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Undergraduate Programme in Physics

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MODULE HANDBOOK

Module Name	Exploration Geophysics for Oil and Gas
Module level, if applicable	Bachelor
Code, if applicable	FIS425079
Subtitle, if applicable	-
Courses, if applicable	Exploration Geophysics for Oil and Gas
Semester(s) in which the module is taught	6st (sixth)
Person responsible for the module	Dr. Thaqibul Fikri Niyartama, S.Si., M.Si
Lecturer(s)	Dr. Thaqibul Fikri Niyartama, S.Si., M.Si
Language	Indonesia
Relation to curriculum	Elective course in the third year (6th semester) Bachelor Degree
Type of teaching, contact hours	100 minutes lectures and 120 minutes structured activities per week.
Workload	Total workload is 90.7 hours per semester, which consists of 100 minutes lectures per week for 14 weeks, 120 minutes structured activities per week, 120 minutes individual study per week, in total is 16 weeks per semester, including mid exam and final exam
Credit points	2
Requirements according to the examination regulations	
Recommended prerequisites	No prerequisites stated on
Module objectives/intended learning outcomes	After completing this course, the students: CO 1. Able to explain the concept of the process of oil and gas formation and the geological conditions that accompany it CO 2. Able to compare and show how petrophysics and Geophysical rules for reservoir evaluation CO 3. Able to explain the concepts reservoir evaluation from geophysics perspective.
Content	a. The origins of petroleum b. Petroleum geology c. Evaluation of reservoir formation d. Properties of oil and natural gas, e. Recent developments in petroleum exploration f. Well logging g. Reservoir evaluation
Study and examination requirements and forms of examination	The final mark will be weighted as follows:

NO	Assessment methods (components, activities)	Weight (percentage)

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1	Final Examination	40%
2	Mid-Term Examination	30%
3	Class Activities: Quiz, Homework, etc.	30%

The final assessment is expressed in the form of a letter value converted from a number value with the following categories:

NO	Number Value	Letter Value	NO	Number Value	Letter Value
1	≥ 95	A	7	65-69.99	B/C
2	90-94.99	A-	8	60-64.99	C+
3	85-89.99	A/B	9	55-59.99	C
4	80-84.99	B+	10	50-54.99	C-
5	75-79.99	B	11	55-34.99	D
6	70-74.99	B-	12	<35	E

Media employed	White-board, Lcd Projector, e-learning (https://daring.uin-suka.ac.id/)
Reading list	1. Chapman, R.E., 1976, Petroleum Geology, Second Reprint, Elsevier Scr. Publishing Co., New York. 2. Ellis, D. V., dan Singer, J. M,, J., 2007, Well logging for earth scientist, 2nd ed., Springer

PLO and CO Mapping

	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
CO 1		√	√	√					
CO 2		√	√	√					
CO 3		√	√	√					