

# STUDY PLAN

At the College of Petroleum Engineering in the Syrian Private University

College of Petroleum Engineering based system of credit hours at a rate of 177 credit hours in ten semesters, namely:

## First year – Semester (1)

Course Code	Course Name	Credit Hours	Theoretical	Practical	Prerequisite
PE1101	GENERAL PHYSICS	4	3	3	
PE1102	CALCULUS I	3	3	0	
PE1103	CHEMISTRY I	3	2	3	
PE1104	ENGINEERING MECHANICS –STATICS	3	3	0	
PE1105	ARABIC LANGUAGE	2	2	0	
PE1106	ENGLISH I	3	2	2	
Total		18	15	8	

## First year - Semester (2)

Course Code	Course Name	Credit Hours	Theoretical	Practical	Prerequisite
PE1207	PHYSICS II	4	3	3	
PE1208	CALCULUS II	3	3	0	
PE1209	CHEMISTRY II	3	2	3	
PE1210	ENGINEERING GRAPHICS	2	1	3	
PE1211	GENERAL GEOLOGY	3	2	2	
PE1212	ENGLISH II	3	2	2	
Total		18	13	13	

### Second year - Semester (3)

Course Code	Course Name	Credit Hours	Theoretical	Practical	Prerequisite
<b>PE2101</b>	<b>ENGINEERING MECHANICS – DYNAMICS</b>	<b>3</b>	<b>2</b>	<b>2</b>	
<b>PE2102</b>	<b>INTRODUCTION of PETROLEUM ENGINEERING</b>	<b>3</b>	<b>3</b>	<b>0</b>	
<b>PE2103</b>	<b>PHYSICAL GEOLOGY</b>	<b>3</b>	<b>2</b>	<b>2</b>	
<b>PE2104</b>	<b>ELECTRICAL ENGINEERING</b>	<b>4</b>	<b>3</b>	<b>3</b>	
<b>PE2105</b>	<b>ORDINARY DIFFERENTIAL EQUATIONS</b>	<b>2</b>	<b>2</b>	<b>0</b>	
<b>PE2106</b>	<b>ANALYTICAL CHEMISTRY</b>	<b>3</b>	<b>1</b>	<b>6</b>	
Total		<b>18</b>	<b>13</b>	<b>13</b>	

### Second year - Semester (4)

Course Code	Course Name	Credit Hours	Theoretical	Practical	Prerequisite
<b>PE2207</b>	<b>NUMERICAL METHODS</b>	<b>2</b>	<b>2</b>	<b>0</b>	
<b>PE2208</b>	<b>RESERVOIR ROCK PROPERTIES</b>	<b>4</b>	<b>3</b>	<b>3</b>	
<b>PE2209</b>	<b>PETROLEUM GEOLOGY</b>	<b>4</b>	<b>3</b>	<b>2</b>	
<b>PE2210</b>	<b>PROBABILITIES &amp; STATISTICS</b>	<b>2</b>	<b>2</b>	<b>0</b>	
<b>PE2211</b>	<b>ENGLISH III</b>	<b>3</b>	<b>2</b>	<b>2</b>	
<b>PE2212</b>	<b>PETROLEUM GEOCHEMISTRY</b>	<b>3</b>	<b>2</b>	<b>2</b>	
Total		<b>18</b>	<b>14</b>	<b>9</b>	

### Third year - Semester (5)

Course Code	Course Name	Credit Hours	Theoretical	Practical	Prerequisite
<b>PE3101</b>	<b>PHASE BEHAVIOR &amp; RESERVOIR FLUIDS</b>	<b>3</b>	<b>3</b>	<b>0</b>	
<b>PE3102</b>	<b>REMOTE SENSING APPLICATIONS</b>	<b>1</b>	<b>0</b>	<b>2</b>	
<b>PE3103</b>	<b>RESERVOIR ENGINEERING</b>	<b>4</b>	<b>3</b>	<b>2</b>	
<b>PE3104</b>	<b>SUBSURFACE MAPPING</b>	<b>1</b>	<b>0</b>	<b>3</b>	
<b>PE3105</b>	<b>THERMODYNAMICS</b>	<b>3</b>	<b>2</b>	<b>2</b>	
<b>PE3106</b>	<b>INTRODUCTION OF COMPUTER SCIENCES</b>	<b>3</b>	<b>2</b>	<b>2</b>	
<b>PE3107</b>	<b>STRUCTURAL GEOLOGY</b>	<b>3</b>	<b>2</b>	<b>2</b>	
Total		<b>18</b>	<b>12</b>	<b>13</b>	

### Third year - Semester (6)

Course Code	Course Name	Credit Hours	Theoretical	Practical	Prerequisite
<b>PE3208</b>	<b>DRILLING &amp; COMPLETION OF OIL WELLS</b>	<b>4</b>	<b>3</b>	<b>2</b>	
<b>PE3209</b>	<b>MUD &amp; CEMENT LAB.</b>	<b>1</b>	<b>0</b>	<b>3</b>	
<b>PE3210</b>	<b>WELL LOGGING – 1</b>	<b>4</b>	<b>3</b>	<b>2</b>	
<b>PE3211</b>	<b>PETROLEUM PRODUCTION ENGINEERING</b>	<b>3</b>	<b>3</b>	<b>0</b>	
<b>PE3212</b>	<b>NATURAL GAS RESERVOIR</b>	<b>3</b>	<b>3</b>	<b>0</b>	
<b>PE3213</b>	<b>PVT PVT LAB.</b>	<b>1</b>	<b>0</b>	<b>3</b>	
<b>PE3214</b>	<b>TECHNICAL REPORT WRITING</b>	<b>2</b>	<b>2</b>	<b>0</b>	
Total		<b>18</b>	<b>14</b>	<b>10</b>	

### Fourth year - Semester (7)

Course Code	Course Name	Credit Hours	Theoretical	Practical	Prerequisite
<b>PE4101</b>	<b>RESERVOIR ENGINEERING - II</b>	<b>4</b>	<b>3</b>	<b>2</b>	
<b>PE4102</b>	<b>WELL DESIGN</b>	<b>4</b>	<b>3</b>	<b>2</b>	
<b>PE4103</b>	<b>RESERVOIR MODELING</b>	<b>3</b>	<b>2</b>	<b>2</b>	
<b>PE4104</b>	<b>CREATIVITY IN ENGINEERING DESIGN</b>	<b>3</b>	<b>2</b>	<b>2</b>	
<b>PE4105</b>	<b>PRODUCTION EQUIPMENT DESIGN</b>	<b>3</b>	<b>2</b>	<b>2</b>	
Total		<b>17</b>	<b>12</b>	<b>10</b>	

### Fourth year - Semester (8)

Course Code	Course Name	Credit Hours	Theoretical	Practical	Prerequisite
<b>PE4206</b>	<b>DRILLING EQUIPMENT DESIGN</b>	<b>3</b>	<b>2</b>	<b>2</b>	
<b>PE4207</b>	<b>WELL TESTING</b>	<b>3</b>	<b>3</b>	<b>0</b>	
<b>PE4208</b>	<b>PETROLEUM ECONOMICS</b>	<b>2</b>	<b>2</b>	<b>0</b>	
<b>PE4209</b>	<b>ENHANCED OIL RECOVERY</b>	<b>3</b>	<b>3</b>	<b>0</b>	
<b>PE4210</b>	<b>GEOPHYSICS</b>	<b>4</b>	<b>3</b>	<b>2</b>	
<b>PE4211</b>	<b>مقاومة مواد STRENGTH OF MATERIALS</b>	<b>3</b>	<b>2</b>	<b>2</b>	
Total		<b>18</b>	<b>15</b>	<b>6</b>	

### Fifth year - Semester (9)

Course Code	Course Name	Credit Hours	Theoretical	Practical	Prerequisite
<b>PE5101</b>	<b>FORMATION EVALUATION</b>	<b>4</b>	<b>3</b>	<b>2</b>	
<b>PE5102</b>	<b>WELL LOGGING – 2</b>	<b>4</b>	<b>3</b>	<b>2</b>	
<b>PE5103</b>	<b>PETROLEUM FLUID PROPERTIES</b>	<b>3</b>	<b>2</b>	<b>3</b>	
<b>PE5104</b>	<b>INDUSTRIAL MANAGEMENT</b>	<b>2</b>	<b>2</b>	<b>0</b>	
<b>PE5105</b>	<b>SEISMIC &amp; SEQUENCES STRATIGRAPHY</b>	<b>3</b>	<b>2</b>	<b>2</b>	
Total		<b>16</b>	<b>12</b>	<b>9</b>	

### Fifth year - Semester (10)

Course Code	Course Name	Credit Hours	Theoretical	Practical	Prerequisite
<b>PE5206</b>	<b>FRACTURED RESERVOIR CHARACTERIZATION</b>	<b>2</b>	<b>2</b>	<b>0</b>	
<b>PE5207</b>	<b>DRIRECTIONAL &amp; HORIZONTAL DRILLING TECHNOLOGY</b>	<b>3</b>	<b>3</b>	<b>0</b>	
<b>PE5208</b>	<b>RESERVOIR SIMULATION</b>	<b>3</b>	<b>2</b>	<b>2</b>	
<b>PE5209</b>	<b>REGIONAL GEOLOGY</b>	<b>3</b>	<b>2</b>	<b>2</b>	
<b>PE5212</b>	<b>TRANSPORT &amp; STORAGE OIL &amp; GAS</b>	<b>3</b>	<b>2</b>	<b>2</b>	
<b>PE5211</b>	<b>OFFSHORE DRILLING TECHNOLOGY</b>	<b>3</b>	<b>3</b>	<b>0</b>	
<b>PE5210</b>	<b>SCIENTIFINC THINKING</b>	<b>1</b>	<b>1</b>	<b>0</b>	
Total		<b>18</b>	<b>15</b>	<b>6</b>	