



Parul[®]
University

Subject Teaching & Examination Scheme

ENGG & TECH - BTECH - PE -

Semester - 1

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203104111	Elements of Civil Engineering	4.00	3	2	0	20	20	20	60	30	40	25	150
203105103	Fundamental of Programming	4.00	3	2	-	20	20	20	60	30	40	25	150
203109102	Elements of Mechanical Engineering	4.00	3	2	0	20	20	20	60	30	40	25	150
203191102	Mathematics-I	5.00	3	0	2	20	-	20	60	-	40	-	100
203192105	Engineering Physics	4.00	3	2	0	20	20	20	60	30	40	25	150
203193101	Communication Skills - 1	2.00	0	0	2	-	-	100	-	-	40	-	100
	Total	23.00	15	8	4								800

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Parul[®]
University

Subject Teaching & Examination Scheme

ENGG & TECH - BTECH - PE -

Semester - 2

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203100101	Workshop	2.00	0	4	0	-	40	-	-	60	-	50	100
203104182	Environmental Science	2.00	2	0	0	20	-	20	60	-	40	-	100
203106101	Basic Electrical Engineering	5.00	4	2	0	20	20	20	60	30	40	25	150
203109101	Engineering Graphics	4.00	2	4	0	20	20	20	60	30	40	25	150
203120101	Chemistry	4.00	3	2	0	20	20	20	60	30	40	25	150
203191152	Mathematics-II	5.00	3	0	2	20	-	20	60	-	40	-	100
203193151	Communication Skills - 2	2.00	0	0	2	-	-	100	-	-	40	-	100
	Total	24.00	14	12	4								850

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Parul[®]
University

Subject Teaching & Examination Scheme

ENGG & TECH - BTECH - PE -

Semester - 3

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203120201	Introduction to Petroleum Geology	3.00	3	-	0	20	-	20	60	-	40	-	100
203120202	Drilling Engineering-1 Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
203120203	Drilling Engineering-1	4.00	3	-	1	20	-	20	60	-	40	-	100
203120204	Fluid Flow Operations Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
203120205	Fluid Flow Operations	3.00	3	-	-	20	-	20	60	-	40	-	100
203120207	Petroleum Exploration	3.00	3	-	-	20	-	20	60	-	40	-	100
203120209	Thermodynamics	4.00	3	-	1	20	-	20	60	-	40	-	100
203120210	Product Realization	1.00	-	2	-	-	50	-	-	-	-	25	50
203191205	Complex Variables and PDE	4.00	4	-	-	20	-	20	60	-	40	-	100
203193203	Professional Communication Skills	2.00	-	-	2	-	-	100	-	-	40	-	100
	Total	26.00	19	6	4								850

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Parul[®]
University

Subject Teaching & Examination Scheme

ENGG & TECH - BTECH - PE -

Semester - 4

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203120251	Heat and Mass Transfer	3.00	3	-	-	20	-	20	60	-	40	-	100
203120252	Heat and Mass Transfer laboratory	1.00	-	2	-	-	20	-	-	30	-	25	50
203120253	Drilling Engineering-II	3.00	3	-	-	20	-	20	60	-	40	-	100
203120255	Elements of Reservoir Engineering	4.00	3	-	1	20	-	20	60	-	40	-	100
203120256	Elements of Reservoir Engineering lab	1.00	-	2	-	-	20	-	-	30	-	25	50
203120257	Production Operations-1	3.00	3	-	-	20	-	20	60	-	40	-	100
203191254	Probability, Statistics and Numerical Methods	4.00	4	-	-	20	-	20	60	-	40	-	100
203193252	Professional Grooming & Personality Development	1.00	-	-	1	-	-	100	-	-	40	-	100
	Total	20.00	16	4	2								700

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203101346	Basic Aircraft Science	2.00	2	0	0	20	-	20	60	-	40	-	100
203104346	Disaster Preparedness and Planning	2.00	2	0	0	20	-	20	60	-	40	-	100
203105346	Cyber Security	2.00	2	0	0	20	-	20	60	-	40	-	100
203107346	Fundamentals of Communication Engineering	2.00	2	0	0	20	-	20	60	-	40	-	100
203108346	Internet of Things	2.00	2	0	0	20	-	20	60	-	40	-	100
203109346	Renewable Energy Sources	2.00	2	0	0	20	-	20	60	-	40	-	100

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203120301	Applied Petroleum Reservoir Engineering	4.00	3	0	1	20	-	20	60	-	40	-	100
203120302	Petroleum Geochemistry Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
203120303	Petroleum Geochemistry	3.00	3	-	-	20	-	20	60	-	40	-	100
203120309	Offshore Engineering	3.00	3	-	-	20	-	20	60	-	40	-	100
203120313	Natural Gas Engineering	2.00	2	0	0	20	-	20	60	-	40	-	100
203193304	Professionalism & Corporate Ethics	1.00	-	-	1	-	-	100	-	-	40	-	100
	Open Elective 01 (Complsoy Subjects :1)	2.00	2	0	0	40	-	-	60	-	-	-	100
	PEC 01 (Complsoy Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	Total	19.00	16	2	2								750



Parul[®]
University

Subject Teaching & Examination Scheme

ENGG & TECH - BTECH - PE -

Semester - 5 PEC 01

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203120331	Oil and Gas Field Development and Planning	3.00	3	-	-	20	-	20	60	-	40	-	100
203120333	Sedimentary and Petroleum Geology	3.00	3	-	-	20	-	20	60	-	40	-	100
203120335	Petroleum Economics	3.00	3	-	-	20	-	20	60	-	40	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Semester - 6 Open Elective 02

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203100351	Life Science	2.00	2	0	0	60	-	40	-	-	40	-	100
203100352	Biology for Engineers	2.00	2	0	0	60	-	40	-	-	40	-	100
203100353	Engineering Geology	2.00	2	0	0	60	-	40	-	-	40	-	100
203100354	Landscape Planning and Design	2.00	2	0	0	60	-	40	-	-	40	-	100
203100355	Fundamentals of Management	2.00	2	0	0	60	-	40	-	-	40	-	100
203100356	Corporate Social Responsibility	2.00	2	0	0	60	-	40	-	-	40	-	100
203100357	Innovation and Entrepreneurship	2.00	2	0	0	60	-	40	-	-	40	-	100
203100358	Constitution of India	2.00	2	0	0	60	-	40	-	-	40	-	100
203100359	Cyber Law & Ethics	2.00	2	0	0	60	-	40	-	-	40	-	100

Semester - 6

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203120351	Surface Production Operations	3.00	3	-	-	20	-	20	60	-	40	-	100
203120353	Formation Evaluation	3.00	3	-	-	20	-	20	60	-	40	-	100
203120355	Oil and Gas Well Testing	3.00	3	-	-	20	-	20	60	-	40	-	100
203120356	Oil and Gas Well Testing Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
203120359	Pumps and compressor	2.00	2	-	-	20	-	20	60	-	40	-	100
203193353	Employability Skills	1.00	-	-	1	-	-	100	-	-	40	-	100



Parul[®]
University

Subject Teaching & Examination Scheme

ENGG & TECH - BTECH - PE -

Semester - 6

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
	Open Elective 02 (Complsoy Subjects :1)	2.00	2	0	0	100	-	-	-	-	-	-	100
	PEC 02 (Complsoy Subjects :1)	3.00	3	0	0	40	-	-	60	-	-	-	100
	Total	18.00	16	2	1								750

Semester - 6 PEC 02

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203120381	Energy Technology and Engineering	3.00	3	0	0	20	-	20	60	-	40	-	100
203120383	Renewable Energy	3.00	3	0	0	20	-	20	60	-	40	-	100
203120385	Biomass Conversion and Utilization	3.00	3	0	0	20	-	20	60	-	40	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Semester - 7

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203120403	Enhanced Oil Recovery Techniques	3.00	3	-	-	20	-	20	60	-	40	-	100
203120404	Project-I	6.00	0	12	0	-	40	-	-	60	-	50	100
203120410	Industrial training/Internship	2.00	-	4	-	-	-	-	-	100	-	50	100
203120411	Reservoir Modeling and Simulation	2.00	2	-	-	20	-	20	60	-	40	-	100
203120412	Reservoir Modeling and Simulation Lab	1.00	-	2	-	-	-	-	-	30	-	25	50
203120413	Petroleum Engineering Design	3.00	3	0	0	20	-	20	60	-	40	-	100
	PEC 03 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	Total	20.00	11	18	0								650

Semester - 7 PEC 03

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203120431	Pipeline Engineering	3.00	3	-	-	20	-	20	60	-	40	-	100
203120435	Well Performance and Intervention	3.00	3	-	-	20	-	20	60	-	40	-	100
203120439	Advanced drilling technology	3.00	3	-	-	20	-	20	60	-	40	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Semester - 8

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203120451	Unconventional Energy Resources	3.00	3	-	-	20	-	20	60	-	40	-	100
203120456	Project II	6.00	0	12	0	-	-	-	-	100	-	100	200
203120461	Health, Safety and Environment in petroleum Industry	3.00	3	-	-	20	-	20	60	-	40	-	100
203120463	Advanced Production Technologies	3.00	3	-	-	20	-	20	60	-	40	-	100
	PEC 04 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	PEC 04 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	Total	21.00	15	12	0								700

Semester - 8 PEC 04

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203120481	Hydrocarbon Contracts and Asset Management	3.00	3	-	-	20	-	20	60	-	40	-	100
203120491	Petroleum Geo-mechanics & Hydraulic Fracturing	3.00	3	-	-	20	-	20	60	-	40	-	100
203120493	Transportation and Marketing of Petroleum and Petroleum Products	3.00	3	-	-	20	-	20	60	-	40	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50