

## **DEPARTMENT OF PETROLEUM ENGINEERING**

<b>100 LEVEL 1ST SEMESTER</b>						
<b>COURSE CODE</b>	<b>COURSE TITLES</b>	<b>UNITS</b>				<b>PRE-REQUISITES</b>
		<b>L</b>	<b>T</b>	<b>P</b>	<b>CU</b>	
CHM 101	Foundation Chemistry I	2	1	3	4	-
GNS 101	Use of English Language I	2	0	0	2	-
GNS 201	Library and Information Science	2	0	0	2	-
MTH 111	Elementary Algebra I	2	1	0	3	-
MTH 112	Calculus I	2	1	0	3	-
PHY 171	Basic Experimental Physics	0	0	3	1N E	-
PHY 183	Introductory Mechanics and Properties of Matter	2	1	0	3	-
PHY 184	Introduction to Heat, Wave and Sound	2	1	0	3	-
<b>TOTAL UNITS</b>					<b>21</b>	

<b>200 LEVEL 1ST SEMESTER</b>						
<b>COURSE CODE</b>	<b>COURSE TITLES</b>	<b>UNITS</b>				<b>PRE-REQUISITES</b>
		<b>L</b>	<b>T</b>	<b>P</b>	<b>CU</b>	
CE 211	Strength of Materials I	1	1	0	2	-
CHM 201	Introductory Chemistry	3	0	3	5	-
EE 211	Electrical Engineering Fundamentals I	2	1	0	3	-
EG 210	Engineering Laboratory I	0	0	9	3	-
ES 217	Engineer in Society	2	0	0	2	-
GNS 301	Entrepreneurship and Innovation	2	0	0	2	-
ME 212	Engineering Drawing I	1	0	3	2	-
ME 214	Workshop Practice I	0	0	3	1	-
MTH 212	Mathematical Methods I	2	1	0	3	-
<b>TOTAL UNITS</b>					<b>23</b>	

<b>300 LEVEL 1ST SEMESTER</b>						
<b>COURSE CODE</b>	<b>COURSE TITLES</b>	<b>UNITS</b>				<b>PRE-REQUISITES</b>
		<b>L</b>	<b>T</b>	<b>P</b>	<b>CU</b>	
CHE 311	Transport Phenomena I	3	1	0	3	-
CHE 312	Chemical Engineering Thermodynamics	3	0	0	3	-
EA 311	Introductory Engineering Statistics	2	1	0	3	-
GEO 311	Principles of Geophysics	3	0	0	3	-
PEE 311	Petroleum Production Engineering I	3	0	0	3	-
PEE 312	Drilling Engineering I	3	0	0	3	-
PEE 313	Reservoir Engineering I	3	0	0	3	-
PEE 314	Petroleum Engineering Laboratory I	0	0	6	2	-
<b>TOTAL UNITS</b>					<b>23</b>	

<b>400 LEVEL 1ST SEMESTER</b>						
<b>COURSE CODE</b>	<b>COURSE TITLES</b>	<b>UNITS</b>				<b>PRE-REQUISITES</b>
		<b>L</b>	<b>T</b>	<b>P</b>	<b>CU</b>	
CHE 413	Chemical Engineering Thermodynamics II	2	1	0	3	CHE312
ENG 411	Technical Communications	1	1	0	2	-
ME 417	Law and Management I	2	0	0	2	-
PEE 411	Oil Pollution and Control	2	0	0	2	-
PEE 412	Petroleum Production Engineering II	3	0	0	3	PEE 311
PEE 413	Drilling Engineering II	3	0	0	3	PEE 312
PEE 414	Natural Gas Engineering	3	0	0	3	-
PEE 415	Formation Evaluation	3	0	0	3	-
PEE 416	Petroleum Engineering Laboratory III	0	0	6	2	PEE 314
<b>TOTAL UNITS</b>					<b>23</b>	

<b>500 LEVEL 1ST SEMESTER</b>						
<b>course</b>	<b>COURSE TITLES</b>	<b>UNITS</b>				<b>PRE-REQUISITES</b>
		<b>L</b>	<b>T</b>	<b>P</b>	<b>CU</b>	
PEE 511	Petroleum Engineering Production III	3	0	0	3	PEE 411
PEE 512	Drilling Engineering III	3	0	0	3	PEE 413
PEE 513	Well Testing	3	0	0	3	-
PEE 514	Reservoir Engineering II	3	0	0	3	PEE 313
PEE 515	Multiphase Flow in Pipes	3	0	0	3	-
PEE 516	Petroleum Engineering Laboratory IV	0	0	6	2	PEE 412
<b>500 LEVEL 1ST SEMESTER ELECTIVES</b>						
PEE 517	Petroleum Engineering Rock Mechanics	3	0	0	3	-
GEO 517	Applied Geophysics and Exploration	3	0	0	3	-
<b>TOTAL UNITS</b>					<b>20</b>	

**DEPARTMENT OF PETROLEUM ENGINEERING (2ND SEMESTER)**

<b>100 LEVEL 2ND SEMESTER</b>						
<b>COURSE CODE</b>	<b>COURSE TITLES</b>	<b>UNITS</b>				<b>PRE-REQUISITES</b>
		<b>L</b>	<b>T</b>	<b>P</b>	<b>CU</b>	
CHM 102	Foundation Chemistry II	2	1	3	4	-
CS 142	Foundation Computer I	1	0	1	3	-
GNS 102	Use of English Language II	2	0	0	2	-
GNS 202	Nigerian People and Culture	2	0	0	2	-
MTH 121	Elementary Algebra II	3	1	0	4	-
MTH 122	Calculus II	3	0	0	4	-
PHY 172	Basic Experimental Physics II	0	0	3	1NE	-
PHY 188	Introductory Electricity and Magnetism	2	1	0	3	-
<b>TOTAL UNITS</b>					<b>23</b>	

<b>200 LEVEL 2ND SEMESTER</b>						
<b>COURSE CODE</b>	<b>COURSE TITLES</b>	<b>UNITS</b>				<b>PRE-REQUISITES</b>
		<b>L</b>	<b>T</b>	<b>P</b>	<b>CU</b>	
CE 222	Strength of Materials II	1	1	0	2	CE 211
CHM 231	Organic Chemistry	2	0	1	3	CHM 201
EE 222	Electrical Engineering Fundamentals II	3	1	0	3	EE 211
GNS 222	Peace and Conflict Resolution	2	0	0	2	-
ME 223	Engineering Drawing II	2	0	0	2	ME 212
ME 225	Workshop Practice II	1	0	3	1	-
ME 226	Material Science	0	0	3	2	-
MTH 222	Mathematical Methods II	2	0	1	3	MTH 212
PEE 221	Basic Petroleum Engineering	2	0	0	2	-
<b>TOTAL UNITS</b>					<b>20</b>	

<b>300 LEVEL 2ND SEMESTER</b>						
<b>COURSE CODE</b>	<b>COURSE TITLES</b>	<b>UNITS</b>				<b>PRE-REQUISITES</b>
		<b>L</b>	<b>T</b>	<b>P</b>	<b>CU</b>	
CHE 321	Transport Phenomena II	3	0	0	3	-
CHE 326	Computer Applications in Chemical Engineering	3	0	0	3	-
EA 321	Topics in Engineering Mathematics	2	1	0	3	-
GEO 314	Sedimentary Environment & Basin Analysis	3	0	0	3	-
GNS 302	Business Creation and Growth	2	0	0	2	-
PEE 321	Well Engineering	3	0	0	3	-
PEE 322	Petroleum Engineering Laboratory II	0	0	6	2	PEE 314
PEE 323	Drilling Fluids Technology	3	0	0	3	-
<b>TOTAL UNITS</b>					<b>22</b>	

<b>500 LEVEL 2ND SEMESTER</b>						
<b>COURSE CODE</b>	<b>COURSE TITLES</b>	<b>UNITS</b>				<b>PRE-REQUISITES</b>
		<b>L</b>	<b>T</b>	<b>P</b>	<b>CU</b>	
ME522	Law and management II	1	1	0	2	ME 417
PEE 521	Petroleum Refining Technology	3	0	0	3	-
PEE 522	Offshore Operations	2	0	0	2	-
PEE 523	Petroleum Economics	3	0	0	3	-
PEE 524	Reservoir Modelling & Simulation	3	0	0	3	-
PEE 525	Research Project	0	0	6	6	-
PEE XXX	Elective II	3	0	0	3	-
<b>TOTAL UNITS</b>					<b>22/23</b>	

<b>500 LEVEL 2ND SEMESTER ELECTIVES- II</b>						
<b>COURSE CODE</b>	<b>COURSE TITLES</b>	<b>UNITS</b>				<b>PRE-REQUISITES</b>
		<b>L</b>	<b>T</b>	<b>P</b>	<b>CU</b>	
PEE 526	Enhanced Oil Recovery	3	0	0	3	-
GEO 502	Petroleum Geology	3	0	0	4	-