

17PEM131E					Petroleum Economics					
Teaching Scheme					Examination Scheme					
L	T	P	C	Hours/Week	Theory			Practical		Total Marks
					MS	ES	IA	LW	LE/Viva	
2	0	0	2	2	25	50	25	-	-	100

Unit I Hours: 6
 Background of the Oil and Gas Industry, Geopolitical history of Hydrocarbon exploration, Life cycle of Petroleum Project; Basics of Upstream and Downstream regulatory Laws and Policies

Unit-II, Hours: 6
 Fiscal System in hydrocarbon industry; Economic model of oil and Gas property; Time Value of Money; Project cash flow; Key Economic Parameters (Net Present Value; Internal Rate of Return);

Unit III Hours: 6
 Risk Analysis for Oil and Gas Property Evaluation; Risk and Uncertainty; Expected Monetary Value Concept; Decision tree and Simulation.

Unit IV Hours: 6
 Hydrocarbon trading-Oil trading, (Physical and Paper; Crude oil Markets- Spot, Barter, Future and forward); Oil and Gas Pricing mechanism; Hydrocarbon Strategic storage, Arbitration and dispute settlement

TEXT / REFERENCE BOOKS

- 1) Tordo, S (2007) Fiscal System in Hydrocarbons: design issues. The World Bank
- 2) Abdel-Aal and Alsahlawi (2013) Petroleum Economics and Engineering
- 3) Hinkin, C (2017) Introduction to Petroleum Economics

END SEMESTER EXAMINATION QUESTION PAPER PATTERN

Max. Marks: 100

Exam Duration: 3 Hrs.

PART A: Part A/Question: <Short Notes, Problems, Numericals>

20 Marks

PART B:<Justification, Criticism, Long answers, Interpretation >

80 Marks