

Course Description Form

1. Course Name: Reservoir Eng. I	
2. Course Code: PE300	
3. Semester / Year: 2024/2025	
4. Description Preparation Date: 17/12/2024	
5. Available Attendance Forms: attendance	
6. Number of Credit Hours (3) / Number of Units (96)	
7. Course administrator's name (mention all, if more than one name)	
Name: Alaa Shihaan Awad Email: alrikabyalaa@gmail.com	
8. Course Objectives	
Course Objectives 	- The ability to distinguish, identify, define, formulate and manage hydrocarbon reservoirs in an integrated manner. - Preserving and exploiting hydrocarbon wealth in a manner consistent with the requirements of the global market. - Knowledge of rock and fluid properties and changes that occur to them.
9. Teaching and Learning Strategies	
Strategy	The main strategy that will be adopted in delivering this unit is to encourage student participation in reservoir activities, while at the same time improving and expanding their critical thinking skills. This will be achieved through classroom and laboratory settings and considering the type of external research that includes some mathematical problems that interest the student.

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-3	9	Students will understand	Classification of Hydrocarbon Reservoir	Theoretical	Quizzes, monthly exams, final exam
4-6	9	Students will understand	Rock Properties (RCAL)	Theoretical	Quizzes, monthly exams, final exam
7-9	9	Students will understand	Rock Properties (RCAL)	Theoretical	Quizzes, monthly exams, final exam
10-12	9	Students will understand	Rock Properties (SCAL)	Theoretical	Quizzes, monthly exams, final exam
13-15	9	Students will understand	Rock Properties (SCAL)	Theoretical	Quizzes, monthly exams, final exam
16-18	9	Students will understand	Calculation of Hydrocarbon volume	Theoretical	Quizzes, monthly exams, final exam
19-21	9	Students will understand	Fluid properties (gas)	Theoretical	Quizzes, monthly exams, final exam
22-24	9	Students will understand	Fluid properties (gas+ oil)	Theoretical	Quizzes, monthly exams, final exam

25-27	9	Students will understand	Fluid properties (Oil)	Theoretical	Quizzes, monthly exams, final exam
28-30	9	Students will understand	Fluid properties (water)	Theoretical	Quizzes, monthly exams, final exam

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Ahmed Tarek Handbook
Main references (sources)	Ahmed Tarek Handbook
Recommended books and references (scientific journals, reports...)	Applied Reservoir Eng., B. C. Craft
Electronic References, Websites	Direct Science, SPE