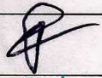

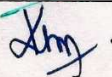
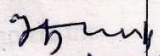
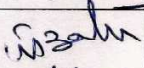

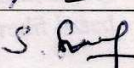
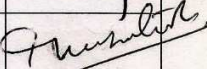
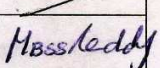
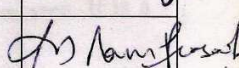


K L University
Department of Mechanical Engineering

Particulars of the Meeting conducted

Type of Meeting	Internal BOS
Department Conducting the meeting	Mechanical Engineering
Date of Meeting	6-6-2014
Time of Meeting	10:00am
Venue of Meeting	HOD room, ME Department

Members Present

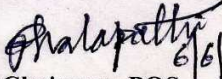
S.N.	Name of the Person	Institution	Department of the Person	Designation of the person	Position of the person in the meeting	Signature
1	Dr.P.V.Chalapathi	KL University	Mechanical Engineering	HOD	Chairman	
2	Dr. K.Rama Krishna	KL University	Mechanical Engineering	Dean-Academics	Internal member	
3	Dr. K.L.Narayana	KL University	Mechanical Engineering	Dean- R&D	Internal member	
4	Dr.Y.V.Hanumantha Rao	KL University	Mechanical Engineering	Professor	Internal member	
5	Dr. K.J.Babu	KL University	Mechanical Engineering	Professor	Internal member	
6	Dr. B.Nageswara Rao	KL University	Mechanical Engineering	Professor	Internal member	
7	Dr. S.S.Rao	KL University	Mechanical Engineering	Professor	Internal member	
8	Dr. T.Venkateswara Rao	KL University	Mechanical Engineering	Professor	Internal member	
9	Sri M.B.S.Sreekara Reddy	KL University	Mechanical Engineering	Associate Professor	Internal member	
10	Sri A.V.S.Ramprasad	KL University	Mechanical Engineering	Assistant Professor	Internal member	

Agenda

1. To suggest recommendations for commencing 4year B.Tech. program in Petroleum Engineering.
2. Eligibility criteria to join B.Tech. in Petroleum Engineering.

Resolutions

1. It has been resolved to recommend the Regulations, Course structure and credits, for the B.Tech. program in Petroleum Engineering to commence from the academic year 2014-15.
2. Resolved to recommend the eligibility criteria as 10+2 or equivalent with Physics, Chemistry and Mathematics.


6/6/14
Chairman-BOS

Professor & Head
Dept. of Mechanical Engineering
K.L. UNIVERSITY
Jadcherla-522 502, Andhra Pradesh

DEPARTMENT OF PETROLEUM ENGINEERING K L UNIVERSITY Green fields, Vaddeswaram, Guntur																		
MAPPING OF COURSES WITH PROGRAM OUTCOMES (2014 Regulations)																		
S NO	Course Code	Course Title	Course Category	L-T-P	Credits	Pre-Req	Program Outcome										Course Type	Rationale / objective of the course
							a	b	c	d	e	f	g	h	i	j		
1	13HS101	English		2-0-2	3	Nil	1			2	2						Newly Introduced Course	Aims at developing the skill in Communication to enhance opportunities in employability
2	13HS102	Language And Reasoning Skills	Humanities & Social Sciences	2-0-2	3	Nil				2	2						Newly Introduced Course	Aims at developing the significance of Human Values in Society
3	11BS105	Ecology And Environment		2-0-0	2	Nil					1	1	1				Newly Introduced Course	Aims at developing the skill in Communication to enhance opportunities in employability
4	13HS104	Human Values		2-0-0	2	Nil				2							Newly Introduced Course	Aims at developing the significance of Human Values in Society
5	13BS101	Linear Algebra And Multivariate Calculus		3-0-2	4	Nil	2	2		2							Newly Introduced Course	Aims at developing basic knowledge in Multi variate calculus
6	13BS102	Differential Equations		3-1-0	4	Nil	2	2									Newly Introduced Course	Aims at developing basic knowledge in solving Differential Equations
7	13BS103	Engineering Physics	Basic Sciences	3-0-2	4	Nil	1										Newly Introduced Course	Aims at developing basic knowledge in physical principles applied in engineering
8	11BS104	Engineering Chemistry		3-0-2	4	Nil	2	2									Newly Introduced Course	Aims at developing basic knowledge in Chemistry applied in engineering
9	13BS201	Mathematical Methods		3-0-0	3	13BS101 13BS102	2										Newly Introduced Course	Aims at developing basic knowledge in solving complex problems
10	13 BS 202	Complex Variables And Discrete Mathematics		3-0-0	3	13BS101 13BS102	2										Newly Introduced Course	Aims at developing basic knowledge in solving complex variables
11	13ES103	Engineering Materials	Engineering Sciences	3-0-0	3	Nil	1										Newly Introduced Course	Aims at developing basic knowledge in materials selection
12	13ES102	Measurements		3-0-2	4	Nil	2	2									Newly Introduced Course	Aims at developing skill in Measuring instruments related to engineering

13	11ES104	Engineering Graphics With CAD	0-0-4	2	Nil														Newly Introduced Course	Aims at developing the skill in Engineering graphics
14	13ES105	Workshop Practice	0-0-4	2	Nil														Newly Introduced Course	Aims at developing the skill in Engineering
15	13ES101	Problem Solving Through Programming	3-0-2	4	Nil	2													Newly Introduced Course	Aims at developing skills in solving problems through programming
16	13ES106	Engineering Mechanics	3-0-2	4	Nil	2													Newly Introduced Course	Aims at developing the Skill in Mechanics through laboratory
17	13ES201	Thermodynamics	3-0-0	3	13ES103	2													Newly Introduced Course	Aims at developing Skill in Thermodynamics properties of reservoir fluids
18	13ES202	Object Oriented Programming	3-0-2	4	13ES101	2													Newly Introduced Course	Aims at developing Skill in Thermodynamics properties of reservoir fluids
19	13ES203	Network Theory	3-1-0	4	13ES101	2	2												Newly Introduced Course	Aims at developing the Skill in Electrical and Electronics through laboratory
20	13ES204	Data Structures	3-0-2	4	13ES101	2													Newly Introduced Course	Aims at developing skills in solving problems through programming
21	13ES205	Signal Processing	3-0-2	4	13ES102														Newly Introduced Course	Aims at developing the Skill in signal analysis through laboratory
22	14PE201	Material And Energy Flow Computation	3-0-0	3	Nil														Newly Introduced Course	Develops the basic knowledge of process calculations
23	14PE202	Chemical Reaction Engineering	3-0-2	4	Nil	1													Newly Introduced Course	Develops the basic knowledge on chemical reactions
24	14PE203	Introduction To Petroleum Engineering	3-0-0	3	Nil														Newly Introduced Course	Aims to develop the significance and roles of petroleum engineers
25	13CE205	Surveying	3-0-2	4	Nil														Newly Introduced Course	Develops the basic knowledge of various surveying methods
26	14PE204	Momentum Transfer	2-2-2	4	Nil														Newly Introduced Course	Develops the basic knowledge of fluid flow

27	14PE205	Geology For Petroleum Engineers	4	Nil	1	2													Newly Introduced Course	Develops the knowledge on Earth's subsurface lithologies
28	14PE206	Drilling And Well Completion Techniques	4	Nil	1	2		3											Newly Introduced Course	Aims to design wellbore profile
29	14PE207	Petroleum Refining Process And Testing	4	Nil		2		2											Newly Introduced Course	Develops the basic knowledge of refining processes
30	14PE301	Petroleum Exploration Methods	3	14PE205				2											Newly Introduced Course	Aim to understand the application of various exploration methods
31	14PE302	Reservoir Engineering	4	14PE205	2	2		2											Newly Introduced Course	Aims to estimate the hydrocarbon reserves
32	14PE303	Process Heat Transfer	4	Nil	1	2		2											Newly Introduced Course	Develops the significance of Heat transfer methods
33	14PE304	Natural Gas Engineering & Processing	3	Nil	1	1		2											Newly Introduced Course	Develops the basic knowledge of gasses processing and handling
34	14PE305	Petroleum Formation Evaluation	3	14PE301				2											Newly Introduced Course	Aims to evaluate the Hydrocarbon formations with logging techniques
35	14PE306	Pipeline Engineering & Transportation Of Oil & Gas	3	Nil	1	1		2											Newly Introduced Course	Aims to develop knowledge of handling Oil & Gases
36	14PE401	Petroleum Production Engineering	3	14PE302	1			2											Newly Introduced Course	Develops the basic knowledge of surface & subsurface equipment facilities
37	14PE307	Environmental Hazardous And Safety Management	3	Nil		1				1									Newly Introduced Course	Develops the knowledge of various safety measures to follow in Industry
38	14PE402	Oil & Gas Well Testing	4	14PE302	1			2											Newly Introduced Course	Develops the basic knowledge on payzone and pressure profiles
39	13TP401	Term Paper	2	Nil				2											Newly Introduced Course	Aims at developing skill by doing a project
40	13MP401	Minor Project	2	Nil	1	2	2	2											Newly Introduced Course	Aims at developing skill by doing a project

41	13PW401	Major Project	0-0-24	12	Nil	1	3	2	2	2	Newly Introduced Course	Aims at developing skill by doing a project
42	13PS401	Practice School	0-0-24		Nil	1	3	2	2	2	Newly Introduced Course	Aims at developing skill by doing a project/internship in a industry
43	13IS201	Industrial Training	0-0-4	2	Nil	1	2	2	2	2	Newly Introduced Course	Aims at developing skill by undergoing to Industrial internship
44	14PE331	Well Intervention & Stimulation Techniques	3-0-0		14PE206			1	2		Newly Introduced Course	Develops the basic knowledge on payzone and pressure profiles
45	14PE332	Reservoir Modeling & Simulation	3-0-0		14PE302			1	2	2	Newly Introduced Course	Aims to develop models for reservoir applications
46	14PE333	Enhanced Oil Recovery	3-0-0		14PE302			1	2		Newly Introduced Course	Aims to understand the various methods to recover hydrocarbons
47	14PE334	Coal Bed Methane, Gas Hydrates & Shale Gas	3-0-0		Nil			1	2		Newly Introduced Course	Develops the basic knowledge of various unconventional energy resources
48	14PE335	Directional Drilling & Offshore Structures	3-0-0	15	14PE206	1		1	2		Newly Introduced Course	Develops the basic knowledge of drilling operations in offshore
49	14PE336	Petroleum Production System Design	3-0-0		Nil	2			2		Newly Introduced Course	Develops knowledge of surface & subsurface equipment facilities
50	14PE337	Mass Transfer	3-0-0		Nil	2			2		Newly Introduced Course	Develops the significance of Heat and Mass transfer methods
51	14PE341	Petrochemical Processes	3-0-0		Nil	1			2		Newly Introduced Course	Develops the basic knowledge of petroleum products
52	13AC201	Employability Skills	1-0-2	Nil	Nil		1				Newly Introduced Course	Aims in enhancing the skills requires for Employability
53	13AC301	Advanced Employability Skills	1-0-2	Nil	Nil		1		2		Newly Introduced Course	Aims in enhancing the skills requires for Employability
54	13AC203	Sports/Games/Yoga	0-0-2	Nil	Nil		1				Newly Introduced Course	Aims at developing the interpersonal skills

55	13AC204	NCC/NSS/NSO/CEA									Newly Introduced Course	Aims at developing the interpersonal skills		
	56	13AC302	Quantitative Aptitude & Reasoning	0-0-2	Nil	Nil	1	2	2	2			2	Newly Introduced Course
		Management Elective ... 3 CR												
		Open Electives (3 X 3 CR) 9 CR												
		Total		175			2	2	2	1	2	2	2	2