



# 2 WEEKS ONLINE PRACTICAL TRAINING ON **DIGITALIZATION, DOWNHOLE COMMUNICATION, & PYTHON APPLICATION IN DRILLING ENGINEERING**



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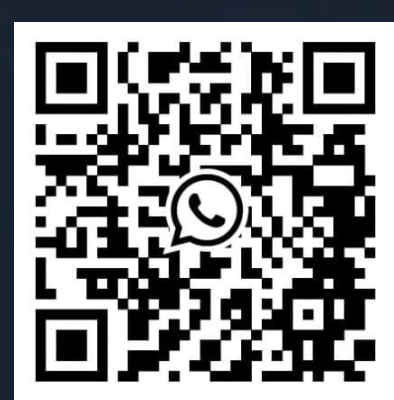
# DAY WISE AGENDA

## WEEK 1 (5 DAYS – 3 HR/DAY)

- Downhole communication system
- Data transmission
- Different drilling sequences and algorithms (MPD, CML, cementing, MPC, Well Control, Drilling hydraulics, etc.)
- Digitalization and coding with Python (basics)

## WEEK 2 (5 DAYS – 3 HR/DAY)

- Applying Python coding for different drilling calculations (Formulas)
- Applying Python coding for different drilling data usage (Graphs)
- Applying Python coding for different drilling sequences (Automation)
- ML application for different drilling sequences



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## **PRE-REQUISITES:**

The course is designed for drilling and geoscience engineers with knowledge of drilling engineering and also know Python coding

## **BENEFITS OF JOINING:**

Joining the "Digitalization, Downhole Communication, and Python Application in Drilling Engineering" course offers numerous benefits.

This course equips participants with advanced skills in automating drilling steps and optimizing drilling sequences, leading to increased efficiency and precision in drilling operations.

Through comprehensive training in data usage and downhole communication, attendees will learn to leverage real-time data for enhanced decision-making and problem-solving.

Additionally, the course delves into creating and implementing algorithms for various drilling processes, ensuring participants are well-versed in the latest digital tools and technologies in the industry.

Overall, this course provides the essential knowledge & practical skills needed to excel in modern drilling engineering.



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# ② WHY TO JOIN THIS COURSE / COURSE OUTCOMES:

Joining the "Digitalization, Downhole Communication, and Python Application in Drilling Engineering" course is a strategic step for professionals seeking to advance their careers in the drilling industry.

This course offers a thorough understanding of modern drilling technologies and methodologies, focusing on the automation of drilling steps and the optimization of drilling sequences.

Participants will gain hands-on experience in data usage and downhole communication, enabling them to effectively monitor and control drilling operations.

By learning to develop and apply algorithms for various drilling processes, attendees will be equipped to tackle complex challenges and improve operational efficiency.

Upon completion, participants will be proficient in leveraging digital tools and techniques, positioning themselves as valuable assets in the evolving field of drilling engineering.



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