Template of Course Specification

Name and Scientific title of the subject instructor: Dr. Abdulhussien Neamah Shnawa AL-attabi

Name of Course: Petroleum Engineering Economics-3d stage

Course Specification

1.	**Teaching Institution**	**Al-Ayen University / College of Petroleum Engineering**
2.	**University Department / Center**	Petroleum Engineering
3.	**Course Title / Code**	Petroleum EngineeringEconomic/PE308
4.	**Program(s) to which it contributes**	B.Sc. in petroleum Engineering
5.	**Modes of Attendance offered**	Class attendance
6.	Semester/Year	1st and 2nd, 2023
7.	Number of hours tuition (total)	60
8.	**Date of production/revision of this Specification**	Jan. 2023
9.	**Aims of the Course: The student will know the following:**	
	1	The significant of the economy for leading the country and oil prices effects on it.
	2	Analysis of engineering projects, risk analysis, production decline curve.
	3	Oil and gas reserve , Organizations of petroleum exporting and importing countries.
	4	analysis of engineering projects, risk analysis, production decline curve.
	5	Evaluation of future production of oil and gas well sand, expenditure and net present value.
10.	**Learning Outcomes, Teaching, Learning and Assessment Methods**	
	A	**Knowledge and understanding:** Oil and gas reserve and International supply and demand of petroleum,
	B	**Subject-specific skills:** Methods of engineering decision/depreciation amortization, taxation, inflation, sensitivity analysis of engineering projects.
	C	**Assessment methods:** The assessment method are divided into three parts; quizzes, monthly exams, and final exams.
	D	**Thinking Skills:. Economic analysis and evaluations - to**

	encourage students' participation and interaction and fostering atmosphere of tolerance and respect - to develop economic sensitivity of engineers
E	**Teaching and learning methods:** The teaching is performed theoretically based upon theoretical concepts of petroleum Engineering Economy..
F	**General and Transferable Skills (other skills relevant to employability and personal development):** The most important thing that a student learns when working in his field of specialization is how to make the decision to choose a successful project, avoid risks .and achieve profits for the company.

11.	**Course Structure**				
Week	**Hours**	**Required Teaching Outputs**	**Unit/Module or Topic Title**	**Teaching Methods**	**Assessment Methods**
1.	2	Student will understand	Introduction (Review of Fundamental Concepts of Economic of Petroleum Eegineering)	Theoretical	Quizzes, monthly exams, and final exams
2.	2	Student will understand	Oil and gas reserve	Theoretical	Quizzes, monthly exams, and final exams
3.	2	Student will understand	Types of oil and gas reserve.	Theoretical	Quizzes, monthly exams, and final exams
4.	2	Student will understand	Organization of exporting and importing Countries	Theoretical	Quizzes, monthly exams, and final exams
5.	2	Student will understand	Classification of Petroleum	Theoretical	Quizzes, monthly exams, and final exams
6.	2	Student will understand	Classification of petroleum	Theoretical	Quizzes, monthly exams, and final exams
7.	2	Student will understand	Petroleum Pricing	Theoretical	Quizzes, monthly exams, and final exams
8.	2	Student will understand	OPEC international oil exporting organization	Theoretical	Quizzes, monthly exams, and final exams

			concurrent force		
9.	2	Student will understand	OPEC and the quota system	Theoretical	Quizzes, monthly exams, and final exams
10.	2	Student will understand	Types of petroleum Contracts	Theoretical	Quizzes, monthly exams, and final exams
11.	2	Student will understand	The axes in the contracts	Theoretical	Quizzes, monthly exams, and final exams
12.	2	Student will understand	Alternative energy	Theoretical	Quizzes, monthly exams, and final exams
13.	2	Student will understand	International strategy of energy	Theoretical	Quizzes, monthly exams, and final exams
14.	2	Student will understand	Fundamental property of oil and gas	Theoretical	Quizzes, monthly exams, and final exams
15.	2	Student will understand	Evaluating and producing property	Theoretical	Quizzes, monthly exams, and final exams
16.	2	Student will understand	Evaluating and producing property	Theoretical	Quizzes, monthly exams, and final exams
17.	2	Student will understand	Time value of money	Theoretical	Quizzes, monthly exams, and final exams
18.	2	Student will understand	Types of interest	Theoretical	Quizzes, monthly exams, and final exams
19.	2	Student will understand	Types of interest	Theoretical	Quizzes, monthly exams, and final exams
20.	2	Student will understand	Rate of return	Theoretical	Quizzes, monthly exams, and final exams
21.	2	Student will understand	Methods of Engineering decision	Theoretical	Quizzes, monthly exams, and final exams
22.	2	Student will understand	Depreciation, depletion	Theoretical	Quizzes, monthly exams, and final exams
23.	2	Student will understand	inflation	Theoretical	Quizzes, monthly exams,

					and final exams
24.	2	Student will understand	Amortization, Taxation	Theoretical	Quizzes, monthly exams, and final exams
25.	2	Student will understand	Sensitivity analyzing of Engineering project	Theoretical	Quizzes, monthly exams, and final exams
26.	2	Student will understand	Risk analysis decline production curve	Theoretical	Quizzes, monthly exams, and final exams
27.	2	Student will understand	Risk analysis decline production curve	Theoretical	Quizzes, monthly exams, and final exams
28.	2	Student will understand	Evaluation of Future production of oil and gas sand well	Theoretical	Quizzes, monthly exams, and final exams
29.	2	Student will understand	Expenditure and net present value	Theoretical	Quizzes, monthly exams, and final exams
30.	2	Student will understand	Net present value and Review's	Theoretical	Quizzes, monthly exams, and final exams

12.	**Infrastructure**
Required reading: **·CORE TEXTS** **·COURSE MATERIALS** **· OTHER**	Economic Evaluation in the petroleum industry. Mohan Kelker,PH.D The university of Tulsa
Special requirements (include for example workshops, periodicals, IT software, websites)	• Petroleum Engineering Handbook Larry W. Lake, Editor-in-Chief • Chapter 16 – Petroleum Economics John D. Wright, SPE, Norwest Questa Engineering Corp. Pgs. 767-807 ISBN 978-1-55563-108-6 Get permission for reuse
Community-based facilities) include for example, guest Lectures, internship, field studies)	**.1** Principles of Petroleum Economics.pdf - **Course Hero** https://www.coursehero.com/file/63997342/Principles-of-Petroleum-Economicspd WebTo Summarize **Petroleum economics** is the voice that tells oil companies whether, for example, drilling

	an exploratory well, building a pipeline to connect an oil field to a refinery, or selling gasto a power station ought to make them richer or poorer. ...

13	The development of the curriculum plan
Adding more technical skills by introducing more Economic examples of Petroleum Companies Contracts	