5 th	RPP5D003	Integrated Oil & Gas Field	L-T-P	3
Semester		Evaluation	3-0-0	Credits

Module-I :

Geological studies—: Structural contour maps and various geological models. Estimation of reserves. Hydrodynaimic Study, techno-economic Evaluation for normal and marginal fields. Innovative ways to asset development.

Module-II:

Petroleum project evaluation-mineral project evaluation case studies. The design and evaluation of well drilling systems-Economic appraisal methods for oil field developmental project evaluation including risk analysis, probability and statistics in decision-making and evaluations. Case studies.

Module-III :

An integrated reservoir description in petroleum engineering-usage of geophysical, geological, petro physical and engineering data-emphasis on reservoir and well data analysis and interpretation, reservoir modeling (simulation), reservoir management (production optimization of oil and gas fields) and economic analysis (property evaluation)

Module-IV :

An integrated reservoir development in petroleum engineering-reservoir and well evaluation production optimization-nodal analysis, stimulation, artificial lift facilities-surveillance. Evaluation of well completions-placement of casing, liners and well tubing.Evaluation, performance of horizontal wells.Evaluation of acidization treatments.

Books:

- 1. Katz D.L.et a1., Natural Gas Engineering (Production & storage), McGraw-Hill, Singapore.
- 2. Standard Handbook of Petroleum and Natural Gas Engineering. 2nd Edition. William C Lyons, Gat'y C Plisga. Gulf ProfessionalPublishing,
- 3. Mc.Cray. A. W and Cole.F.W. 'Oil Well Drilling Technology' University of Olclalioma Press, Norman1959.