

2022 – 2026 batch BTech in Petroleum Engineering

1st sem					
1	PY111	Classical Physics	IS	3-1-0	11
2	CY111	Organic & Hydrocarbon Chemistry	IS	3-1-0	11
3	MA111	Real Analysis & Calculus	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
	HU101	Universal Human Value	HU	1-1-0	5

2nd sem					
1	PY121	Modern Physics	IS	2-1-0	8
2	MA121	Differential Equations	IS	3-1-0	11
3	CY121	Inorganic & Physical 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 Graphics	EP	0-0-3	3
10	CS101L	Computer Programming Lab	IE	0-0-2	2
		Total Credits			64
	HU102	Community Internship	HU	1-1-0	5

3rd sem					
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	MA211	Linear Algebra and Complex Analysis	IS	2-1-0	8
5	CH222	Fluid Flow Operations	DC	2-1-0	8
6	ECE102	Fundamentals of Electronics Engineering	IE	3-1-0	11
7	ECE102L	Fundamentals of Electronics Engineering Lab	IE	0-0-2	2
8	CH332L	Fluid Flow and Mechanical Operations Lab	DC	0-0-2	2
9	PE221L	Geology Lab	DC	0-0-2	2
		Total Credits			59

4th sem					
1	PE222	Petroleum Geology	DC	3-0-0	9
2	PE231	Production Engineering	DC	3-0-0	9
3	PE242	Reservoir Engineering - II	DC	2-0-0	6
4	PE211	Drilling Technology	DC	3-0-0	9
5	CH232	Heat and Mass Transfer	IE	3-1-0	11
6	MA141	Numerical Methods	IS	2-1-0	8
7	PC111	Professional Communications	LM	2-1-0	8
8	PE211L	Drilling Technology Lab	DC	0-0-2	2
9	PE242L	Reservoir Engineering Lab	DC	0-0-2	2
		Total Credits			64
	GD111	Group Discussion	EP	0-0-2	2

5th sem					
1	PE321	Formation Evaluation	DC	3-0-0	9
2	PE341	Well Test Analysis	DC	3-0-0	9
3	PE331	Offshore Oil and Gas Technology	DC	3-0-0	9
4	PE312	Advanced Drilling Technology	DC	3-0-0	9
5	PE351	Pipeline Engineering	DC	3-0-0	9
6	CH301	Process Instrumentation	DC	2-0-0	6
7	PE321L	Formation Evaluation Lab	DC	0-0-2	2
8	PE341L	Well Test Analysis Lab	DC	0-0-2	2
9	PE418	B.Tech Project	DP	0-0-5	5
		Total Credits			60
		Seminar	EP	0-0-2	2

6th sem					
1	PE322	Petroleum Exploration and Prospecting	DC	2-0-0	6
2	PE332	Natural Gas Engineering	DC	3-0-0	9
3	PE311	Petroleum Facilities Design & Operation	DC	3-1-0	11
4	CH342	Process Dynamics & Controls	DC	3-1-0	11
5	CH212	Material Science and Strength of Materials	IE	3-0-0	9
6	MA231	Statistical Methods & Data Analysis	IS	2-1-0	8
7	PE322L	Petroleum Exploration and Prospecting Lab	DC	0-0-2	2
8	CH342L	Process Dynamics & Controls Lab	DC	0-0-2	2
9	PE419	B.Tech Project	DP	0-0-5	5
		Total Credits			63

Summer Term					
		Summer Internship	DP		5

7th sem					
1	PE421	Unconventional Hydrocarbon Resources	DC	2-0-0	6
2	PE442	Reservoir Modelling and Simulation	DC	2-0-0	6
3	PE431	EOR Techniques	DC	2-0-0	6
4		DE 1	DE	2-0-0	6
5		DE 2	DE	2-0-0	6
6		Open Elective	OE	3-0-0	9
7	MT5100	Principles of Economics	LM	2-0-0	6
8	HU331	Organizational Psychology	HU	2-0-0	6
9	PE442L	Reservoir Modelling and Simulation Lab	DC	0-0-2	2
10	PE411L	Production Engineering Lab	DC	0-0-2	2
		Total			55

8th sem					
1		DE 3	DE	3-0-0	9
2		DE 4	DE	3-0-0	9
3		Open Elective	OE	3-0-0	9
4	MT5405	Foundations of Management	LM	2-0-0	6
5	HU313	Sociology of Industry and Work Culture	HU	2-0-0	6
6		BTech Project/ Internship	DP		5
		Total Credits			44