JCT COLLEGE OF ENGINEERING AND TECHNOLOGY PICHANUR, COIMBATORE - 641 105

SUMMARY SHEET

2.5. Evaluation Process and Reforms

S.NO	CRITERIA	PAGE NO
1	2.5.1 Reforms in Continuous Internal Evaluation (CIE) System at the Institutional level	1
2	2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety	26
3	2.5.3 Mechanism to deal with examination related grievances is transparent, time- bound and efficient	53
4	2.5.4 The Institution adheres to the academic calendar for the conduct of CIE	77 .*

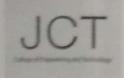
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Ort.G. Resmorth, M.E. Ph.D., PRINOPAL JCT College of Engineering and Technology Pichenut, Colmbatore - 641 105

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JCT COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Petroleum Engineering

Pichanur, Coimbatore - 641105

CIRCULAR

Ref: Cirl/HoD/PE/2/2019

27.02.2019

Sub: Third Internal Test - Reg.

This is to inform that Internal Test – III is scheduled from 04.03.19 to 06.03.19 (11:00 am to 12:30 pm and 02:30 pm to 04:00 pm). All the students should attend the test compulsorily. (To be read in the class room)

Epr Faculty:

The Faculty members are asked to set the question paper with answer key for 4 units and get the sign from HOD then submit the question paper to the Department Exam cell on or before 01.03.19 by 1.00 pm.

Class advisors are requested to submit the result analysis for the CIA-III on or before 09.03.2019.

Circulation to:

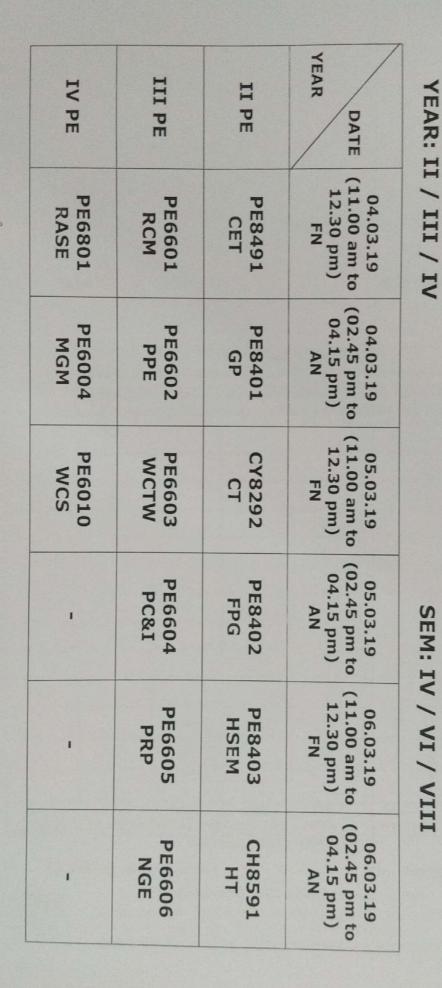
- Faculty members through HOD
- MBis(Test II Schedule).
- > II, III, IV year students through HODs (To be read in the class room)

HOD

TEST COORDINATOR

Nehop

F.



JCT COLLEGE OF ENGINEERING AND TECHNOLOGY Pichanur, Coimbatore - 641105

INTERNAL TEST- III TIME TABLE

ACADEMIC YEAR: 2018 - 2019 (ODD SEMESTER)

AUSTRIA

JCT COLLEGE OF ENGINEERING AND TECHNOLOGY,

PICHANUR, COIMBATORE - 641105 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING DUTY ALLOCATION LIST FOR FACULTY



INTERNAL EXAM - III

SEM : EVEN SEMESTER

ACADAMIC YEAR : 2018-19

S.N NAME OF THE 04.03.19 04.03.19 05.03.19 05.03.19 06.03.19 06.03.19 FACULTY / DATE (FN) 0. (AN) (FN) (AN) (FN) (AN) 1 G.Balachandran D D 2 Mr.G.Mahendran D D D 3 Mr.S.Jenish D D D 4 Mr.N.Aravindh D D 5 V.Purushothaman D Di 6 D Arun Ammaiappan D D 7 Shabil John J P D D 8 Gengadevi R D 9 Bharathiraja P D 11 K Jayajothi D 12 G Sarojini D 13 Thahseen D 14 A.Kousalaya D ** All the invigilators are requested to report the invigilation duty by 10.50 am and 2.40 pm in the Department examination section without fail.

** HOD are requested to ensure that the altered duty by their faculty before sanctioning the leave.

ORDINATOR

CIRCULATION TO : FACULTY THROUGH HOD Department & Petroleurn Engg.

II-YEAR, IV- SEM CIA-IV ATTENDANCE SHEET

		SUBJECT NAME	04.03.19	04.03.19	05.03.19	05.03.19 AN	06.2.19 FN	06.2.19 AN
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11	720917219012	ASHOK KUMAR V	AB	AB	July	AB	hily	
12	720917219013	BRIGHTON BALAN.J	AB	MAB	AB	BB	1	
13	720917219014	DHANUSH.P	P.M	AB	P.DFT	P-257	p. p.7	
14	720017219015	DHINESHKUMAR G	OFTB	AB	BB	083		
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JCT COLLEGE OF ENGINEERING AND TECHNOLOGY PICHANUR, COIMBATORE-641105 DEPARTMENT OF PETROLEUM ENGINEERING



T.	nate / Session	: 25/01/2019)	Duration	: 90 Minutes	
xam I	nation :	CIA-I		Department	: PE	
	Title	: NATURAL GA	S ENGINEERING	Course Code	: PE6606	
-	Sem	: III/VI		Maximum Marks	: 50	
Carl Carl	vic vear	: 2018-2019		Semester Type	: EVEN	
OURS	E OUTCOMES	C315				
-			ANSWER ALL	QUESTIONS		
NO	Course Outcomes	Bloom Taxonomy		Questions		Marks
1	C315.1	R	Explain about sedimen	ntation process.		2

List the various sources of information for natural gas and its

7	3		U		
	4	C315.1	R	What are the various applications of natural gas.	2
	a 5	C315.1	U	Define petroleum reservoir.	2
		1		PART-B	
	6	C315.1	R	Briefly explain about the various branches of petroleum industry.	10
rea	R	C315.1	R	Explain about the various theories describing the origin of petroleum.	10
	8	C315.1	U	Difference between natural gas, compressed natural gas, Liquefied natural gas and liquefied petroleum gas.	10
-) '	k°		0	How earth temperature and earth pressure influenced the oil and gas	10
	9	C315.1	U	production with example.	10
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C315.1

C315.1

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U - UNDERSTANDING

E- EVALUATING

Define historical geology.

COURSEINCHARGEHOD

AP- APPLYING C - CREATING n

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S. Sarawana Kuma 720916219034 Natural Gras Engenciny Interal test I Natural Gas Engrowing. petroleum rerevoi 21-1-19 Petrolum reservoir is an Other wise Known as 07 2 gas rerevoir. The petroleum rescuoir is an Study of oil 2 gas from Jub Surfac & production or crabb to reater daily l'é ware called petrobum l'serroci. The Sunsident of oils gas emploration for boctom hab to top hole exploration were called pertrolum servoir 01 Vaious application of Natural Gras The Natural bias were implided in Several way of human life . They wer. unes 1. mainly und for JPG1. LNG1. System. 2. mainly gather for hospital & Other industrial Confirmed. Jedument procem The Sectionment process were caud, the Soil or Other particle that Sedement by the floar of hely that Water & air & other contemption.

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Vavious branches of petrolum Inderstry: In a reservoir that petrolum industry have Sevearly type of proun to handle the Sauce attained. They over 1. Surveying a land Surfar. 2. Confinuvind the Greo logist 3. Confiniament the Socurle 9 hydrocarbon. 4. Study the Land Surface of liseroui portion. 5. Cost were estimateu dos the development dos Hydro larbon. 6. Exploration of Hydrocarbon Sample Collection 7. Reservouri Simalation handle. 9. Stimulation of wave auangment for blu the Seismic waves. a. Well Completition & coorking System for the referous procen.

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composition 9 - Natural gas. In's an The compasition of Natural gas werdensity

Sevail percentage.

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Prattina - 0.05 10 0.281.

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Cj Temper aten volum 5.1 9 Tampucetter. う où s gas production lecow. 1. primary Delover 2. Sclonday Moory le cony 3. Thermal gan inj or with Thermod Sword hum prum an Quer Tonger eren prus -)

Gely col /amine process:

It is the components having 45 - 85%. of Citycol Amine 5 - 25 %. of water 10 - 30%. of Gelyco).

Advantages,

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It is the combination of deby deation cand composition of the anune fliels.

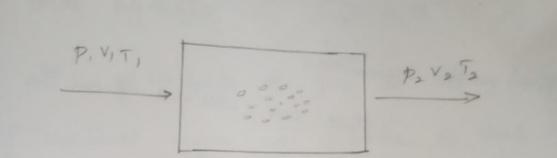
Disadvantages: It is the having high toaming and uttility process.

Sulfinol process_ It has the base components of

Sulphinol and Dur propa (DIPA)

Advantages :.

high toaming high ultility Lou pressure performance.



At constant $p, T_1 \rightarrow T_2 \quad V_1 \rightarrow V'$

At constant T, P, -> P2 V' -> T2

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9?) Ideal gas laws behavious.

P. V. = P2 V2 $v' = \frac{T_2 v_2}{T_1}$

PIV' = P2V2 => PT F Grath Co TI T2

PV = R.

6. Gras hydrates

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Types of gas hydrates.

* Eathane * Methane * Carbon de orede * Hydrogen sulphete

Eathene gas hy drates. It is the barre of call

rand common of all in the hydrote

-gau Types of condensate statellyation þ ?) flash vapourization suible N 91°) Gelycol vajourization bstan Gear sweatening process: 3. in wi Removal of sour gas or audio igas/solution from the natural igas in that / Called gas dweetening projects. Various composition of natural gas: nable Methane and higher alkanes consta Has, Nitrogen, and CO2. Suspen Grathering lines :. which us used to connect the other targets connection of two targets Transition lineso. is the transition lines

JUI Gelycol l'amine processor It is the reald treating process 5. componente 10 - 30%. of Gily col (any 45 - 85 7 - of Amune 5-25% of water It was combination of both dehad They are and hydrate process Mapoul C men The comp o douge o small a 72 10 AL REAL Est

T T T T T T T T		10	Derive fundamental equation of flow of fluid dynamics (Continuity, Momentum and energy equations)	Derive fundamental equation of flo Momentum and energy equations)	U	C315.3	98
ICT COLLEGE OF ENGINEERING AND TECHNOLOGY PICHANUR, COINBATORE-641103 ILIVINAL CASE ENGINEERING ILIVINAL GAS ENGINE TADO ILIVINAL GAS ENGINE TADO ILIVINAL GAS ENGINE TADO ILIVINAL GAS ENGINE T		10	equation for compressible flow in pipes.	Derive the general e	C	C315.3	69
UC COLLEGE OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF PETROLEUM ENGINEERING an Date / Session : 19 /02/2019 Duration : UD/UL Sender Duration : So Minutes mination : CA-III Duration : So Minutes Department : PE se Title : NATURAL GAS ENGINEERING Course Code : PE6606 : III/VI Emilityear : 2019-2019 Maximum Marks : So : OUTCOMES: : 2019-2019 Marks : 2019-2019 : OUTCOMES: : 2019-2019 What are the advantages of gas compressor. : 2 : OUTCOMES: : 400 What are the advantages of gas compressor. : 2 : OUTCOMES: : 400 : 400 : 2 : OUTCOMES: : 400 : 2 : 2 : OUTCOMES: : 400 <t< td=""><td></td><td>10</td><td>quation to calculate the power requirement</td><td>Derive the general e</td><td>R</td><td></td><td>7</td></t<>		10	quation to calculate the power requirement	Derive the general e	R		7
UCT COLLEGE OF ENGINEERING AND TECHNOLOGY PICHANUR, COIMBATORE-641105 TUP n Date / Session : 19 /02/2019 Imation : 19 /02/2019 Imation inhabion : CLA-III Imation : So Minutes ise Title : NATURAL GAS ENGINEERING Duration : So Minutes Seminic Vear : 2018-2019 Maximum Marks : So 3 C315 ANSWER ALL QUESTIONS Course Code PE6606 Course Bloom Questions Marks C315.3 R Define natural gas compression 2 C315.3 R What are the advantages of gas compressor. 2 C315.3 U What is meant by positive displacement compressor. 2 V What are the factor to be consider while selecting a compressor. 2 PART-B V PART-B		10	nt types of compressor? Briefly explain about sor with neat diagram.	What are the different centrifugal compress	R	C315.3	gn.
UCL COLLEGE OF ENGINEERING AND TECHNOLOGY PICHANUR, COMBATORE-641105 DEPARTMENT OF PEROLEUM ENGINEERING DEPARTMENT OF PEROLEUM ENGINEERING Introduction nable Session: 19 /02/2019 Duration Introduction nable CLA-TIT Duration 19 /02/2019 Duration 10 /01 set Tible : CLA-TIT Department : PE /Sem : ITT/VI Department : PE /Sem : ITT/VI Maximum Marks : 50 Semonry Caurse Bloom AnSWER ALL QUESTIONS Marks : Outcommes Taxonomy Questions Marks Q15.3 R Define natural gas compression 2 Q15.3 R What are the advantages of gas compressor. 2 Q15.3 Q What are the advantages of gas compressor. 2 Q15.3 Q What are the advantages of gas compressor. 2 Q15.3 Q U What are the factor to be consider while selecting a compressor. 2			RT-B	PAI			
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Course Bloom Course Bloom Answer All questions Maximum Marks : 50 Semination 2015 Course of taxonomy Answer All questions Marks : 20		2	ages of gas compression	What are the advant	R	C315.3	2
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JCT COLLEGE OF ENGINEERING AND TECHNOLOGY PICHANUR, COIMBATORE-641105 TUX PICHANUR, COIMBATORE-641105 Image: College of the second					IN/III :	em c vear	ademi
JCT COLLEGE OF ENGINEERING AND TECHNOLOGY PICHANUR, COIMBATORE-641105 / Session : 19 /02/2019 A CIA-III CIA-III Duration				GAS ENGINEERING		Itte	urse I
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U - UNDERSTANDING E- EVALUATING

AP- APPLYING C - CREATING

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COURSE ENCHARGE

AN - ANALYSING R- REMEMBERING

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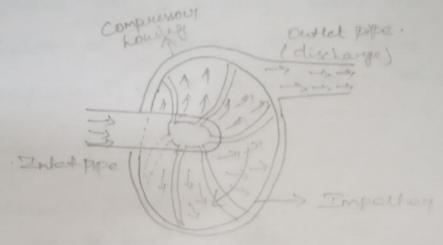
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* It is used for restating the fluid at a high speed from opene place to a another place.

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JCT COLLEGE OF ENGINEERING AND TECHNOLOGY PICHANUR, COIMBATORE-641105 DEPARTMENT OF PETROLEUM ENGINEERING



150 001

Exam Date / Session : 05/02/2019 : 90 Minutes Duration Examination : CIA-II Department : PE Course Title : NATURAL GAS ENGINEERING : PE6606 Course Code

Year / Sem : III/VI Maximum Marks : 50 Academic year : 2018-2019 Semester Type : EVEN COURSE OUTCOMES: C315 2

			ANSWER ALL QUESTIONS	
5.No	Course Outcomes	Bloom Taxonomy	Questions	Marks
1	C315.2	R	Explain about gathering lines and transition lines.	2
2	C315.2	R	List the types of condensate stabilization.	2
3	C315.2	U	Define gas sweetening process.	2
4	C315.2	R	Explain the various compositions of natural gas	2
5	C315.2	U	Explain glycol amine process.	2
			PART-B	
6	C315.2	R	Briefly explain about gas hydrates and its types. Also explain about the hydrate formation condition and hydrate preventing methods.	10
7	C315.2	R	Explain about Condensate stabilization and its types. Briefly explain about flash vaporization process.	10
8	C315.2	U	Briefly explain about Acid gas treatment process and its types	10
9	C315.2	U	Derive general equation of state for an cubic equation.	10

AN - ANALYSING

R- REMEMBERING U - UNDERSTANDING E- EVALUATING AP- APPLYING C - CREATING

COURSEINCHARGE

Flack Vapoundation .: natural vous (ie) un called current from in batch separation Diagram o-Flesh Costerious Z HO touch Flach sweatening stabilization It is the act Flauk fanks Flagh Vapenization HD proless. To a logh pressure tull upor systems Rowbuchus moun type of R flach vaporingation Flask condensate 07 fants . V Smorton To A los feling Strates 智 ALON Hash the which aken Com H the

re satio * Figue of all, the food of the flash v on te vapourization is the condensate from the un let flow * that us feed into the Hp flash tanks ation which contains flash sweetening get cand a compressos at the top of the tank. * The sest of the feed is to the and Hp low pre full up syster flash tank at a high presure full yas systems with a compressor that are also connected to the next low pressure flash tank. * The lp flash tank is connected to the previous up flash tank. That is by the compresses.

At the remaining feed is to a stripper of the remaining feed is to a stripper full which absorbes most that at low pressure full

egas system. * After that, that is stored in a

Storage tank.

onate

pper

Acid ugas freatment:-* Has and con is presenting 8. natural upas # (i.e) is called Aced gas , Addie dolution in the presence of west * It is a "poisonous yas". * If it used cas a relementie four it may cause severe problems and lines the * while using natural you a doment fuel, of it may check that a feer from that ar co2/ combline with the

Types of Acid you treatmente.

There are of types,

* Iron - sponge sweetening * Alkanolamine sweetening

* alyes/anune process * sulfine! process