

#### DEPARTMENT OF PETROLEUM ENGINEERING

Ref. No.: PU/SOE/PET/SD/HMTPE/2022-23/CIR/01

Date: 11/10/2022

#### <u>Circular</u>

**Academic Year:** 2022 – 2023

Course: PET2008

Semester: 6<sup>th</sup>

Dear students of 6PET-1,

It is to inform you all that a "Experiential Learning" activity for the course **PET2008 Heat and Mass Transfer for Petroleum Engineering** is schedule on 18/10/2022, from 9:00 AM to 10:40 AM (OFFLINE MODE).

It is mandatory for all the student to remain present during the activity session and take part in numerical solving.

Dr. Abhinav Kumar Instructor In-charge





Presidency University, Bengaluru Itgalpur, Rajanakunte, Yelahanka, Bengaluru – 560064

#### **REPORT ON EXPERIENCIAL LEANING**

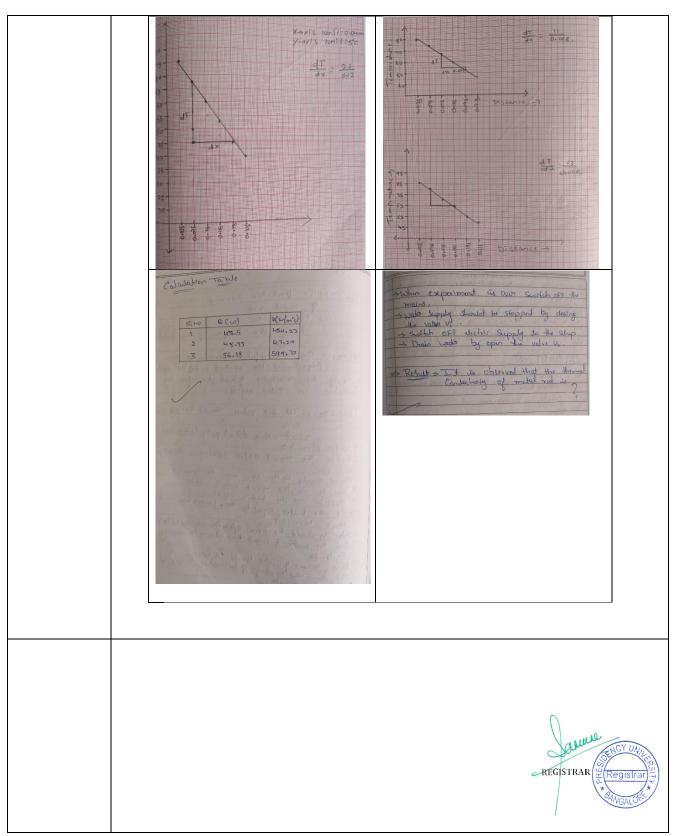
Circular Date		Dtd: 11/10/20	22				
and No.	PU/SC	e/pet/sd/hmtpe/2	022-23/CIR/01	2-23/CIR/01 Date of E		18.10.2022	
Type of learning	10/30	Skill development		Event T	уре:	Experiential Learning	
Mode of Event:		Offline No. o Participa			-	27	
Course Code/Course Name	PET2008	B Heat and Mass Tra	nsfer for Petroleum	Engineering			
Department	Departr	ment of Petroleum	Engineering				
Instructor In charge	-	inav Kumar nt Professor, Depar	rtment of Petroleu	m Engineerin	Ig		
Event objective	experie		petroleum industi	ry with a p		the topic related to the ective of improving the	
Topic discussed	Differer	Different experiments based on Heat Transfer Concepts					
Outcome of the event	i. ii.	Improvement in u Improvement in s				inquisitive.	
	i. ii.	Type of Assessme Task Assigned:	ent: Experiential le	arning			
	Grp. No.	ID No.	Student Name		Topic for	Experiment	
		20201PET0001	Sohael K S				
	1	20201PET0004	Rachan Balakris	hna Shetty	•	r controlled heat hrough composite	
	1	20201PET0006	Praveen B		wall	niougii composite	
Assessment		20201PET0008	Nallabhotula Du	shyanth			
		20201PET0033	Shekar				
		20201PET0010	Pradeep Kumar	Rathod	Darallol / (	Counter flow heat	
	2	20201PET0011	A M Rizwan		transfer	l under	
		20201PET0012	Mohammed Sha	azan		SENCY UNITED	
		20201PET0014	Zaheed Ahmed			REGISTRAR	
	3	20201PET0015	Mujtba Aamir A	hmed	Emissivity	Measurement	
		20201PET0031	Bandla Hareesh		LIIISSIVILY		



Presidency University, Bengaluru Itgalpur, Rajanakunte, Yelahanka, Bengaluru – 560064

20	0201PET0018	Nuthan M S	
	0201PET0018	Pranav A	-
	0201PET0019 0201PET0021		
		R Janardhan Reddy Mohammed Shadim D K	
	0201PET0022		-
	0201PET0023	Prathivraj S	Heat transfer in forced
	0201PFT0026   Aimal Akhar Bahu		convection
			-
	0201PET0016	Sidharth Murli	
	0201PET0009	Kotishwaran V	
5 —	0201PET0034	Kommineni Hemanth	Thermal conductivity of
	0201PET0029	Pavan Goud	metal rod
	0201PET0017	Bhoomika Satish	
	0191PET0011	Fayaz Pasha	
6	0211LPE0001	Muhammed Swalih V P	Unsteady heat transfer
20	0191PET0009	C S Nishant	onsteady near transfer
	0201PET9001	Mohammed Shahid	
iii. Sar	mple answers b	thermal conductivity DBSERVA	and the second se
iii. Sar	mple answers b 2 11 To find the 9 model rod 1.2 To Add the along the along the Experiment, the apply the principles during the via Experiment, the apply the principles during the via to continue was solution to Salt ab	thermal conductivity Noviotion & Temporter length of the mitel rol Completion of this student snowly be able g has transfir by gride. Cheffeldian of this student snowly be able g has transfir by gride. CHECULA M= 260 × 1000 60 01 = 4,33 × 00 Switch given on the part (NO Switch given on the part) (NO Switch given on the part (NO Switch given on the part) (NO Switch given on the	Res         Res <thres< th=""> <thres< th=""> <thres< th=""></thres<></thres<></thres<>







Event photo	Google	5G9M+G75 PRE 560089, India Lat 13.168472° Long 77.53354° 18/10/22 09:55	AM GMT +05:30	nataka
	SI. No.	ID No.	Student Name	Attendance
	1	20201PET0001	Sohael K S	Р
	2	20201PET0004	Rachan Balakrishna Shetty	Р
	3	20201PET0006	Praveen B	Р
	4	20201PET0008	Nallabhotula Dushyanth	Р
Attendance	5	20201PET0009	Kotishwaran V	Р
sheet	6	20201PET0010	Pradeep Kumar Rathod	Р
	7	20201PET0011	A M Rizwan	Р
	8	20201PET0012	Mohammed Shazan	Р
	9	20201PET0014	Zaheed Ahmed	P and Section
	10	20201PET0015	Mujtba Aamir Ahmed	
	11	20201PET0016	Siddharth Murali	P ANGALORE



12	20201PET0017	Bhoomika Satish	Р
13	20201PET0018	Nuthan M S	Р
14	20201PET0019	Pranav A	P
15	20201PET0021	R Janardhan Reddy	Ρ
16	20201PET0022	Mohammed Shadim D K	Р
17	20201PET0023	Prathivraj S	Р
18	20201PET0026	Ajmal Akbar Babu	P
19	20201PET0029	Pavan Goud	P
20	20201PET0030	Aqib Ahmed Sharieef	P
21	20201PET0031	Bandla Hareesh	P
22	20201PET0033	Shekar	P
23	20201PET0034	Kommineni Hemanth	P
24	20201PET9001	Mohammed Shahid	P
25	20191PET0009	C S Nishant	P
26	20191PET0011	Fayaz Pasha	P
27	20211LPE0001	Muhammed Swalih V P	P

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Signature of Instructor In charge Dr. Abhinav Kumar Assistant Professor Department of Petroleum Engineering

Dr. Suman Paul Professor and Head Department of Petroleum Engineering

June REGISTRAR Registra



#### DEPARTMENT OF PETROLEUM ENGINEERING

Ref. No.: PU/SOE/PET/SD/PIC/2022-23/CIR/01

Date: 01/05/2023

#### <u>Circular</u>

**Academic Year:** 2022 – 2023

Course: PET2005

Semester: 4<sup>th</sup>

Dear students of 4PET-1,

It is to inform you all that a "Experiential Learning" activity for the course **PET2005 Fundamental of Instrumentation and Control Engineering** is schedule on 05/05/2023, from 9:00 AM to 10:50AM (OFFLINE MODE).

It is mandatory for all the student to remain present during the activity session and take part in numerical solving.

Dytheyee

Dr. Sourav Mukherjee

Instructor In-charge





# **Presidency University, Bengaluru** Itgalpur, Rajanakunte, Yelahanka, Bengaluru – 560064

#### **ANNEXURE-I**

SI. No.	ID No.	Student Name
1	20211PET0001	MOHAMED SAADULLAH S
2	20211PET0002	ROSHAN T
3	20211PET0003	SYED LUQMAN J
4	20211PET0004	BELIM MOH SAAD MOHAMMEDBHAI
5	20211PET0005	MOHAMMAD SUHAIL
6	20211PET0008	VANKALA JAI SPHOORTHI
7	20211PET0009	AFEEZ
8	20211PET0010	HITHESH T
9	20211PET0011	GANUGA ROSHAN
10	20211PET0012	MOHAMED NAIF NIHAD ALI
11	20211PET0013	DEEPAK JADHAV
12	20211PET0014	DARSHAN D P
13	20211PET0015	MOHAMMAD YASIR BYAKOD
14	20211PET0016	ASMA THASNIM
15	20211PET0017	IBRAHIM NAWAZ M
16	20211PET0018	SANDEEP IYAGAR
17	20211PET0019	KIRAN EKIRAN
18	20211PET0020	YASHWANTH GOWDA M
19	20211PET0021	MAYUR P
20	20211PET0022	YASHWANTH S
21	20211PET0023	MOHAMMED SHABAZ KHALANDER D
22	20211PET0024	BOLLAMA REDDY HIMAVENKATA MANKANTHA
23	20211PET0025	FAZIL SHAREEF H A
24	20211PET0026	PATEL MOHAMMED ADNAN MOHAMMED GOUS
25	20211PET0027	SYED USMAN
26	20211PET0028	ZOYA FALAK
27	20201PET0027	YARRAMSETTI CHAITANYA SRI
28	20191PET0050	SHAIK GOUSPEER VALI
29	20221LPE0001	SHAIK TABISH RIYAZAHMED



Presidency University, Bengaluru Itgalpur, Rajanakunte, Yelahanka, Bengaluru – 560064

#### **REPORT ON EXPERIENTIAL LEANING**

Circular Date		Dt: 01/05/20	23					
and No.	PU/	SOE/PET/SD/PIC/20	22-23/CIR/01	Date of Eve	nt 05.05.2023			
Type of learning		Skill development		Event Type	: Experiential Learning			
Mode of Event:		Offline No. ( Participa			<b>5):</b> 29			
Course Code/Course Name	PET200	5 FUNDAMENTAL OF	FINSTRUMENTATI	ON AND CONTROL E	NGINEERING			
Department	Departi	ment of Petroleum	Engineering					
Instructor In charge		ırav Mukherjee nt Professor, Depa	rtment of Petrole	um Engineering				
Event objective	experie		petroleum indus	try with a prima	nts on the topic related to the ry objective of improving the			
Topic discussed	Differer Concep	·	ased on Fundan	nental of Instrun	entation and Process Control			
Outcome of the event	i. ii.	Improvement in u Improvement in s			nt and inquisitive.			
	i. ii.	Type of Assessme Task Assigned:	ent: Experiential I	earning				
	Grp. No.	ID No.	Student	Name	Topic for Experiment			
		20211PET0001	MOHAMED SAAD	ULLAH S				
		20211PET0002	ROSHAN T					
		20211PET0003	SYED LUQMAN J		CALIBRATION OF			
Assessment	1 20211PET0004 BELIM MOH SAAD THERMOCOUP							
		20211PET0005 MOHAMMAD SUHAIL						
		20211PET0008	VANKALA JAI SPI	IOORTHI	alune NCY (W)			
		20211PET0009	AFEI	Z				
	2	20211PET0010	HITHE	SH T	SINGLE TANK SYSTEM			



	-			
		20211PET0012	MOHAMED NAIF NIHAD ALI	
		20211PET0013	DEEPAK JADHAV	
		20211PET0014	DARSHAN D P	
		20211PET0015	MOHAMMAD YASIR BYAKOD	
		20211PET0016	ASMA THASNIM	
		20211PET0017	IBRAHIM NAWAZ M	
		20211PET0018	SANDEEP IYAGAR	NON-INTERACTING SYSTEM
		20211PET0019	KIRAN EKIRAN	
		20211PET0020	YASHWANTH GOWDA M	
	3	20211PET0021	MAYUR P	
		20211PET0022	YASHWANTH S	
			MOHAMMED SHABAZ	INTERACTING AND NON
		20211PET0023	KHALANDER D	INTERACTING SYSTEM
			BOLLAMA REDDY	
		20211PET0024	HIMAVENKATA MANKANTHA	
		20211PET0018	SANDEEP IYAGAR	
		20211PET0019	KIRAN EKIRAN	
	4	20211PET0020	YASHWANTH GOWDA M	MANOMETER
		20211PET0021	MAYUR P	
			20211PET0022	YASHWANTH S
		20211PET0025	FAZIL SHAREEF H A	
			PATEL MOHAMMED ADNAN	
		20211PET0026	MOHAMMED GOUS	
	_	20211PET0027	SYED USMAN	
	5	20211PET0028	ZOYA FALAK	FLUID FLOW CONTROLLER
		20201PET0027	YARRAMSETTI CHAITANYA SRI	
		20191PET0050	SHAIK GOUSPEER VALI	
	20221LPE0001	SHAIK TABISH RIYAZAHMED		
				REGISTRAR
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Event photo	Image: Constant and the set of					
	SI. No.	ID No.	Student Name	Attendance		
	1	20211PET0001	MOHAMED SAADULLAH S	P		
	2	20211PET0002	ROSHAN T	P		
	3	20211PET0003	SYED LUQMAN J	Р		
Attondance	4	20211PET0004	BELIM MOH SAAD MOHAMMEDBHAI	Р		
Attendance sheet	5	20211PET0005	MOHAMMAD SUHAIL	Р		
	6	20211PET0008	VANKALA JAI SPHOORTHI	P		
	7	20211PET0009	AFEEZ			
	8	20211PET0010	HITHESH T	P + MICALORE		
	9	20211PET0011	GANUGA ROSHAN	P		



10	20211PET0012	MOHAMED NAIF NIHAD ALI	Р
11	20211PET0013	DEEPAK JADHAV	Р
12	20211PET0014	DARSHAN D P	Р
13	20211PET0015	MOHAMMAD YASIR BYAKOD	A
14	20211PET0016	ASMA THASNIM	Р
15	20211PET0017	IBRAHIM NAWAZ M	Р
16	20211PET0018	SANDEEP IYAGAR	Р
17	20211PET0019	KIRAN EKIRAN	Р
18	20211PET0020	YASHWANTH GOWDA M	Р
19	20211PET0021	MAYUR P	Р
20	20211PET0022	YASHWANTH S	Р
21	20211PET0023	MOHAMMED SHABAZ KHALANDER D	Р
22	20211PET0024	BOLLAMA REDDY HIMAVENKATA MANKANTHA	Р
23	20211PET0025	FAZIL SHAREEF H A	Р
24	20211PET0026	PATEL MOHAMMED ADNAN MOHAMMED GOUS	Р
25	20211PET0027	SYED USMAN	Р
26	20211PET0028	ZOYA FALAK	Р
27	20201PET0027	YARRAMSETTI CHAITANYA SRI	Р
28	20191PET0050	SHAIK GOUSPEER VALI	Р
29	20221LPE0001	SHAIK TABISH RIYAZAHMED	Р

Dytheyee

Signature of Instructor In charge Dr. Sourav Mukherjee Assistant Professor Department of Petroleum Engineering

me Dr. Surtan Paul Registra Professor and Head Department of Petroleum Engineering



#### DEPARTMENT OF PETROLEUM ENGINEERING

Ref. No.: PU/SOE/PET/SD/IOGRS/2022-23/CIR/01

Date: 18/04/2023

#### <u>Circular</u>

**Academic Year :** 2022 – 2023

Course: PET2010

Semester: 6<sup>th</sup>

Dear students of 6PET-1,

It is to inform you all that a "Experiential Learning" activity for the course PET 2010 Introduction to

**Oil and Gas Reservoir Simulation** is schedule on 02/05/2023, from 1:20 PM to 2:10 PM (OFFLINE MODE).

It is mandatory for all the student to remain present during the activity session and take part in the activity

Banasha Deka.

Dr. Barasha Deka

Instructor In-charge





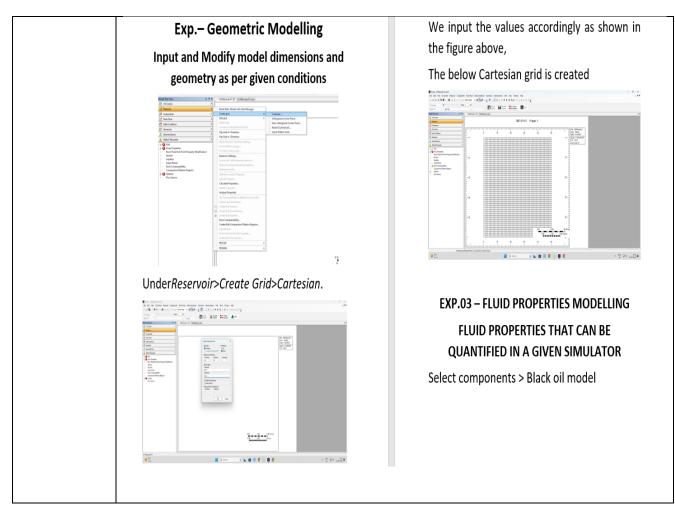
Presidency University, Bengaluru Itgalpur, Rajanakunte, Yelahanka, Bengaluru – 560064

#### **REPORT ON EXPERIENTIAL LEARNING**

Circular Date	Dtd: 18/04/2023	Data of Event	02.05.2023		
and No.	PU/SOE/PET/SD/IOGRS/2022-23/CIR/01	Date of Event	02.05.2023		
Type of learning	Skill development	Event Type:	Experiential Learning		
Mode of Event:	Offline	No. of Participant(s):	27		
Course Code/Course Name	PET2010 Introduction to Oil and Gas Reservoir	Simulation			
Department	Department of Petroleum Engineering				
Instructor In charge	Dr. Barasha Deka Assistant Professor, Department of Petrole	um Engineering			
Event objective	The event was conducted to test the knowledge of students on the topic related to the experiential learning in petroleum industry with a primary objective of improving the understanding of students through experiments.				
Topic discussed	CMG Simulator				
Outcome of the event	<ul><li>i. Improvement in understanding of theory concepts.</li><li>ii. Improvement in students' ability to be more observant and inquisitive.</li></ul>				
Assessment	<ul> <li>i. Type of Assessment: Experiential I</li> <li>ii. Task Assigned:</li> <li>Geometric Modelling - Input and Modify conditions</li> <li>iii. Sample answers by students:</li> </ul>	-	geometry as per given		

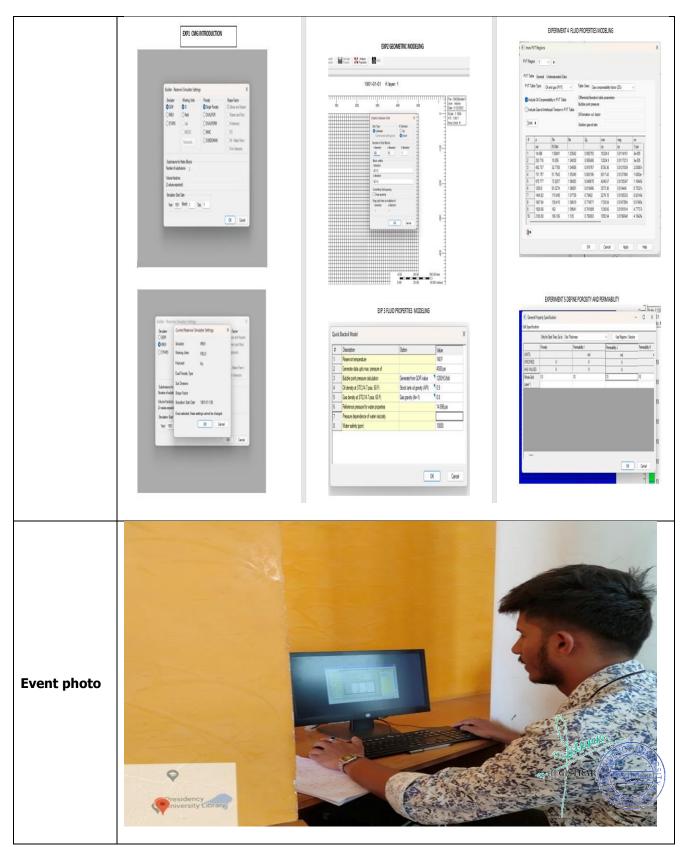
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Presidency University, Bengaluru Itgalpur, Rajanakunte, Yelahanka, Bengaluru – 560064

	SI. No.	ID No.	Student Name	Attendance
	1	20201PET0001	Sohael K S	Р
	2	20201PET0004	Rachan Balakrishna Shetty	Р
	3	20201PET0006	Praveen B	Р
	4	20201PET0008	Nallabhotula Dushyanth	Р
	5	20201PET0009	Kotishwaran V	Р
	6	20201PET0010	Pradeep Kumar Rathod	P
	7	20201PET0011	A M Rizwan	Р
	8	20201PET0012	Mohammed Shazan	P
	9	20201PET0014	Zaheed Ahmed	P
	10	20201PET0015	Mujtba Aamir Ahmed	P
	11	20201PET0016	Siddharth Murali	P
Attendance sheet	12	20201PET0017	Bhoomika Satish	P
	12	20201PET0018	Nuthan M S	P
	14	20201PET0019	Pranav A	Р
	15	20201PET0021	R Janardhan Reddy	Р
	16	20201PET0022	Mohammed Shadim D K	Р
	17	20201PET0023	Prathivraj S	Р
	18	20201PET0026	Ajmal Akbar Babu	Р
	19	20201PET0029	Pavan Goud	P
	20	20201PET0030	Aqib Ahmed Sharieef	∩ P
	21	20201PET0031	Bandla Hareesh	ENCY UN
	22	20201PET0033	Shekar	REGISTRAR
	22	20201PET0033	Kommineni Hemanth	P



24	20201PET9001	Mohammed Shahid	Р
25	20191PET0009	C S Nishant	P
26	20191PET0011	Fayaz Pasha	P
27	20211LPE0001	Muhammed Swalih V P	Р

Banasha Deka.

#### Signature of Instructor In charge Dr. Barasha Deka

Assistant Professor Department of Petroleum Engineering

Dr. Suman Paul Professor and Head Department of Petroleum Engineering





#### DEPARTMENT OF PETROLEUM ENGINEERING

Ref. No.: PU/SOE/PET/SD/RFM/2022-23/CIR/01

Date: 15/05/2023

#### <u>Circular</u>

Academic Year: 2022 – 2023

Course: PET2012

Semester: 4<sup>th</sup>

Dear students of 4PET-1,

It is to inform you all that a "experiential learning" activity for the course **PET2012 Reservoir Fluid Mechanics** is schedule on 25/05/2023, from 9:00 PM to 10:40 AM (OFFLINE MODE). It is mandatory for all the student to remain present during the activity session and take part in numerical solving.

Dr. Abhinav Kumar

Instructor In-charge





Presidency University, Bengaluru Itgalpur, Rajanakunte, Yelahanka, Bengaluru – 560064

#### **REPORT ON EXPERIENCIAL LEANING**

Circular		Dtd: 15/05/	2023								
Date and No.	PU/S	SOE/PET/SD/RFM/	2022-23/CIR/01	Date of Event	25.05.2023						
Type of learning		Skill develop	oment	Event Type:	Experiential Learning						
Mode of Event:		Offline		No. of Participant(s):	29						
Course Code/Cours e Name	PET2012	Reservoir Fluid M	echanics								
Departmen t	Departn	nent of Petroleum	n Engineering								
Instructor In charge	-	Abhinav Kumar Stant Professor, Department of Petroleum Engineering									
Event objective	experier	The event was conducted to test the knowledge of students on the topic related to the experiential learning in petroleum industry with a primary objective of improving the inderstanding of students through experiments.									
Topic discussed	Differen	Different experiments based on Reservoir Fluid Mechanics Concepts									
Outcome of the event											
		Type of Assessm Task Assigned:	ent: Experiential le	arning							
	Grp. No.	ID No.	Student Name	Topic fo	or Experiment						
		20211PET0001	Mohamed Saadullah	S							
	1	20211PET0003	Syed Luqman J	Minor I	osses in Pipe						
Assessment		20211PET0004	Belim Moh Saad Mol	nammedbhai							
		20211PET0005	Mohammad Suhail								
		20211PET0008	Vankala Jai Sphoorth	ni	0						
		20211PET0009	Afeez		annie ENCY UNIT						
	2	20211PET0010	Hithesh T	Major L							
		20211PET0011	Ganuga Roshan		A AVGALOR						
		20211PET0012	Mohamed Naif Nihac	Ali	TOALO						



	20211PET0013	Deepak Jadhav				
	20211PET0014	Darshan D P				
3	20211PET0015	Mohammad Yasir Byakod	Reynold's Number			
	20221LPE0001	Shaik Tabish Riyazahmed				
	20211PET0017	Ibrahim Nawaz M				
	20211PET0018	Sandeep lyagar				
	20211PET0019	Kiran Ekiran				
4	20191PET0050	Shaik Gouspeer Vali	Discharge of Fluid			
	20211PET0021	Mayur P				
	20211PET0022	Yashwanth S				
	20211PET0023	Mohammed Shabaz Khalander D				
	20211PET0024	Bollama Reddy Himavenkata	-			
	202111 1 10024	Mankantha				
5	20211PET0025	Fazil Shareef H A	Impact of Jet			
	20211PET0026	Patel Mohammed Adnan				
	202111 1 10020	Mohammed Gous				
	20211PET0027	Syed Usman				
	20211PET0028	Zoya Falak				
	20201PET0027	Yarramsetti Chaitanya Sri	-			
6	20211PET0020	Yashwanth Gowda M	Bernoulli's Theorem			
	20211PET0016	Asma Thasnim				
	20211PET0002	Roshan T				
 iii.	Sample answers	by students:				





	S. Theorem Apportun	· DESERVATIONS :		
· DETECTIVE : CO VERIES	moull's equation experimentally	S-NO RI R2 ES hi h2 Com) Em3 LSI (cm) (cm)	hs hu hs ho	
· PIM :		1. 20 15 9.81 28 20	21.5 76. 16.8 20 CCM	
1) To calculate the tota	energy at different points.	20 80 1810 21 00 1 +-10 to 2218 21 00 0	194 3 14.5 15	
Who plot the graph be	ween total energy vs distance	3. 20 12 24 24 21	1364 0 0 0.5	
· DNTRODUCTION 1	-0	· CALCULATIONS :	and the second	
	te that when there is a continuous	theading 1:	and the second	
connection between	articles of a flowing mans of lighted,	R = R1-R2 = 20-15 = 0.0	orm	
Hu total energy at a	AN section of flow will remain the some	100 100 Q = A+R = 0.077 ×0.05		
provided there is n	reduction or addition of energy	t 9.81	- and a dece to the most	
at any point.	33	$A^{I} = \overline{Q}^{I} = \overline{3 \cdot 237 \times 10^{-R}} =$	0.555 M5-1	
· THEORY :				
	equation and is based on the law	$V_2 = \frac{O}{\omega_3} = \frac{3 \cdot 324 \times 10^{-4}}{4 \cdot 521 \times 10^{-4}} =$	a actions	
	ergy. This equation states that at two	V3= 0 = 3.524×10-4 =	1. 2496 mg 3	
sections of the field	the total everge narame the same.	as 3.140 × 10-4		
Provided that there	Ps no loss or gain of energy, between	Vu= 0 = 3024 × 10-4 =	1. 27 3 2 4 2	
the two cections. The	equation a valid only for stendy flow	V5 . Q = 3.324 × 10-4 =	1.243c mst	
as equation & exp	and as :	TS 2.140 × 10-4		
F= PI + VI	$+2_1 = P_2 + \frac{v_2}{+2_2}$	$vg = \frac{\alpha_{c}}{\alpha_{c}} = \frac{3.024 \times 10^{-4}}{3.024 \times 10^{-4}} = 0$	6673 ms	
	39 /23		less mst	
	$\checkmark$	V7= 0 = 3.924 × 10-4 = 0	A DESCRIPTION OF THE OWNER OF THE	
		$\sim$	The second se	
		and the second	The second se	
		and the second second second second		
. Description ;		$r_1 = h_1 = 28 = 0.28m$	F2 = 112 = 26 = 0.25m	
, The present expects	artal setup for bemaulin theorem is			
		$\frac{h}{h} = \frac{h}{100} = \frac{215}{100} = 0.215m$	Pu = 4 u = 7 4 = 0.076	
		$\frac{fc}{r_0} = \frac{hc}{los} = \frac{lb}{los} = 0.168 m$	10 - 100 - 21 - 0.21m	
		$\frac{bs}{m} = \frac{bs}{100} = \frac{23}{100} = 0.03m$	and the second se	
Det Maria Delatore D	PETSPEX PU VOLUMA COMUNICATE POR	EI = P1 + V12 = 0.2+ +0.30+	- 0-2++0.20F - 0.63	
Reconster takes	having converging and shorting section we fitted on this rest section at	$E_1 = \frac{P_1}{P_2} + \frac{V_1 2}{49} = 0.2t + \frac{0.30t}{2(3.41)}$	10.63	
specified what. T	e indet of the conduit is connected to	$e_2 = \frac{p_2}{p_3} + \frac{v_3^2}{a_3} = 0.275 + 0.0353$	- 0-238 m	
crethead tank : D	charge through but notion on 10	E3 = 10 + 12 = 0.215 + 0.0795		
reasened with the	help of measuring tank and stop		the state of the s	
watch	0	Ey= Py + Vy2 = 0.076 + 0.1344	= 0.2704m	
		55 - Fr + Ve = 0.162 + 0.0750	= 0.2445m	
· UTILITIES REQUIRED		1. 40	the second se	
- a selective supply	elligte phase, 2000 90, 0010, 5-15 amp-	$E_{0} = \frac{n_{0}}{n_{0}} \pm \frac{v_{0}^{2}}{n_{0}} = 0.21 \pm 0.0583$	= 0-2483 m	
should be less		6= Ka + Va = 0-23 + 0.015	ORUEM	
it water supply this		13 43		
Will Floor duan regul		Q = Ark = 0.074 × 0.07 =	to be a set	
del Floor alla registre	d = 1.5m × o.tem			
		$V_1 = \frac{0}{a_1} = \frac{4.49 \pm 10^{-4}}{4.000} = 0.03$	BEC ms-	
· EXPERIMENTAL PRO		22 OFC # 10 -		
A STRETING PROCEDU		$\sqrt{2} = \frac{1}{20} = \frac{1000 \pm 1000}{100000} = 0.00$	u e me	
	und that all onfoff cuitcher given on	V3 = 0 = 4454 × 10-4 = 1.432	L1 me +	
the part area				
Figure the second		44 + 10 = 4,427 × 10-4 = 4,25	and men	





$\frac{\left(\frac{1}{12} + \frac{1}{2}\right)}{\left(\frac{1}{12} + \frac{1}{2}\right)} = \frac{1}{12} + \frac{1}{2} + \frac$
$ \begin{array}{c} z_{1} & \operatorname{interflight}_{1} & \operatorname{interflight}_{2} & \operatorname{interflight}$



Itgalpur, Rajanakunte, Yelahanka, Bengaluru – 560064



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	SI.	ID No.	Student Name	Attendance
	No.			
	1	20211PET0001	Mohamed Saadullah S	Р
	2	20211PET0002	Roshan T	Р
	3	20211PET0003	Syed Luqman J	Р
	4	20211PET0004	Belim Moh Saad Mohammedbhai	Р
	5	20211PET0005	Mohammad Suhail	Р
Attendance	6	20211PET0008	Vankala Jai Sphoorthi	Р
sheet	7	20211PET0009	Afeez	Р
	8	20211PET0010	Hithesh T	Р
	9	20211PET0011	Ganuga Roshan	Р
	10	20211PET0012	Mohamed Naif Nihad Ali	Р
	11	20211PET0013	Deepak Jadhav	P
	12	20211PET0014	Darshan D P	Counter States
	13	20211PET0015	Mohammad Yasir Byakod	
	14	20211PET0016	Asma Thasnim	P



T		1	
1	15 20211PET0017	Ibrahim Nawaz M	P
1	16 20211PET0018	Sandeep lyagar	Р
1	7 20211PET0019	Kiran Ekiran	Р
1	18 20211PET0020	Yashwanth Gowda M	Р
1	19 20211PET0021	Mayur P	Р
2	20 20211PET0022	Yashwanth S	Р
2	21 20211PET0023	Mohammed Shabaz Khalander D	Р
2	22 20211PET0024	Bollama Reddy Himavenkata Mankantha	Р
2	23 20211PET0025	Fazil Shareef H A	Р
2	24 20211PET0026	Patel Mohammed Adnan Mohammed Gous	Р
2	25 20211PET0027	Syed Usman	Р
2	26 20211PET0028	Zoya Falak	Р
2	27 20201PET0027	Yarramsetti Chaitanya Sri	Р
2	28 20191PET0050	Shaik Gouspeer Vali	Р
2	29 20221LPE0001	Shaik Tabish Riyazahmed	Р

funal

Signature of Instructor In charge Dr. Abhinav Kumar Assistant Professor Department of Petroleum Engineering

Dr. Suman Paul Professor and Head Department of Petroleum Engineering



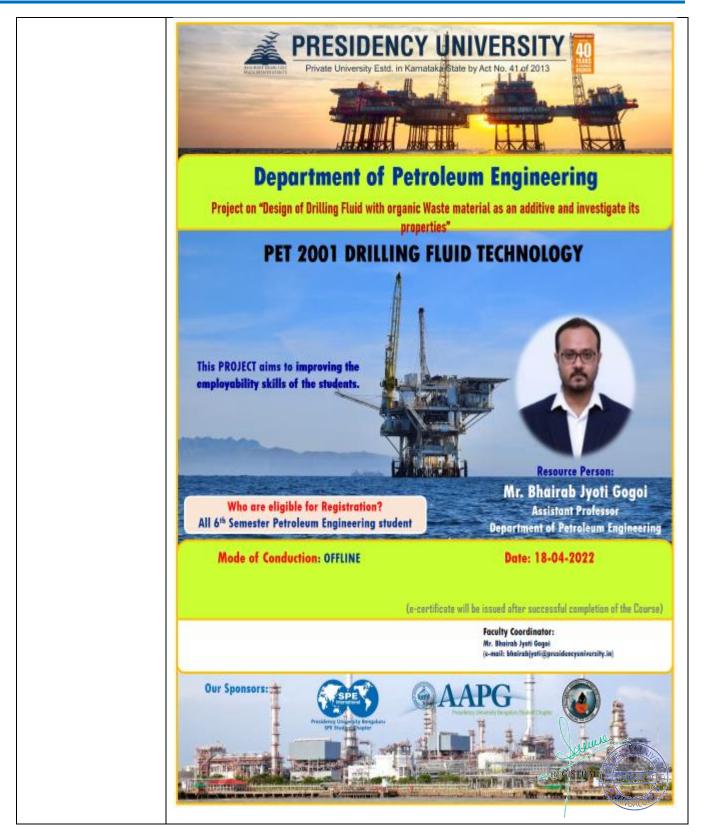


Event No.:	BJG14	Date:	21-06-2022 (1 Day)				
Event Category:	Technical	Event Type:	Project				
Mode of Event:	Offline	No. of Participant(s):	19				
Event Category:	Experiential Learning						
Event Coordinator:	Mr Bhairab Jyoti Gogoi Assistant Professor, Department of Petroleum Engineering						
Event Title:	Design of Drilling Fluid with organic Waste material as an additive and investigate its properties						
Resource Person:	Mr Bhairab Jyoti Gogoi Assistant Professor, Department of Petroleum Engineering						
Event Objective:	knowledge on Well Design a	ents is to provide an opportur nd Construction to solve prob ent to develop- SKILL and EM					
Event Photo(s):							

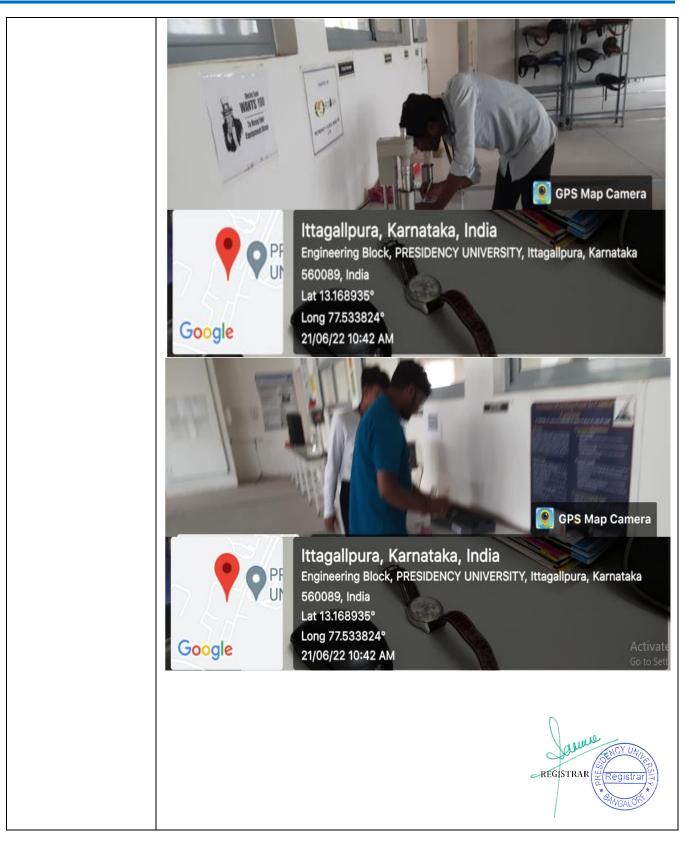




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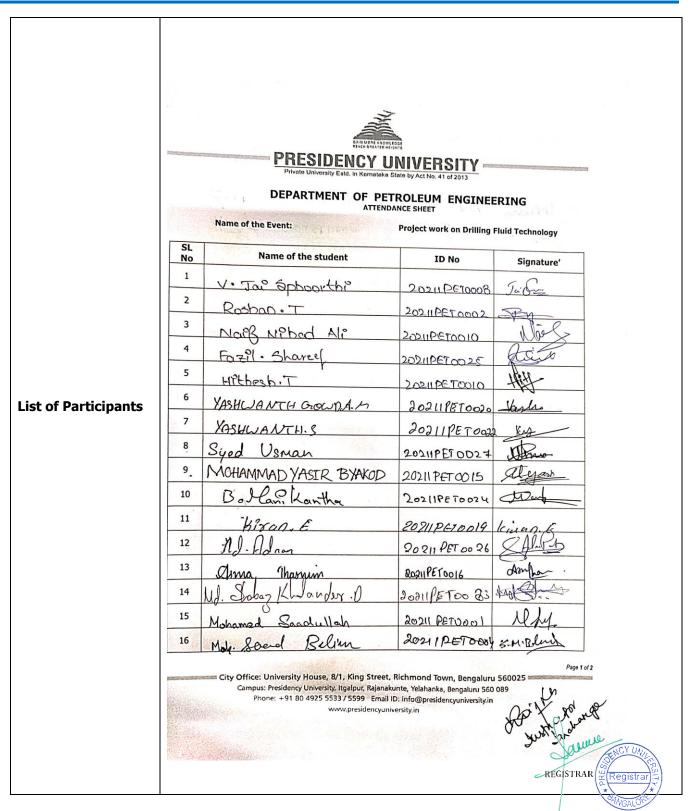








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Presidency University, Bengaluru Itgalpur, Rajanakunte, Yelahanka, Bengaluru – 560064

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26 Mr. Bhairab Jyoti Gogoi Instructor In charge		
Mr. Bhairab Jyoti Gogoi Instructor In charge		7
	Mr. Bhairab Jyoti Go Instructor In cha	Gogoi
	Pag City Office: University House, 8/1, King Street, Richmond Town, Bengaluru 560025	Page 2 of 2



Presidency University, Bengaluru Itgalpur, Rajanakunte, Yelahanka, Bengaluru – 560064

	RAIN MORE KNOWLEGGE REACH DREATER HEIGHTS BANK MORE KNOWLEGGE BANK MORE KN
	Project Report on PET 2001 Drilling Fluid Technology Section: 2PET-1 Submitted to: Mr. Bhairab Jyoti Gogoi (Instructor In-Charge) Date of Submission: 2)-6-22
	Project Title Banana peel as a Dulling fluid Additive : An exprimental investigation of a wales toased Duilling fluid.
	Sample material Bomana peel
Student's report	Objective of the Measuring Plastic Viscosity, Apparent viscosity, yild point, lubricity, ph., Filter press of the drilling fluid with additives as banana peel and Starch.
	Chemicals Used 5-2. Bentorite, Fly Ash, CaCO3, NaOH, Starch
	Equipments PH meter, EP lubricity Tester, LPLT Filter press.
	Sample composition S-2: 800 ml Water + 64 gm Bentonite + 24 gm Fly Ash +5 gm Ca (Oz + 26 gm Benana piel S-2: 800 ml Water + 64 gm Bentonite + 24 gm Fly Ash +5 gm Ca (Oz + 16 gm Starch.

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	Han	d RPM	Crank	: V				dings;	1	
	Sample Somple	2600	RPM \$300	PV	AV	YP	10 sec	trength 10 min		
	1	18	('	7	9	43	20	25		
	Gomple 2	98	50	48	44	2.	126	127	19	
	Samp Plastic	<u>oli :</u> c vij	I cosity	************		I	1	cP)	100	
		lep	600P = 18- = 7 c Viscou	P	R	Q		CP) Reading	9	
Observations			= 6 <u>00</u> = 1. = 9	RPN	Read					
all a second and a second a s	yeis Yf	nd i no = a	Point.	(Y.P)	in	16%	olt <sup>2</sup>			
	y.,	t	50 - 43	7	42	- r	V			
		* <b>4</b>			•			D		
								REGIS	TRAR	- COLTEN



Department of Petroleum Engineering Presidency University, Bengaluru GAIN MORE KNOWLEDG REACH GREATER HEIGHT Itgalpur, Rajanakunte, Yelahanka, Bengaluru - 560064 Sample - 2 : PV = Sep = 600 RPM Reading - 300 RPM Reading : 98-60 Mg= 48 cf AV = Ma = 600 R PM Reading = 98 Ma = 44 cP YP = 300 RPM Reading - PV = 50-48 Y.P = 2 15 00/12 LPLT Filter Press Reading 1 PH readings: le Amount of Fitze Mud cake thickness pH ( 2/32") 7.5 min 15 mins 30 mins 12.31 38/32 = 1 82 132.8188 12.39 2/32 2 28 40 600 correction EP lubricity readings: Cousiection Factor (cr) A Torque Avg. To sque seading - 34 46 Sample 7: 34 CF LC reading 0.739 0.339 2 :46 = 0.739 1-214 0-339 28 Sample 2: 34 = 1.214 2 Lubricity Coefficient (CC): Gample 1: 41xCF= 0: 839 Sample 2: 28×4F = 0.339 Page 3 of 4 June REGISTRAR Regist



Department of Petroleum Engineering Presidency University, Bengaluru Itgalpur, Rajanakunte, Yelahanka, Bengaluru - 560064 SAIN MORE KNOWLED There is a high difference in PV, AV and VP. The plastic viscosity and Aparent viscosity of Sample - 2 is very high than that as Sample -1. The yeild Point of Samp-I is very high from sample - 2. -Sample -2 has high get strength than sample -1 - PH of bath the samples are nearly same 0 Sample . 1 : 12.31 Sample 2: 12.39 i.e. bath sample contributes to make basic meds -Amount of Filtrale loss in sample I is very high-then sample -2 **Results** and discussion - Mud lake thickness of Sample 2 was very high than sample - 2. - Sample - I mud cake was very thick 38/32". · Torque readings, was almost double of Sample - 2. · Correction factor of sample - 2 was highly than Sample - 7 but ubricity coefficient were exactly equal. 0 Nohammed. Shabaz Khalander. D (2021185 TO023) Will Mohamed Saadullah. S (2021(PETOOO)) N/14. Moh. Saad Belin (2021/PETODO4) S.M.Belin 21/06/22 Name and Signature with date of the students Asma Thomim (20211 PETO016) Asmalhanin 21/06/22 Hotrommed Alnan Patel (2021)PETOD26) Page 4 of 4 anne STRAR



REACH GREATER HEIGHTS	Project Report on PET 2001 Drilling Fluid Technology Section: 2PET-1 Submitted to: Mr. Bhairab Jyoti Gogoi (Instructor In-Charge)
	Date of Submission: $2 -6-22$
Project Title	Preparation of a Drilling Fluid Using Cocon ut Husk as a polymer.
Sample material	Coconut Husk.
Objective of the project	DTO get the compartitive results of dif Bluids mode by using starch and coconut hosk as ad polymens, 2) To reduce the waste (managment).
Chemicals Used	Starch, Bentonite, NaOH, Calos, Fly
Equipments used	Hand Crank Viscometer, EP Lubricity To API LPLT Filter Press.
Sample composition	1.1800ul water + 8g Starch + 40g Benton, te te 16g (cl03. + 16g Fly Ash 12) 800ml water. + 8g Goront Hosk + 400g Bentonil 8gNaoH + 16g carbs + 16g Fly Ash.
AND	D



Presidency University, Bengaluru Itgalpur, Rajanakunte, Yelahanka, Bengaluru – 560064

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	1 Ha	nd Cr	ank	Viscome	ter:				7
	tu	RP	im.	Plastic	Apparent			sengtli o sa, A.J	Ī
	Equipment	\$600	\$300	MP/PV	Ma (AV) CP	and the second second second	8	IOMÍN	
	irank veter	30	18	12	15	6	40	45	9
	Hant Grank	14	8	6	Ŧ	2	17	19	
Observation	MP = $0600 - 0300$ , at stairch a polymer $\rightarrow 30 - 18 = 12 cP$ at locanut Hosk polymer $\rightarrow 14 - 8 = 6cP$ Ma = $0600$ at starch polymer $\rightarrow 30/2 = 15cP$ at starch polymer $\rightarrow 30/2 = 7cP$ NP = $0300 - MP$ , at starch polymer $\rightarrow 18 - 12 = 6cP$ at starch polymer $\rightarrow 18 - 12 = 6cP$ at starch polymer $\rightarrow 18 - 6 = 2cP$ (2) EP Lubrithy Tester 3								
Merce and	<u>SL-N</u> 1.	SL-NO Torque reading Bor Drilling Fluid. 1. 50 (Sample 1-Starch)							
and the second second	2.					1 ple 2 - Co			
								Page 2 of 4	



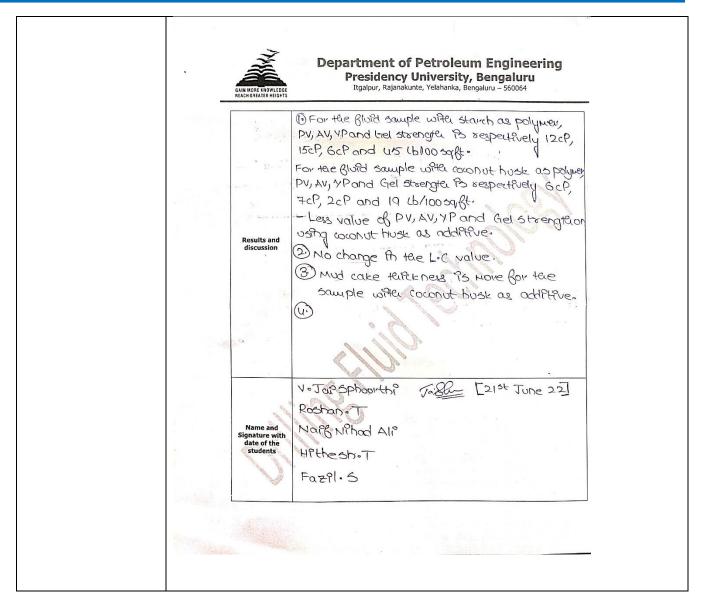


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Department of Petroleum Engineering Presidency University, Bengaluru AIN MORE KNOWLEDGE Itgalpur, Rajanakunte, Yelahanka, Bengaluru - 560064 Correction Factor (CF) = 34/aug. reading. - Siphan lall = 34/50 = 0.75 Lubritity coefficient (LC) = Meter reading x (CF) 100  $= \frac{50 \times 0.75}{100} = 0.375$ Lubricity wefficient of the given sample is, 0.375 3) API LPLT Filter Press: AMOUNT OF AMOUNT OR Mud Cake 51.No Filtsate Filtsate THREDESS (15 MPD) (BOMPD) (1/32") 2/32 (Starch) 1. 7.6 5 96 19/32 (autor) 2. 141 PH of boter the samples, Sample 1 Sample 2. PH 12.45 12-52.











Itgalpur, Rajanakunte, Yelahanka, Bengaluru - 560064

Event Category:	Experiential learning	Date:	01-12-2022 (1 Day)
Event Category:	Technical	Event Type:	Laboratory
Mode of Event:	Online/Offline	No. of Participant(s):	30
Year	2 <sup>nd</sup> Year	Semester:	III
Event Organizer	Department of Petroleum Engineering, Presidency University		
Name of the faculty	Dr. Sidharth Gautam Assistant Professor, Department of Petroleum Engineering		

#### **Article description**

The characteristics of lubricants may be evaluated based on some of their properties, such as: density, viscosity, vapor pressure, freezing point, acid number, etc. In this experiential learning session, the participants were trained to operate drop cone penetrometer apparatus through which consistency of a lubricant/grease sample can be determined.

Consistency is resistance to deformation by an applied force. The measure of consistency is penetration. Penetration is defined as the depth of penetration (expressed in 10th of millimeters) of a metallic cone with standardized shape and dimension into a solid grease sample for a period of 5 seconds. Penetration tests (ASTM - D217) are performed on petroleum products to determine consistency and shear stability (lubricating greases) for design, quality control and identification purposes. A standard cone or needle is released from a penetrometer and allowed to drop freely into the sample for 5 seconds (or a different specified interval) at constant temperature. A penetration of 100 would represent a solid grease while one of 450 represents semisolid. The NLGI has established consistency number or grade number, ranging from 000 to 6, corresponding to specified ranges of penetration number.





Sidearth Gautam

**Faculty Incharge** Dr. Sidharth Gautam Assistant Professor Department of Petroleum Engineering

