

2025 – 2029 batch BTech in Petroleum Engineering

<b>1st sem</b>					
1	PY111	Classical Physics	IS	3-1-0	11
2	CY121	Inorganic & Physical Chemistry	IS	3-1-0	11
3	MA123	Applied Mathematics - I	IS	3-1-0	11
4	CH161	Engineering Thermodynamics	IE	3-1-0	11
5	ME131	Workshop	EP	0-0-3	3
6	PY101L	Physics Lab	IS	0-0-2/2	1
7	CY101L	Chemistry Lab	IS	0-0-2/2	1
		Total Credits			49
	LM101	Basic English*	LM	1-2-0	7
	HU101	Universal Human Value	HU	1-1-0	5

\*Basic English course is taken by a student on a recommendation after Diagnostic test.

<b>2nd sem</b>					
1	PY121	Modern Physics	IS	2-1-0	8
2	MA124	Applied Mathematics - II	IS	3-1-0	11
3	CY111	Organic & Hydrocarbon Chemistry	IS	3-1-0	11
4	CS101	Computer Programming	IE	3-1-0	11
5	CH121	Fluid Mechanics	IE	3-1-0	11
6	PE101	Petroleum Engineering Practices	EP	1-0-2	5
7	PY121L	Physics Lab	IS	0-0-2/2	1
8	CY121L	Chemistry Lab	IS	0-0-2/2	1
9	ME121	Engineering Visualization	EP	0-1-3	5
10	CS101L	Computer Programming Lab	IE	0-0-2	2
		Total Credits			66
	HU102	Community Internship	HU	1-1-0	5

<b>3rd sem</b>					
1	PE202	Fundamentals of Mechanical Engineering	IE	3-0-0	9
2	PE241	Reservoir Engineering-I	DC	3-1-0	11
3	PE221	Introductory Geosciences	DC	2-0-0	6
4	MA222	Applied Mathematics - III	IS	3-1-0	11
5	ME211	Fluid Machinery	DC	3-0-0	9
6	ECE102	Fundamentals of Electronics Engineering	IE	3-1-0	11
7	ECE102L	Fundamentals of Electronics Engineering Lab	IE	0-0-2	2
8	ME216L	Fluid Mechanics and Machinery Lab	DC	0-0-2	2
9	PE221L	Geology Lab	DC	0-0-2	2
		Total Credits			63

<b>4th sem</b>					
1	PE222	Petroleum Geology	DC	3-0-0	9
2	PE231	Production Engineering	DC	3-0-0	9
3	PE242	Reservoir Engineering - II	DC	3-1-0	11
4	PE211	Drilling Technology	DC	3-0-0	9
5	CH232	Heat and Mass Transfer	IE	3-1-0	11
6	PE321	Formation Evaluation	DC	3-0-0	9
7	PE211L	Drilling Technology Lab	DC	0-0-2	2
8	PE242L	Reservoir Engineering Lab	DC	0-0-2	2
9	PE321L	Formation Evaluation Lab	DC	0-0-2	2
		Total Credits			64
	PE250	Field excursion and Industrial Visit	DP	0-0-2	2

5th sem					
1	PE322	Petroleum Exploration and Prospecting	DC	2-0-0	6
2	PE331	Offshore Oil and Gas Technology	DC	3-0-0	9
3	PE311	Petroleum Facilities Design & Operation	DC	3-1-0	11
4	PE312	Advanced Drilling Technology	DC	3-0-0	9
5	PE402	Health Safety and Environment	DC	2-0-0	6
6		DE 1	DE	3-0-0	9
7		DE 2	DE	2-0-0	6
8	PE322L	Petroleum Exploration and Prospecting Lab	DC	0-0-2	2
9	PE341L	Well Test Analysis Lab	DC	0-0-2	2
		Total Credits			60

6th sem					
1	PE443	Petroleum Field Resource Management	DC	3-0-0	9
2	PE442	Reservoir Modelling and Simulation	DC	2-0-0	6
3	PE351	Pipeline Engineering	DC	3-0-0	9
4	PE421	Unconventional Hydrocarbon Resources	DC	2-0-0	6
5	ME225	Measurement, Metrollogy & Control System	DC	3-0-0	9
6		DE 3	DE	3-0-0	9
7		DE 4	DE	2-0-0	6
8	PE442L	Reservoir Modelling and Simulation Lab	DC	0-0-2	2
9	PE411L	Production Engineering Lab	DC	0-0-2	2
		Total Credits			58

Summer Term					
		Summer Internship	DP		5

7th sem					
1		Open Elective - I	OE	3-0-0	9
2		Open Elective - II	OE	3-0-0	9
3	MT5405	Foundations of Management	LM	2-0-0	6
4	MT5100	Principles of Economics	LM	2-0-0	6
5	HU313	Sociology of Industry and Work Culture	HU	2-0-0	6
6	HU331	Organizational Psychology	HU	2-0-0	6
	PC111	Professional Communications	LM	2-1-0	8
		Total Credits			50
		Seminar	EP	0-0-2	2
	GD111	Group Discussion	EP	0-0-2	2

8th sem					
1		BTech Dissertation	DP		40
		Total Credits			40