

Faculty of Engineering & Technology

Artificial Lift

Information :

Course Code : PE 504

Level : Undergraduate

Course Hours : 2.00- Hours

Department : Department of Petroleum Engineering

Instructor Information :

Title	Name	Office hours
Lecturer	Mohamed Ghareeb Moustafa Ahmed	6
Lecturer	Mohamed Ghareeb Moustafa Ahmed	6
Teaching Assistant	Abdelrahman Adel Abdullah Abdelghany Kandil	
Teaching Assistant	Taha Abdelhamid Abdelmaqsoud Abdelhamid Yehia	

Area Of Study :

Develop knowledge about Artificial lift, Gas lift methods and techniques.
Familiarize with ESP, PCP technology and beam pumping (SRP) theory.
Solve problems related to production performance for the main common artificial lift

Description :

This course is a study of artificial lift methods used to produce liquids (oil/water) from wellbores. Methods covered include sucker rod (piston) pumps, electric submersible pumps, gas lift, hydraulic lift and plunger lift.

Course outcomes :

a. Knowledge and Understanding: :

- 1 - Describe the artificial lift methods for oil well.
- 2 - Illustrate the criteria for the practical application of ESP technology and beam pumping theory.

b. Intellectual Skills: :

- 1 - Apply a creative and innovative way in artificial lift problem solving.
- 2 - Demonstrate various well and production option to select artificial lift method and engineering concepts to problem solving

c. Professional and Practical Skills: :

- 1 - Use well production with artificial lift tool
- 2 - Troubleshoot any artificial lift well problems related to production performance

d. General and Transferable Skills: :

- 1 - Work in team
- 2 - Effectively manage tasks, time, and resources

