

Course Structure Diagram with Course Credits

1 st Year Fall Semester						
Course Code	Pre.	Course Name	Theory	Application/Laboratory	Local Credits	ECTS
CHM101		General Chemistry	4	2	4	5
ECC 101		Introduction to Programming	3	1	3	5
ENG101		English I	3	0	3	3
MTH 101		Calculus I	4	0	4	5
PGE 101		Introduction to Petroleum Engineering	3	0	3	5
PHY 101		General Physics I	4	2	4	5
CHC100		Cyprus History and Culture	2	0	2	2
Total						30
1 st Year Spring Semester						
Course Code	Pre.	Course Name	Theory	Application/Laboratory	Local Credits	ECTS
CHM 102		Physical Chemistry	3	0	3	5
ENG102		English II	3	0	3	3
MTH102		Calculus II	4	0	4	6
PHY 102		General Physics II	4	2	4	6
TDE 102		Technical Drawing	3	1	3	6
YIT 101 TUR 101		Turkish for Foreigners I Turkish Language	2	0	2	2
CAR 100		Career Planning	2	0	0	2
Total						30
2 nd Year Fall Semester						
Course Code	Pre.	Course Name	Theory	Application/Laboratory	Local Credits	ECTS
ECC 207		Thermodynamics	4	0	4	6
ECC 211		Engineering Materials	4	0	4	6
MTH 201		Differential Equations	4	0	4	6

PGE 201		General Geology	3	0	3	5
PGE 221		Engineering Mechanics	3	0	3	5
YIT102 TUR 102		Turkish for Foreigners II Turkish Language II	2	0	2	2
Total						30

2nd Year Spring Semester

Course Code	Pre.	Course Name	Theory	Application/Laboratory	Local Credits	ECTS
ECC 213		Strength of Materials	4	0	4	6
MTH 323		Numerical Analysis	3	0	3	5
PGE 202		Petroleum Geology	3	0	3	6
PGE 218		Rock Properties	3	0	3	5
PGE 220		Fluid Properties	3	0	3	5
NTE		Non- Technical Elective	3	0	3	3
Total						30

3rd Year Fall Semester

Course Code	Pre.	Course Name	Theory	Application/Laboratory	Local Credits	ECTS
MTH 251		Statistics and Probability	3	0	3	5
PGE 300		Summer Practice I	0	0	0	8
PGE 301		Introduction to Fluid Mechanics	4	0	4	6
PGE 303		Production Engineering I	3	0	3	5
PGE 305		Reservoir Engineering I	3	0	3	5
PGE 307		Drilling Engineering I	3	0	3	5
AIT103 AIT 101		Principles of Atatürk and the History of Turkish Revolution I	2	0	2	2
Total						36

3rd Year Spring Semester

Course Code	Pre.	Course Name	Theory	Application/Laboratory	Local Credits	ECTS
PGE 304		Production Engineering II	3	0	3	5
PGE 306		Reservoir Engineering II	4	0	4	5
PGE 308		Drilling Engineering II	4	0	4	5
PGE 310		Oil and Gas Pipeline System	3	0	3	5
PGE 312		Well Logging	3	0	3	5

UTE		Unrestricted Technical Elective	3	0	3	5
Total						30
4 th Year Fall Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
PGE 400		Summer Practice II	0	0	0	8
PGE 403		Natural Gas Engineering	3	0	3	5
PGE 405		Engineering Design	3	0	3	6
PGE 411		Petroleum Property Valuation	3	0	3	5
AIT 104 AIT 102		Principles of Atatürk and the History of Turkish Revolution II	2	0	2	2
TE		Technical Elective	3	0	3	5
TE		Technical Elective	3	0	3	5
Total						36
4 th Year Spring Semester						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
PGE 402		Graduation Project	3	0	3	5
ECC 426		Economics for Engineers	3	0	3	5
TE		Technical Elective	3	0	3	5
TE		Technical Elective	3	0	3	5
TE		Technical Elective	3	0	3	5
TE		Technical Elective	3	0	3	5
Total						30
Elective Courses						
Course Code	Pre.	Course Name	Theory	Application/ Laboratory	Local Credits	ECTS
PGE 407		Reservoir Characterization	2	2	3	5
PGE 408		Geophysical Analysis	3	0	3	5
PGE 409		Process Control and Instrumentation	3	0	3	5
PGE 410		Special Topics in Petroleum and Natural Gas Engineering	3	0	3	5
PGE 412		Reservoir Rock and Fluid Properties	3	0	3	5
PGE 413		Globalization and Petroleum Politics	3	0	3	5

PGE 414		Transport Phenomena in Geosystems	3	0	3	5
PGE 415		Pipeline Transportation Systems	3	0	3	5
PGE 416		Environmental Control in Petroleum Engineering Operations	3	0	3	5
PGE 417		Petroleum and Refining Processes	3	0	3	5
PGE 418		Oil Transportation and Storage	3	0	3	5
PGE 419		Health & Safety and Risk Management	3	0	3	5
PGE 420		Project Management	3	0	3	5
PGE 421		Introduction to Geothermal Reservoir Engineering	2	2	3	5
PGE 422		Enhanced Oil Recovery	3	0	3	5
PGE 423		Pressure Control	3	0	3	5
PGE 424		Physical and Engineering Properties of Rocks	3	0	3	5
PGE 425		Directional Drilling	3	0	3	5
PGE 426		Petroleum Geochemistry	3	0	3	5
PGE 427		Well Stimulation	3	0	3	5
PGE 428		Transportation and Storage of Natural Gas	3	0	3	5
PGE 429		Well Design Control	3	0	3	5
PGE 430		Hydrocarbon Geophysics	2	2	3	5
PGE 431		Geological Maps and Cartography	3	0	3	5
PGE 432		Safety & Environmental Protection	3	0	3	5
PGE 433		Well Design	3	0	3	5
PGE 434		Individual Study	3	0	3	5
PGE 435		Petroleum Fuels Market & Segment	3	0	3	5
PGE 436		Simulating of Geosystems	3	0	3	5
PGE 437		Well Test Analysis	3	0	3	5
PGE 438		Eastern Mediterranean Hydrocarbon Geopolitics	3	0	3	5
PGE 439		LPG Technology and Sector	3	0	3	5