06
04	Study of heat transfer in natural convection process, and determination of the Heat transfer coefficient of heated vertical cylinder, which is exposed to atmosphere.	04
05	To investigate the flow round a 90o bend in a duct of rectangular section using pressure tapings along the walls to establish pressure Co-efficient.	04
06	Study of mud pump	02