





Course Code	CO Statements	POs												PSOs	
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>201ES1T05 - Engineering Graphics</b>															
<b>CO1</b>	Sketch the polygons, conics and scales by using the principles of drawing	3	2	1	-	-	-	-	-	-	-	-	-	-	-
<b>CO2</b>	Draw Orthographic projections of points and lines..	3	2	1	-	-	-	-	-	-	-	-	-	-	-
<b>CO3</b>	Draw Orthographic projections of planes in various positions	3	2	1	-	-	-	-	-	-	-	-	-	-	-
<b>CO4</b>	Draw Orthographic projections of solids in various positions.	3	2	1	-	-	-	-	-	-	-	-	-	-	-
<b>CO5</b>	Construct isometric scale and isometric projections	3	2	1	-	-	-	-	-	-	-	-	-	-	-
<b>201HS1L01 - Communicative English Lab</b>															
<b>CO1</b>	Make use of the concepts to communicate confidently and competently in English Language in all spheres.	-	-	-	-	1	-	-	-	-	3	-	1	-	-
<b>CO2</b>	Express Creative skills to construct Dialogues / Conversations in Spoken and Written forms.	-	-	-	-	1	-	-	-	-	3	-	2	-	-
<b>CO3</b>	Identify Accent for intelligibility.	-	-	-	-	1	-	-	-	-	3	-	2	-	-
<b>CO4</b>	Demonstrate communicative ability in everyday Conversation, JAM Sessions and Public Speaking.	-	-	-	-	1	-	-	-	-	3	-	1	-	-
<b>CO5</b>	Demonstrate nuances of Language through Audio – Visual Experience and group activities.	-	-	-	-	1	-	-	-	-	3	-	1	-	-
<b>201BS1L01 - Engineering Physics Lab</b>															
<b>CO1</b>	Determine the rigidity and young's modulus to understand material properties.	3	2	-	-	-	-	-	-	3	-	-	1	-	-
<b>CO2</b>	Determine Acceleration due to Gravity and Radius of Gyration and spring constant by oscillatory mechanics	2	2	-	-	-	-	-	-	3	-	-	1	-	-
<b>CO3</b>	Find the strength of the magnetic field.	3	1	-	-	-	-	-	-	3	-	-	1	-	-

	CO Statements	POs												PSOs	
<b>CO4</b>	Determine wavelength of unknown source, particle size using lasers.	3	2	-	-	-	-	-	-	3	-	-	1	-	-
<b>CO5</b>	Determination of velocity of sound, moment of inertia	3	2	-	-	-	-	-	-	3	-	-	1	-	-
<b>Course Code</b>	<b>201ES1L03 - Essential Electrical and Electronics Engineering Lab</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>CO1</b>	Analyze the electrical networks using network theorems	3	2	1	1	-	-	-	-	-	-	-	-	3	-
<b>CO2</b>	Analyze the performance of AC and DC Machines.	3	3	2	-	-	-	-	-	-	-	-	-	3	-
<b>CO3</b>	Estimate the performance of 1-phase transformer.	3	2	1	1	-	-	-	-	-	-	-	-	3	-
<b>CO4</b>	Explain diode characteristics and its applications	2	1	-	-	-	-	-	-	-	-	-	-	-	-
<b>CO5</b>	Explain the simulation of diode and transistor.	2	1	-	-	-	-	-	-	-	-	-	-	-	-
<b>Course Code</b>	<b>201MC1T01 - Environmental Science</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>CO1</b>	Identify the need for protecting the producers and consumers in various ecosystems and their role in the food web.	-	-	-	-	-	-	2	-	-	-	-	-	-	-
<b>CO2</b>	Outline the natural resources and their importance for the sustenance of the life.	-	-	-	-	-	-	3	-	-	-	-	-	-	-
<b>CO3</b>	List out the biodiversity of India, threats and its conservation methods	-	-	-	-	-	-	2	-	-	-	-	-	-	-
<b>CO4</b>	Illustrate various attributes of the pollution, impacts and measures to control the pollution along with waste management practices.	-	-	-	-	-	-	3	-	-	-	-	-	-	-
<b>CO5</b>	Describe social issues both rural and urban environment to combat the challenges.	-	-	-	-	-	-	3	-	-	-	-	-	-	-
<b>CO6</b>	Summarize the legislations of India in environmental protection.	-	-	-	-	-	-	3	-	-	-	-	-	-	-



	CO Statements	POs												PSOs		
CO3	Apply concept of Virtual work to find the work done by force and couple.	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-
CO4	Solve the centre of gravity and moment of inertia for various geometric shapes	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-
CO5	Determine the displacement, velocity and acceleration relations in dynamic systems.	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-
Course Code	<b>201ES2T08 - Programming for Problem Solving Using C</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	
CO1	Illustrate the fundamental concepts of computers and basics of computer programming.	2	1	-	-	1	-	-	-	-	-	-	3	-	-	
CO2	Make use of control structures and arrays in solving complex problems	3	2	1	1	3	-	-	-	-	-	-	3	-	-	
CO3	Develop program on modular and strings fundamentals.	3	2	1	1	3	-	-	-	-	-	-	3	-	-	
CO4	Demonstrate the ideas of pointer usage.	2	1	-	-	2	-	-	-	-	-	-	3	-	-	
CO5	Solve real world problems using the concept of structures, unions and File operations.	3	2	1	1	3	-	-	-	-	-	-	3	-	-	
Course Code	<b>201ES2L07 - Engineering Workshop</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	
CO1	Prepare cross lap and dovetail joints using Carpentry tools	1	-	-	-	-	-	-	-	1	-	-	1	-	-	
CO2	Prepare V-Fit and Square Fit using Fitting tools	1	-	-	-	-	-	-	-	1	-	-	1	-	-	
CO3	Develop Tray and Funnel surfaces using Tin smithy tools	1	-	-	-	-	-	-	-	1	-	-	1	-	-	
CO4	Convert Round rod to Square and S-hook using Black smithy tools	1	-	-	-	-	-	-	-	1	-	-	1	-	-	
CO5	Check the circuit for Parallel and Series connection of bulbs using House wiring tools	1	-	-	-	-	-	-	-	1	-	-	1	-	-	

	CO Statements	POs												PSOs	
Course Code	201ES2L12 - Computer Aided Drafting Lab	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Explain the basic functions of drawing software.	3	-	1	-	-	-	-	-	-	3	-	-	-	-
CO2	Select the Construction and editing commands for specified drawings.	3	-	1	-	-	-	-	-	-	3	-	-	-	-
CO3	Apply the concepts of Blocks, Hatching and Layers.	3	-	1	-	-	-	-	-	-	3	-	-	-	-
CO4	Draw the isometric views & orthographic views with dimensions	3	-	1	-	-	-	-	-	-	3	-	3	-	-
CO5	Draw the 3D Model for mechanical components	3	-	1	-	-	-	-	-	-	3	-	3	-	-
Course Code	201HS2L02 - Professional Communications Skills Lab	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Make effective use of Body language in all situations and contexts to enhance effective communication in all aspects.	-	-	-	-	-	-	-	-	-	3	-	2	-	-
CO2	Identify communicative competency to respond to others in different situations.	-	-	-	-	-	-	-	-	-	3	-	2	-	-
CO3	Make use of effective delivery strategies to select, compile and synthesize information for oral presentation.	-	-	-	-	-	-	-	-	-	3	-	2	-	-
CO4	Demonstrate in mock interviews, group discussion and public speaking.	-	-	-	-	-	-	-	-	-	3	-	2	-	-
CO5	Illustrate interpersonal skills using English language confidently and effectively for personal and professional growth.	-	-	-	-	-	-	-	-	-	3	-	2	-	-
Course Code	201BS2L05 - Engineering Chemistry Lab	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Demonstrate Complexometric titrations by volumetric analysis.	2	-	-	-	-	-	-	-	1	-	-	1	-	-
CO2	Demonstrate Acid – Base titrations by instrumental analysis.	2	-	-	-	-	-	-	-	1	-	-	1	-	-
CO3	Estimate Vitamin C using volumetric analysis	2	-	-	-	-	-	-	-	1	-	-	1	-	-

CO Statements		POs												PSOs		
CO4	Prepare polymer like Bakelite.	2	-	-	-	-	-	-	-	-	1	-	-	1	-	-
CO5	Prepare alternative fuel like Bio-Diesel.	2	-	-	-	-	-	-	-	-	1	-	-	1	-	-
<b>Course Code</b>	<b>201ES2L10 - Programming for Problem Solving Using C Lab</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	
CO1	Develop the basic programs in C and draw the flowcharts using Raptor.	2	1	-	-	1	-	-	-	-	-	-	3	-	-	
CO2	Make use of conditional and iterative statements to solve real time scenarios in C.	3	2	1	1	3	-	-	-	-	-	-	3	-	-	
CO3	Apply the concept of arrays, modularity and strings to handle complex problems.	3	2	1	1	3	-	-	-	-	-	-	3	-	-	
CO4	Apply the dynamic memory allocation functions using pointers.	3	2	-	-	3	-	-	-	-	-	-	3	-	-	
CO5	Develop programs using structures, and Files.	3	2	1	1	3	-	-	-	-	-	-	3	-	-	
<b>Course Code</b>	<b>201MC2T02 - Constitution of India</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	
CO1	Explain historical background of the constitution making and its importance for building a democratic India.	-	-	-	-	-	-	-	-	2	-	-	-	-	-	
CO2	Compare the functioning of three wings of the government i.e. executive, legislative and judiciary.	-	-	-	-	-	-	-	-	3	-	-	-	-	-	
CO3	Interpret the value of the fundamental rights and duties for becoming good citizen of India.	-	-	-	-	-	-	-	-	3	-	-	-	-	-	
CO4	Compare the decentralization of power between central, state and local self-government.	-	-	-	-	-	-	-	-	3	-	-	-	-	-	
CO5	Extend the knowledge in strengthening of the constitutional institutions like CAG, Election Commission and UPSC for sustaining democracy.	-	-	-	-	-	-	-	-	2	-	-	-	-	-	







	CO Statements	POs												PSOs	
Course Code	201PT3L01 - Principles of Geology for Petroleum Engineers lab	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Make use of maps to estimate reservoir area, thickness, and draw lithostratigraphy columns.	3	-	-	-	-	-	-	-	2	2	-	1	-	1
CO2	Construct Geological map, strike, dip at any chosen location/ different geological locations and do sampling for paleontological studies at any location.	3	-	-	-	-	-	-	-	2	2	-	1	-	1
CO3	Estimate the levels of existing ground with the help of auto level.	3	-	-	-	-	-	-	-	2	2	-	1	-	1
CO4	Find out the oil-water contact.	3	-	-	-	-	-	-	-	2	2	-	1	-	1
CO5	Identify different types of rocks	3	-	-	-	-	-	-	-	2	2	-	1	-	1
Course Code	201PT3L02 - Fluid Mechanics for Petroleum Engineers Lab	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Identify laminar and turbulent flows in major equipment like Reynolds apparatus and operate fluid flow equipment and instrumentation.	-	-	-	-	-	-	-	-	3	2	-	2	-	2
CO2	Calculate momentum transfer principles and experimentation methods.	-	-	-	-	-	-	-	-	3	2	-	2	-	2
CO3	Classify involving Bernoulli's equation for the transport of acidic, alkaline, hydrocarbon and miscellaneous incompressible fluids in pipelines.	-	-	-	-	-	-	-	-	3	2	-	2	-	2
CO4	Solve pressure drop calculations and energy requirements associated to compressible fluid flow in circular and rectangular ducts.	-	-	-	-	-	-	-	-	3	2	-	2	-	2
CO5	Apply pressure drop in packed and fluidized beds and prepare reports following accepted writing and graphical techniques.	-	-	-	-	-	-	-	-	3	2	-	2	-	2
Course Code	201PT3L03 - Mathematical Methods Lab	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Calculate molar volume and Compressibility from Redlich-Kwong Equation.	-	-	-	-	3	-	-	-	-	-	-	2	3	-





	CO Statements	POs												PSOs	
Course Code	201PT4T05 - Petroleum Geology	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Outline different source rocks and choose better one for oil formation.	2	-	-	-	-	-	-	-	-	-	-	3	2	-
CO2	Analyze the different factors for the mechanism of oil migration.	3	-	-	-	-	-	-	-	-	-	-	3	2	-
CO3	Apply the petrophysical properties of reservoir and cap rocks for oil retention.	3	-	-	-	-	-	-	-	-	-	-	3	2	-
CO4	Build a geological model for ideal petroleum system	2	-	-	-	-	-	-	-	-	-	-	3	2	-
CO5	Explain the different types of sedimentary basins.	3	-	-	-	-	-	-	-	-	-	-	3	2	-
Course Code	201PT4T06 - Heat Transfer Operations	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Explain the various modes of heat transfer and the principles involved in them and its application in process industries.	3	2	-	-	-	-	-	-	-	-	-	2	-	2
CO2	Make use of individual heat transfer coefficients to determine over all heat transfer rate	3	2	-	-	-	-	-	-	-	-	-	2	-	2
CO3	Explain the concepts of heat transfer without phase change	3	2	-	-	-	-	-	-	-	-	-	2	-	2
CO4	Explain the concepts of heat transfer with phase change and demonstrate the radiation heat transfer	1	2	-	-	-	-	-	-	-	-	-	2	-	2
CO5	Identify the types of heat exchanger equipment and know their intended purpose	3	2	-	-	-	-	-	-	-	-	-	2	-	2
Course Code	201HS4T06 - Management and Organizational Behavior	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Explain a range of organizational behavior models key elements and roles.	-	-	-	-	-	-	-	-	1	1	1	1	-	-
CO2	Analyze the behavior of individuals and groups in organizations in terms of organizational behavior, interpersonal behavior and personality traits concepts.	-	-	-	-	-	-	-	-	1	1	-	1	-	-

	CO Statements	POs												PSOs		
CO3	Utilize various stress and emotional organizational behavior concepts, models and theories to real life management situations through case analysis.	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-
CO4	Make use of organizational communication and organization culture to understanding of organizational communication and culture to cope up with the organization better way	-	-	-	-	-	-	-	-	1	1	1	1	-	-	
CO5	Classify the different groups and teams in the organization and its features for dealing these groups in a good way for better result and motivate them	-	-	-	-	-	-	-	-	1	1	-	1	-	-	
Course Code	<b>201ES4L16 - Mechanical and Materials Science and Engineering Lab</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	
CO1	Demonstrate the material mechanical behavior under various direct loads	2	1	-	-	-	-	3	-	-	3	2	-	-	-	
CO2	Calculate the mechanical strength of cube	3	2	-	-	-	-	3	-	-	3	3	-	-	-	
CO3	Demonstrate the materials mechanical behavior under various indirect loads.	2	1	-	-	-	-	3	-	-	3	2	-	-	-	
CO4	Analyze the Structure of pure metals and alloys	0	3	-	-	-	-	3	-	-	3	2	-	-	-	
CO5	Estimate the hardness of various treated and untreated steels	2	0	-	-	-	-	3	-	-	3	2	-	-	-	
Course Code	<b>201PT4L04 - Heat Transfer Operations Lab</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	
CO1	Utilize the basics of experimental techniques for heat transfer measurements.	-	-	-	-	-	-	-	-	3	2	-	2	-	2	
CO2	Demonstrate the heat transfer equipment like heat exchangers	-	-	-	-	-	-	-	-	3	2	-	2	-	2	
CO3	Analyze process experimental data and obtain correlations to predict heat transfer coefficients for design of heat transfer systems	-	-	-	-	-	-	-	-	3	2	-	2	-	2	
CO4	Interpret the experiments at R & D level in the industry	-	-	-	-	-	-	-	-	3	2	-	2	-	2	





	<b>CO Statements</b>	<b>POs</b>												<b>PSOs</b>		
<b>CO3</b>	Illustrate the various enactments related to the protection of traditional knowledge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>CO4</b>	Interpret the concepts of Intellectual property to protect the traditional knowledge.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>CO5</b>	Explain the importance of Traditional knowledge in Agriculture and Medicine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Course Code</b>	<b>201PT4H01 - Depositional Environments Of Sedimentary Basins Of India</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	
<b>CO1</b>	Explain the general facts of the earth	2	-	-	-	-	-	-	-	-	-	-	1	2	-	
<b>CO2</b>	Explain how deltas are formed	2	-	-	-	-	-	-	-	-	-	-	1	2	-	
<b>CO3</b>	Explain how sedimentary basin are formed.	2	-	-	-	-	-	-	-	-	-	-	1	2	-	
<b>CO4</b>	Analyze each basin formation	2	-	-	-	-	-	-	-	-	-	-	1	2	-	
<b>CO5</b>	Analyze the each basin formation.	2	-	-	-	-	-	-	-	-	-	-	1	2	-	
<b>Course Code</b>	<b>201PT4H02 - Advanced Natural Gas Engineering</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	
<b>CO1</b>	Understand basic fluid phase behavior	3	2	-	-	-	-	-	-	-	-	-	2	3	-	
<b>CO2</b>	Determine the physical properties of natural gas	3	2	-	-	-	-	-	-	-	-	-	2	2	-	
<b>CO3</b>	Understand of scientific and engineering principles and their problem in natural gas engineering	3	2	-	-	-	-	-	-	-	-	-	2	2	-	
<b>CO4</b>	Formulate solution to natural gas engineering problems by scientific and engineering knowledge	3	2	-	-	-	-	-	-	-	-	-	2	2	-	
<b>CO5</b>	Design and conduct experiment, and interpret and analyze data	3	2	-	-	-	-	-	-	-	-	-	2	3	-	

	<b>CO Statements</b>	<b>POs</b>												<b>PSOs</b>	
<b>Course Code</b>	<b>201PT4H03 - Coal Bed Methane Engineering</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>CO1</b>	Summarize the necessity of CBM exploitation and different geological influences on coal formation	3	2	-	-	-	-	-	-	-	-	-	2	2	-
<b>CO2</b>	Apply the concept of isotherms for the indirect and direct determination of gas content in CBM reservoir	3	2	-	-	-	-	-	-	-	-	-	2	2	-
<b>CO3</b>	Make use of different reservoir engineering concepts to analyze the CBM reservoir	3	2	-	-	-	-	-	-	-	-	-	2	2	-
<b>CO4</b>	Select the different geophysical logs for formation evaluation and well completion techniques suitable for CBM reservoirs	3	2	-	-	-	-	-	-	-	-	-	2	2	-
<b>CO5</b>	Select the types of hydraulic fracturing fluids and produced mine water disposal techniques suitable for CBM reservoirs	3	3	-	-	-	-	-	-	-	-	-	2	2	-
<b>Course Code</b>	<b>201PT4M01 - Basic Concepts In Hydrocarbon Exploration</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>CO1</b>	Apply the different geological approaches for exploration of oil and gas deposits	3	-	-	-	-	-	-	-	-	-	-	-	2	-
<b>CO2</b>	Utilize the principles of gravity prospecting to explore the subsurface rocks favorable for hydrocarbon deposits	3	-	-	-	-	-	-	-	-	-	-	-	2	-
<b>CO3</b>	Make use of principles of magnetic method to explore sedimentary basins	3	-	-	-	-	-	-	-	-	-	-	-	2	-
<b>CO4</b>	Apply the method of seismic refraction and reflection to estimate the velocity and thickness of different subsurface geological layers	3	-	-	-	-	-	-	-	-	-	-	-	2	-
<b>CO5</b>	Make use of principles of different cased hole and production logging techniques to decipher subsurface properties.	3	-	-	-	-	-	-	-	-	-	-	-	2	-
<b>Course Code</b>	<b>201PT4M02 - Fundamentals of Earth Science</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>
<b>CO1</b>	Explain the general facts of the earth.	-	2	-	-	-	-	-	-	-	-	-	1	-	2
<b>CO2</b>	Analyze the different processes for the formation of land forms.	-	2	-	-	-	-	-	-	-	-	-	1	-	2
<b>CO3</b>	Analyze the different erosion cycles and their products.	-	2	-	-	-	-	-	-	-	-	-	1	-	2

CO Statements		POs												PSOs		
<b>CO4</b>	Compare and classify various kinds of rocks.	-	2	-	-	-	-	-	-	-	-	-	-	1	-	2
<b>CO5</b>	Explain how basins and deltas are formed.	-	2	-	-	-	-	-	-	-	-	-	-	1	-	2
<b>Course Code</b>	<b>201PT4M03 - Fluid Flow Through Porous Media</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PSO1</b>	<b>PSO2</b>	
<b>CO1</b>	Apply basic concepts of Porous Media	-	2	-	-	-	-	-	-	-	-	-	-	1	-	2
<b>CO2</b>	Apply the concepts of Reynold's Number for Porous media	-	2	-	-	-	-	-	-	-	-	-	-	1	-	2
<b>CO3</b>	Apply and estimate the reserves based on General Material Balance Equation.	-	2	-	-	-	-	-	-	-	-	-	-	1	-	2
<b>CO4</b>	Apply the theory's in displacement mechanisms	-	2	-	-	-	-	-	-	-	-	-	-	1	-	2
<b>CO5</b>	Apply Basic Heat Transfer for flow through Deformable Porous Media	-	2	-	-	-	-	-	-	-	-	-	-	1	-	2