

Evaluation of the bachelor thesis – tutor

Author of evaluation: Jagar Ali, PhD

Thesis tutor: Jagar Ali, PhD

Thesis topic: Experimental Investigation of SDS Surfactant on Oil Recovery

Student: Rebaz Jamil

1. Basic evaluation of the thesis

The thesis is basically divided into two parts: background and experimental sections. It is well organized based on UPOL guidelines.

2. Corresponds thesis to the given assignment in full?

Yes, basically, as a bachelor thesis is a complete piece of work.

3. How do you evaluate the author's approach to the work?

The author presented a background related to the subject clearly. He shows all the used materials and chemicals in his experimental steps including the methodology of the work. The obtained results are promising and presented simply. Generally, he covered the necessary performed all the required experiments to complete an outstanding research study.

4. Evaluation of the formal side of the thesis

The student followed the guidelines of the UPOL. He used the formal structure of the university for writing his thesis including the referencing and citations. However, there are some minor mistakes in regard of grammar, organization, and citation:

- *Some abbreviations are not listed in the list of abbreviations, such as PIIP.*
- *There are some inconvenient references which are incorrectly listed and cited, such as:*
 - Properties of Petroleum Reservoirs, 2008*
 - Integrated Reservoir Asset Management, 2010*
- *The captions of some figures are too bad, such as figures: 1-7, 10, 13, and 15.*
- *What is the unit of CA on Figure 21.*
- *Quality of Figure 11 is not good.*
- *In Section 3.2.1., for how long of time the saturations of oil and water were achieved.*

- *The quality of Figure 9 is bad.*
- *This refeerence is not complete:
Synthesis and physiochemical characterization of zwitterionic surfactant for application in enhanced oil recovery. (2017). Journal of Molecular Liquids, [online] 243, pp.61–71. doi:10.1016/j.molliq.2017.08.032.*
- *The following reference is listed twice;
Jain, S., Pachisia, H., Sharma, A., Patel, S., Patel, S. and Ragunathan, B. (2022). A systematic review – Chemical EOR using surfactants and polymers. Materials Today: Proceedings.*

5. *Other insights, critical comments*

There is no good review of the literature related to the surfactant EOR.

6. *Comments on the document similarity protocol*

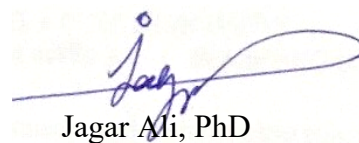
The thesis has a high similarity with his previously submitted version of the thesis on March. But this version is acceptable in terms of the similarity.

7. *Overall evaluation of the bachelor thesis*

I recommend the work for defense.

Overall evaluation: D

Erbil, 24.05.2023



Jagar Ali, PhD