

Eng. Rana Osama Saqer

Teaching Assistant

MSc, 2016, Petroleum Engineering

BSc., 2013, Petroleum Engineering

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Short Bio

Education

MSc in Petroleum Engineering, UAE University, UAE, 2016

BSc in Petroleum Engineering, UAE University, UAE, 2013

Short Bio

Performance-driven Petroleum Engineer with more than 7 years of teaching experience. She holds masters and bachelor's degrees in petroleum engineering from UAE University where she graduated and was among the top of her class. Upon graduation, she was appointed as Graduate Teaching Assistant in the Chemical and Petroleum Engineering department at UAE University. Eng. Rana joined Abu Dhabi Polytechnic in January 2015 as a Teaching Assistant where she contributed to the establishment of the Drilling Simulator (DrillSim 5000) lab. She actively participated in different committees within the department, and she is an active member in the preparations for eventual international (ABET) and local (CAA & NQA) accreditations.

Her main research areas are reservoir characterization modeling, unconventional reservoirs, and enhanced oil recovery methods. She is proficient at working independently and as part of a team, experienced in teaching variety of courses, exposed to different oil and gas industry standard software solutions and keen to work on challenging projects.

Eng. Rana has been selected and featured among the 100 Arab Youth Technology Fellowship and she has completed the program in August 2021.

Research Interests

- Reservoir rock and fluid characterization modeling
- Enhanced oil recovery methods

Publications

- Hadi Belhaj, Rabab Qaddoura, Bisweswar Ghosh, Rana Saqer: "Modeling Fluid Flow in Tight Unconventional Reservoirs: Nano Scale Mobility/Trapability Mechanistic Approach", SPE-198676-MS, Paper presented at the SPE Gas & Oil Technology Showcase and Conference, Dubai, UAE, October 2019.
- Alusta G, Saqer R, Mohsen H. Effect of Well Completion, Slug Size and WAP Timing on the Performance of Polymer Flooding. Int J Petrochem Res. 2019; 3(1): 280-285. doi: 10.18689/ijpr-1000148.

Teaching Courses

- Introduction to Petroleum Engineering
- Health & Safety at Work
- Drilling Technology I
- Reservoir Engineering I
- Reservoir Engineering II
- Enhanced Oil Recovery
- Petroleum Economics
- Selected Topics in Petroleum Engineering

- Well Control (OCT II)
- Cementing (OCT II)
- Workover (OCT II)
- Fluid Flow & Heat Transfer
- Calculus I
- Chemistry I Lab

Membership

- SPE