

Location: Taaeen/ ADNOC

Date: April 2025

Duration: 4 Days

Fee: English

Course Title: Rock Physics - Integrating Petrophysical, Geomechanics, and Seismic Measurements

Learning Objectives:

- Understand the relationship between rock properties and seismic response.
- Integrate petrophysical and geomechanical data for subsurface characterization.
- Apply rock physics models to optimize reservoir development.

Target Audience:

- Geophysicists, Reservoir Engineers, and Petrophysicists
- Seismic Interpretation and Well Logging Specialists

Daily Course Outline:

Day 1: Fundamentals of Rock Physics

- Introduction to rock properties and fluid interactions
- Velocity, density, and attenuation models

Day 2: Seismic Response & Data Integration

- Seismic attributes and rock properties
- Borehole imaging and stress-strain analysis

Day 3: Rock Physics Models for Reservoir Characterization

- Predictive modeling and inversion techniques
- Petrophysical and geomechanical data integration

Day 4: Reservoir Development & Optimization

- Case studies on reservoir characterization
- Hands-on exercises in rock physics applications

