



# Dili Institute of Technology

**Educated to Serve**

## Petroleum Engineering Curriculum

### I. Cluster of Curriculum

Cluster	Subject-Matter	Credit Point
<b>Institutional Subject (20%)</b>	Tetun I & II	12
	Portuguese I & II	12
	English I & II	12
	Communication Skills	4
	Constitution and Citizenship	4
	Gender and Development	4
	Critical Thinking and Problem Solving	4
	Entrepreneurship	4
	Environmental Studies	4
<b>Foundation Subjects (15%)</b>	Calculus I	4
	Calculus II	4
	Basic Physics I	4
	Basic Physics II	4
	Basic Chemistry I	4
	Basic Chemistry II	4
	Introduction to Petroleum Engineering	4
	Introduction to Computer	4
	Field work	4
<b>Professional Subjects (30%)</b>	General Geology	6
	Prime Mover	4
	Introduction to Petroleum Material	5
	Hydrocarbon Chemistry	3
	Petroleum Geology	6
	Timor Leste Geology	3
	Drilling and Production Equipment	5
	Instrument and Control	4
	Health, Safety Environment	3
	Statistics and Data Analysis	4
	Technical Writing	3
	Research Methods	4
	Reservoir Mechanics	4

	Evaluation Formation I	5
	Evaluation of Formation II	5
	Workover and Simulation	4
	Technical Drawing	4
<b>Specialization Subjects (30%)</b>	Seminar in Petroleum Engineering	3
	Reservoir Engineering	4
	Production Engineering I	5
	Drilling Engineering I	5
	Drilling Engineering II	5
	Production Engineering II	5
	Petroleum Economics	4
	Offshore Technology	6
	Oil and Gas Field Development	5
	Petroleum Engineering Internship Program	10
	Final Year Research Project	20
	<b>TOTAL</b>	<b>240</b>

## II. Structure Curriculum Offered Every Trimester

Year	Trimester	Code of Subject Matter	Name of Subject Matter	Credit Point
I	I	PM111	Calculus I	4
		PM112	Introduction to Petroleum Engineering	5
		PM 113	Basic Physics I	4
		PM 114	Basic Chemistry I	4
		GS111	Communication Skills	4
		LS111	English I	4
		<b>Total</b>		<b>25</b>
	II	PM121	Introduction to Computers	3
		PM122	Prime Mover	4
		PM123	Basic Chemistry II	4
		PM124	Calculus II	4
		PM125	Basic Physics II	4
		LS121	English II	4
		<b>Total</b>		<b>23</b>
	III	PM131	Drilling and Production Equipment	5
		PM132	General Geology	6
		PM133	Technical Drawing	4
		GS131	Constitution and Citizenship	4
		LS131	English III	4
		<b>Total</b>		<b>23</b>
	IV	PM211	Reservoir Engineering	4
		PM212	Introduction to Petroleum Material	5
		PM213	Petroleum Geology	6
		PM214	Oil and Gas Safety Environment	3
		PM214	Instrument and Control	4
		LS211	Tetun ba eskola ho servisu I	4

II		Total		26
	V	PM221	Evaluation Formation I	5
		PM222	Drilling Engineering I	5
		PM223	Production Engineering I	5
		PM224	Timor Leste Geology	3
		PM225	Hydrocarbon Chemistry	3
		LS221	Tetun ba eskola ho servisu II	4
		Total		25
	VI	PM231	Evaluation Formation II	5
		PM232	Drilling Engineering II	5
		PM233	Production Engineering II	5
		PM234	Gender and Development	3
		LS231	Tetun ba eskola ho servisu III	4
		Total		22
	VII	PM311	Reservoir Mechanics	4
		PM312	Statistics and Data Analysis	4
		PM313	Workover and Stimulation	4
		PM314	Field Work	4
		GS311	Critical Thinking and Problem Solving	4
		LS311	Portuguese I	4
		Total		24
III	VIII	PM321	Petroleum Economics	4
		PM322	Oil and Gas Field Development	5
		PM323	Research Methods	4
		PM324	Technical Writing	3
		GS321	Entrepreneurship	4
		LS321	Portuguese II	4
		Total		24
	IX	PM331	Offshore Technology	6
		PM332	Seminar in Petroleum Engineering	3
		GS331	Environmental Studies	4
		LS331	Portuguese III	4
		Total		17
	IV	X	PM411	Petroleum Engineering Internship Program
PM412			Final Year Research Project	20
Total			17	
TOTAL Credit Points				240