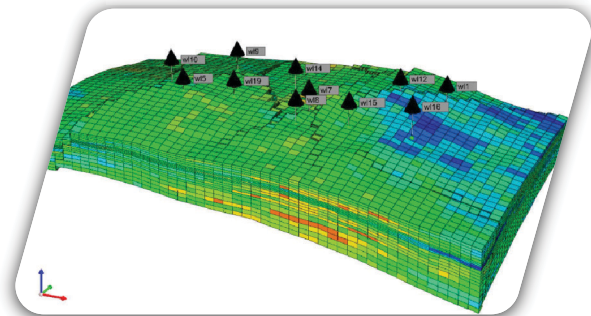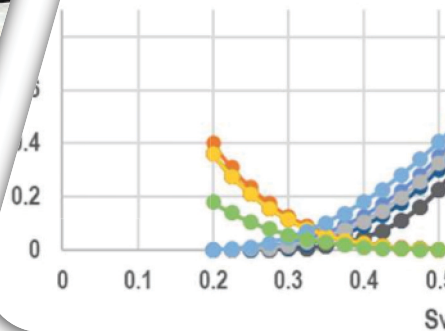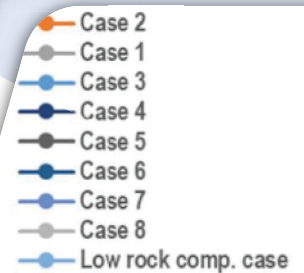# MASTERING RESERVOIR ENGINEERING FROM BASICS TO SOFTWARE-DRIVEN SOLUTIONS

Learning Objective

This course aims to equip participants with a solid understanding of reservoir engineering, starting from the geological framework to advanced modeling techniques. Learners will explore reservoir fluid behaviour, petrophysical interpretations, and drive mechanisms. They will also engage in practical applications such as core analysis, material balance, and secondary recovery methods. By the end of the course, participants will be able to apply both classical and advanced techniques in reservoir simulations.

Duration: 4 Weeks

Prerequisites:

A basic understanding of geology and fluid mechanics is recommended for new learners. Professionals with experience in reservoir behaviour and oil and gas operations will benefit more from the advanced aspects. No specific software knowledge is required, as it will be covered during the course.

Benefits of Learning (in terms of career)

O **Enhanced Career Opportunities:** Mastering reservoir engineering concepts and techniques can open doors to advanced roles in the oil and gas industry, such as reservoir engineer, geoscientist, or production specialist.

O **Competitive Edge:** Gaining expertise in advanced modeling, material balance, and enhanced oil recovery will make you a highly sought-after professional in exploration and production sectors.

O **Professional Growth:** This course equips you with the skills to tackle complex reservoir challenges, positioning you for leadership roles in projects involving simulation studies and reservoir management.

O **Versatility in Job Roles:** By learning a wide range of practical applications, from coring to fluid analysis, you can diversify into different areas of reservoir evaluation, boosting your job versatility and long-term career prospects.

Agenda:

Week 1

Day 1   Geological Framework, Geophysical Significances, Petrophysical Interpretation

Day 2   Reservoir Fluid Behaviour, Laboratory Analysis of Reservoir Fluids

Day 3   Coring and Core Analysis, Reservoir Rock Properties – I

Day 4   Reservoir Rock Properties – II

Week 2

**Day 5**   Reservoir Drive Mechanisms, Material Balance in Oil Reservoirs

Day 6   Fundamental Aspects of Gas Reservoir Engineering

Day 7   Material Balance in Gas Reservoirs, Decline Curve Analysis

Day 8   Water and Gas Coning, Water Influx

Week 3

Day 9   Secondary Recovery: Pressure Maintenance by Water Injection & Gas Injection

Day 10 Fundamentals of Enhanced Oil Recovery

Day 11 Implications to Reservoir Simulation Studies

Day 12 Overview of Several Reservoir Engineering Software's, Classical Reservoir Engineering Studies

Week 4

Day 13, 14, 15 & 16   Advanced Reservoir Modeling
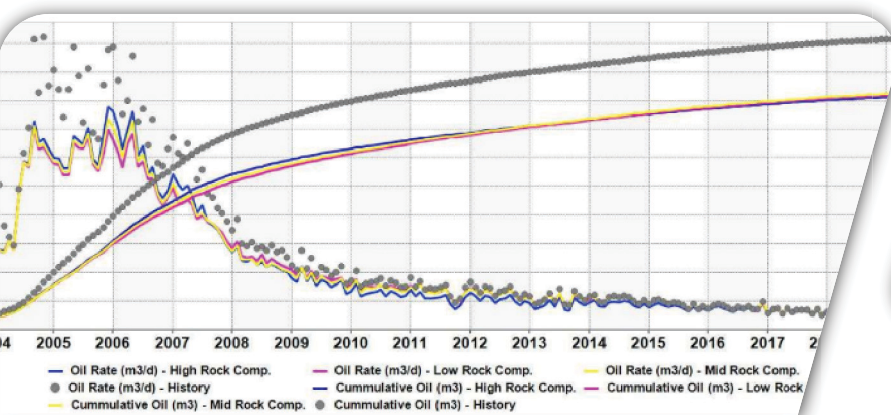
FAQs:

Will study materials be provided?

Yes, all relevant study materials, including lecture slides and reference articles, will be provided.

Can I access recordings if I miss a session?

Yes, recordings of each session will be available for participants to review at their own pace.

Is prior experience in reservoir engineering necessary to take this course?

Not necessarily. While some familiarity will be helpful, the course is structured to accommodate both beginners and professionals.

Are there any hands-on exercises in the course?

Yes, participants will engage in practical exercises, particularly in core analysis and reservoir simulations.

Will there be any assessments or certifications?

Yes, assessments will be conducted periodically, and participants who complete the course successfully will receive a certificate.

What will be course fees?

5K INR or 75 USD (Exciting Discount for first 10 participants)

How long will the course last?

The course will span 4 Weeks, with each day covering critical aspects of reservoir engineering, from fundamentals to advanced modeling.

Contact Us

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