

## Certificate Programme Courses – Certificate in Basic Reservoir Management

### Year One Semester One

Course No.	Course Name	T	P	C
RM 111	Basic Mathematics and Statistics	2	1	2
RM 123	Basic Technical Communication	2	1	2
RM 125	Introduction to Computing	1	4	2
RM 127	Introduction to Petroleum Engineering	2	1	2
RM 129	Basic Petroleum Geology and Exploration	2	1	2
RM 131	Properties Reservoir Rocks and Fluids	2	1	2
RM 133	Basic Natural Gas Engineering	2	1	2
RM 135	Basic Reservoir Engineering I	2	1	2
<b>Totals</b>		<b>15</b>	<b>11</b>	<b>16</b>
<b>Credit Hours</b>		<b>16</b>		

### Year One Semester Two

Course No.	Course Name	T	P	C
RM 120	Basic Oil and Gas Project Evaluation	2	1	2
RM 130	Basic Reservoir Engineering II	2	1	2
RM 132	Basic Enhanced Oil Recovery	2	1	2
RM 134	Basic Well Logging	2	1	2
RM 136	Introduction to Well Testing Analysis	2	1	2
RM 138	Basic Reservoir Simulation and Modelling	2	1	2
RM 140	Health, Safety and Field Management	2	1	2
RM 142	Petroleum Upstream Laws and Regulations	2	1	2
<b>Totals</b>		<b>16</b>	<b>8</b>	<b>16</b>
<b>Cumulative Credit Hours</b>		<b>32</b>		

**Certificate Programme Courses – Certificate in Drilling Fluid Technology**

**Year One Semester One**

<b>Course No.</b>	<b>Course Name</b>	<b>T</b>	<b>P</b>	<b>C</b>
DF 111	Basic Mathematics and Statistics	2	1	2
DF 123	Basic Technical Communication	2	1	2
DF 125	Introduction to Computing	1	4	2
DF 127	Introduction to Petroleum Engineering	2	1	2
DF 131	Fundamentals of Drilling Fluids	2	1	2
DF 133	Drilling Fluid Engineering Calculations	2	1	2
DF 135	Drilling Fluid Testing and Equipment	2	1	2
DF 137	Basic Chemistry	2	1	2
<b>Totals</b>		<b>15</b>	<b>11</b>	<b>16</b>
<b>Credit Hours</b>		<b>16</b>		

**Year One Semester Two**

<b>Course No.</b>	<b>Course Name</b>	<b>T</b>	<b>P</b>	<b>C</b>
DF 120	Oilfield Health, Safety and Environment	2	1	2
DF 130	Water Based Mud System	2	1	2
DF 132	Oil Based Mud System	2	1	2
DF 134	Special Fluids	2	1	2
DF 136	Rheology and Hydraulics of Drilling Fluids	2	1	2
DF 138	Solids Control Process	2	1	2
DF 140	Drilling Problems and Solutions	2	1	2
DF 142	Drilling Fluid Laboratory Practice	1	4	2
<b>Totals</b>		<b>15</b>	<b>11</b>	<b>16</b>
<b>Cumulative Credit Hours</b>		<b>32</b>		

## Certificate Programme Courses – Certificate in Oil Well Cementing

### Year One Semester One

<b>Course No.</b>	<b>Course Name</b>	<b>T</b>	<b>P</b>	<b>C</b>
WC 111	Basic Mathematics and Statistics	2	1	2
WC 123	Basic Technical Communication	2	1	2
WC 125	Introduction to Computing	1	4	2
WC 127	Introduction to Petroleum Engineering	2	1	2
WC 131	Basics of Well Cementing	2	1	2
WC 133	Cement Testing and Equipment	2	1	2
WC 135	Primary Cementing	2	1	2
WC 137	Basic Cement Chemistry	2	1	2
<b>Totals</b>		<b>15</b>	<b>11</b>	<b>16</b>
<b>Credit Hours</b>		<b>16</b>		

### Year One Semester Two

<b>Course No.</b>	<b>Course Name</b>	<b>T</b>	<b>P</b>	<b>C</b>
WC 120	Oilfield Health, Safety and Environment	2	1	2
WC 130	Secondary Cementing	2	1	2
WC 132	Cement Additives	2	1	2
WC 134	Cement Engineering Computations	2	1	2
WC 136	Cementing and Casing	2	1	2
WC 138	Cement Job Evaluation	2	1	2
WC 140	Rheology of Cement Slurry	2	1	2
WC 142	Cement Slurry Laboratory Practice	1	4	2
<b>Totals</b>		<b>15</b>	<b>11</b>	<b>16</b>
<b>Cumulative Credit Hours</b>		<b>32</b>		

## Certificate Programme Courses – Certificate in Natural Gas Technology

### Year One Semester One

Course No.	Course Name	T	P	C
NT 111	Basic Mathematics and Statistics	2	1	2
NT 123	Basic Technical Communication	2	1	2
NT 125	Introduction to Computing	1	4	2
NT 127	Introduction to Petroleum Engineering	2	1	2
NT 131	Drilling Operations and Equipment	2	1	2
NT 133	Basic Production Operations and Equipment	2	1	2
NT 135	Basic Reservoir Engineering	2	1	2
NT 137	Basic Petroleum Geology and Exploration	2	1	2
<b>Totals</b>		<b>15</b>	<b>11</b>	<b>16</b>
<b>Credit Hours</b>		<b>16</b>		

### Year One Semester Two

Course No.	Course Name	T	P	C
NT 130	Basic Gas Production	2	1	2
NT 132	Gathering and Transportation of Gas	2	1	2
NT 134	Basic Natural Gas Processing	2	1	2
NT 136	Basic Natural Gas Synthesis	2	1	2
NT 138	Introduction to Gas Utilisation and Marketing	2	1	2
NT 140	Health, Safety and Env. in Gas Process Industries	2	1	2
NT 142	Basic Petroleum Laws and Regulations	2	1	2
NT 144	Basic Oil and Gas Project Evaluation	2	1	2
<b>Totals</b>		<b>16</b>	<b>8</b>	<b>16</b>
<b>Cumulative Credit Hours</b>		<b>32</b>		

- T - Teaching Hours
- P - Hours for Practicals, Tutorial and Laboratory Work.
- C - Credit Hours