

S.NO	TEST NAME	TEST LAUNCH DATE	TEST DURARTION
1	RESERVOIR ENGINEERING-I	2-9-2019	1HR
2	DRILLING TECHNOLOGY – I	6-9-2019	1HR
3	ENGINEERING MATHEMATICS-I	10-9-2019	1HR
4	DRILLING TECHNOLOGY – II	14-9-2019	1HR
5	RESERVOIR ENGINEERING-II	18-9-2019	1HR
6	PETROLEUM PRODUCTION OPERATIONS-I	22-9-2019	1HR
7	GENERAL APTITUDE-I	26-9-2019	1HR
8	DIRECTIONAL DRILLING	30-9-2019	1HR
9	PETROLEUM PRODUCTION OPERATIONS-II	4-10-2019	1HR
10	WELL LOGGING	8-10-2019	1HR
11	ENGINEERING MATHEMATICS-II	12-10-2019	1HR
12	ENHANCED OIL RECOVERY TECHNIQUES	16-10-2019	1HR
13	PETROLEUM PRODUCTION OPERATIONS-III	20-10-2019	1HR
14	WELL TESTING	24-10-2019	1HR
15	ENGINEERING MATHEMATICS-III	28-10-2019	1HR
16	OFFSHORE DRILLING AND PRODUCTION PRACTICES	1-11-2019	1HR
17	HSE IN PETROLEUM INDUSTRY	5-11-2019	1HR
18	GENERAL APTITUDE-II	9-11-2019	1HR
19	LATEST TRENDS IN PETROLEUM ENGINEERING	13-11-2019	1HR
20	GENERAL APTITUDE-III	17-11-2019	1HR
21	RESERVOIR FULL TEST	21-11-2019	2HR
22	DRILLING FULL TEST	25-11-2019	2HR
23	PRODUCTION FULL TEST	29-11-2019	2HR
24	ENGINEERING MATHEMATICS FULL TEST	3-12-2019	2HR
25	FULL SYLLABUS TEST-I	10-12-2019	3HR
26	FULL SYLLABUS TEST-II	17-12-2019	3HR
27	FULL SYLLABUS TEST-III	24-12-2019	3HR
28	FULL SYLLABUS TEST-IV	30-12-2019	3HR
29	FULL SYLLABUS TEST-V	7-1-2020	3HR
30	FULL SYLLABUS TEST-VI	15-1-2020	3HR



1) DRILLING TECHNOLOGY – I : Well planning. Drilling method. Drilling rigs Rig operating systems. Drilling fluids function and properties. Drilling fluid maintenance equipment.

2)DRILLING TECHNOLOGY – II Oil & gas well cementing operations. Drill bit types and their applications. Drill string & Casing string function, operations, selection & design. Drilling problems, their control & remedies

3) DIRECTIONAL DRILLING Directional drilling tools. Directional survey. Application of horizontal, multilateral, extended reach, slim wells.

4)RESERVOIR ENGINEERING-I : Petrophysical properties of reservoir rocks. Coring and core analysis. Reservoir fluid properties. Phase behavior of hydrocarbon system.

5)RESERVOIR ENGINEERING-II . Flow of fluids through porous media. Water and gas coning. Reservoir pressure measurements. Reservoir drives, drive mechanics and recovery factors. Reserve estimation & techniques.

6)PETROLEUM PRODUCTION OPERATIONS-I Well equipments. Well completion techniques. Well production problems and mitigation. Well servicing &Workover operations. Workover& completion fluids. Formation damage. Well stimulation techniques

7)PETROLEUM PRODUCTION OPERATIONS-II Artificial lift techniques.

8)PETROLEUM PRODUCTION OPERATIONS-III Field processing of oil & gas. Storage and transportation of petroleum and petroleum products. Metering and measurements oil & gas. Production system analysis & optimization. Production testing. Multiphase flow in tubing and flow-lines. Nodal system analysis. Pressure vessels, storage tanks, shell and tube heat exchangers, pumps and compressors, LNG value chain

9)OFFSHORE DRILLING AND PRODUCTION PRACTICES Offshore oil and gas operations & ocean environment. Offshore fixed platforms, Offshore mobile units, Station keeping methods like mooring & dynamic positioning system. Offshore drilling from fixed platform, jack-up, ships and semi submersibles. Use of conductors and risers. Offshore well completion. Deep water applications of subsea technology. Offshore production: Oil processing platforms, water injection platforms, storage,



SPM and SBM transportation and utilities. Deep water drilling rig. Deep water production system. Emerging deep water technologies.

10) WELL LOGGING Evaluation of petrophysical of sub-surface formations: Principles applications, advantages and disadvantages of SP, resistivity, radioactive, acoustic logs and types of tools used. Evaluation of CBL/VDL, USIT, SFT, RFT. Production logging tools, principles, limitations and applications. Special type of logging tools. Casing inspection tools (principles, applications and limitations), Formations micro scanner (FMS), NMR logging principles. Standard log interpretation methods. Cross-plotting methods

11) WELL TESTING Diffusivity equation, derivation & solutions. Radius of investigation. Principle of superposition. Horner's approximation. Drill Stem Testing. Pressure Transient Tests: Drawdown and build up-test analysis. Wellbore effects. Multilayer reservoirs. Injection well testing. Multiple well testing. Interference testing, Pulse testing, well-test analysis by use of type curves. Gas well testing

12) HSE IN PETROLEUM INDUSTRY Health hazards in Petroleum Industry: Toxicity, Physiological, Asphyxiation, respiratory and skin effect of petroleum hydrocarbons, sour gases. Safety System: Manual & automatic shutdown system, blow down systems. Gas detection system. Fire detection and suppression systems. Personal protection system & measures. HSE Policies. Disaster & crisis management in Petroleum Industry. Environment: Environment concepts, impact on eco-system, air, water and soil. The impact of drilling & production operations on environment, Environmental transport of petroleum wastes. Offshore environmental studies. Offshore oil spill and oil spill control. Waste treatment methods.

13) ENHANCED OIL RECOVERY TECHNIQUES :Basic principles and mechanism of EOR, Screening of EOR process. Concept of pattern flooding, recovery efficiency, permeability heterogeneity. Macroscopic and microscopic displacement efficiency. EOR methods: Chemical flooding, Miscible flooding, Thermal recoveries (steam stimulation, hot water & steam flooding, in-situ combustion), Microbial EOR.

14) LATEST TRENDS IN PETROLEUM ENGINEERING: Coal bed methane, shale gas, oil shale, gas hydrate, and heavy oil.



15) ENGINEERING MATHEMATICS-I Linear Algebra , Calculus

16)ENGINEERING MATHEMATICS-IINumerical Methods, Differential equations

17)ENGINEERING MATHEMATICS-III.Complex variables,Probability and Statistics

18) GENERAL APTITUDE-I

19) GENERAL APTITUDE-II

20)GENERAL APTITUDE-III

21) RESERVOIR FULL TEST

22) DRILLING FULL TEST

23) PRODUCTION FULL TEST

24) ENGINEERING MATHEMATICS FULL TEST

25) FULL SYLLABUS TEST-I

26)FULL SYLLABUS TEST-II

27)FULL SYLLABUS TEST-III

28)FULL SYLLABUS TEST-IV

29)FULL SYLLABUS TEST-V

30)FULL SYLLABUS TEST-VI

PETRODICE

