

COURSES CODE	COURSES NAME	SKS	CHARACTERISTIC
EL2043	Industrial Electronics	3	Mandatory
FI1101	Elementary Physics IA	4	Mandatory
FI1201	Elementary Physics IIA	4	Mandatory
GL2111	Physical Geology	3	Mandatory
GL3053	Sedimentology and Stratigraphy	3	Mandatory
GL3251	Petroleum Geology	3	Mandatory
IF2132	Computer Programming	3	Mandatory
KI1101	General Chemistry IA	3	Mandatory
KI1201	General Chemistry IIA	3	Mandatory
KU1001	Sports	2	Mandatory
KU1011	Indonesian Language: Scientific Writing	2	Mandatory
KU1072	Introduction to Information Technology B	2	Mandatory
KU1101	Introduction to Engineering and Design I	2	Mandatory
KU1164	Introduction to Mineral and Energy Resources	2	Mandatory
KU1201	Introduction to Engineering and Design II	2	Mandatory
KU2071	Pancasila and Civic Education	2	Elective
MA1101	Mathematics IA	4	Mandatory
MA1201	Mathematics IIA	4	Mandatory
MA2081	Elementary Statistics	3	Mandatory
MA3072	Numerical Method	3	Mandatory
MS2021	Fundamental of Engineering Mechanics	3	Mandatory
TK3081	Elementary Thermodynamics A	3	Mandatory
TK3082	Introduction to Transport Phenomena A	3	Mandatory
TM2108	Fluid Properties Lab	3	Mandatory
TM2121	Partial Differential Equations for Petroleum Engineering	3	Mandatory
TM2209	Petrophysics Lab	3	Mandatory
TM3000	Practical Training & Report Writing	1	Mandatory
TM3101	Drilling Engineering I Lab	3	Mandatory
TM3104	Production Engineering	3	Mandatory
TM3110	Reservoir Engineering I	3	Mandatory
TM3113	Well Testing	3	Mandatory
TM3202	Drilling Engineering II	3	Mandatory
TM3205	Surface Facilities & Transportation	3	Mandatory
TM3206	Artificial Lift Well Design	3	Mandatory
TM3207	Well Completion & Workover	3	Mandatory
TM3211	Reservoir Engineering II	3	Mandatory
TM3214	Well Log Analysis	3	Mandatory
TM4019	Geothermal Engineering	3	Elective
TM4020	Unconventional Hydrocarbon Recovery	3	Elective
TM4021	Energy Economy	3	Elective
TM4022	Carbonate and Naturally Fractured Reservoirs	3	Elective
TM4023	Field Plan of Development	3	Elective
TM4024	Reservoir Data Analysis	3	Elective
TM4025	Oil and Gas Field Development Optimization	3	Elective
TM4026	Geothermal Field Development	3	Elective

TM4028	Horizontal Drilling System	3	Elective
TM4029	Special Topics in Drilling Engineering	3	Elective
TM4030	Production Problematic	3	Elective
TM4031	Petro. Artificial Intelligence	3	Elective
TM4032	Regulation of Petroleum Industry	3	Elective
TM4033	Production Logging	3	Elective
TM4034	Petroleum Geostatistics	3	Elective
TM4099	Final Project	3	Mandatory
TM4107	Well Stimulation	2	Mandatory
TM4112	Reservoir Characterization & Modeling	3	Mandatory
TM4116	Improvement of Oil Recovery	3	Mandatory
TM4215	Petroleum Economic and Project Management	3	Mandatory
TM4217	Natural Gas Engineering	3	Mandatory
TM4235	Environmental Control in Petroleum Operation	2	Mandatory