

K L UNIVERSITY										
DEPARTMENT OF PETROLEUM ENGINEERING										
Agenda Item No.	2016-17				Agenda Item	BoS Resolution	BoS Proposals for 2017-18			
	Course Code	Course Title	LTP Structure	Credits			Course Title	LTP Structure	Credits	
Humanities and social sciences										
10	15 PE 3216	Environment Hazardous & Safety Management	3-0-0	3	To Transfer the course to Humanities Category to free the Professional Core category with no change in syllabus	The course can be swapped from professional core category to Humanities as per the requirement and the name may be changed to Health, Safety & Environment in Petroleum Industry to retain the course identity	Health, Safety & Environment in Petroleum Industry	3-0-0	3	
Engineering Sciences										
3	15 ME 1003	Thermodynamics	2-2-2	4	To modify the course with addition of chemical engineering thermodynamics concepts	The course can be modified with addition of solution thermodynamics topics and the name has been changed to Thermodynamics of Reservoir Fluids with the syllabus presented to BoS committee	Thermodynamics of Reservoir Fluids	3-0-0	3	
2,19	15 GN 1004	Introduction to Engineering	2-0-2	3	To introduce an introductory course in first year of curriculum	The course can be introduced covering the introductory topics of Geology & Geophysics, Drilling & Production operations, Reservoir Engineering and Petroleum Processing operations as presented to the BoS Committee	Introduction to Petroleum Engineering	3-0-0	3	
	15 PE 2101	Momentum Transfer	2-2-2	4	No Change	No Change	Momentum Transfer	3-1-2	4	
	15 PE 2102	Material and energy flow Computation	3-0-2	4	To provide the flexibility of removing the course if required	The course may be merged into Introduction to Petroleum Engineering course if it needs to be removed				
4					To introduce an introductory course in Electrical & Electronics Field	The course may be added to the curriculum if required with the syllabus presented to the BoS committee	Basics of Electrical & Electronics Engineering	2-2-2	4	
Professional Core + Professional Elective										
	15 PE 2103	Geology for Petroleum Engineers	3-0-2	4	No Change	The syllabus may be modified with the syllabus suggested by BoS committee and the course name may be changed to Petroleum Geology	Petroleum Geology	3-0-2	4	
21	15 CE 2105	Surveying	3-0-2	4	No Change	The course may be modified by addition of basic components of geophysical surveying from Petroleum Exploration Methods course and the name can be changed to Surveying & Petro Physical Methods	Surveying and Petroleum Geophysics	3-1-2	4	
5,13,20	15 PE 2104	Drilling Engineering	2-2-2	4	To Divide the course into two parts	The Drilling Engineering course may be split into Drilling Engineering-I & Drilling Engineering-II courses with proper distribution of the syllabus as suggested by BoS Committee	Drilling Engineering-I	3-0-0	3	
							Drilling Engineering-II	3-1-2	4	
17,21	15 PE 2105	Petroleum Exploration Methods	3-0-0	3	To modify the course with decrease in syllabus to suit the undergraduate level of education	The course can be modified by moving the gravity and magnetic surveying topics to Surveying & Petro Physical Methods course	Petroleum Exploration Methods	3-0-0	3	

5,13	15 PE 2206	Reservoir Engineering	2-2-2	4	To modify the course with decrease in syllabus to suit the undergraduate level of education	The fluid properties topics of the course may be moved to Thermodynamics of Reservoir Fluids course and management oriented topics to Asset management course	Petroleum Reservoir Engineering	3-1-2	4
	15 PE 2207	Well Completions And Testing	3-2-0	4	To Remove of completions syllabus	The well equipment and completion topic can be removed with the course name changed to Oil & Gas well Testing	Oil and Gas Well Testing	3-1-0	3
	15 PE 2208	Heat and Mass Transfer	2-2-2	4	To Split the course into Heat Transfer and Mass Transfer Courses	The course can be split into Heat Transfer and Mass Transfer with incorporation of syllabus presented to BoS committee	Heat Transfer	3-1-2	4
							Mass Transfer	3-1-2	4
	15 PE 3109	Petroleum Production Engineering-1	3-2-0	4	No Change	The Syllabus should be limited to sub-surface operations	Petroleum Production Engineering-I	3-0-0	3
6,14	15 PE 3110	Natural Gas Engineering & Processing	3-0-0	3	To remove the course as most of the topics are covered in Production Operations courses	The course may be swapped to electives with addition of advanced topics to suit gas phase hydrocarbon processing operations			
	15 PE 3111	Petroleum Formation Evaluation	3-0-0	3	No Change	No Change	Petroleum Formation Evaluation	3-0-0	3
6,14	15 PE 3112	Oil and gas transportation and storage	3-2-0	4	To remove the course as most of the topics are covered in Production Operations-II course	The course can be removed			
1,11	15 PE 3113	Petroleum Refining And Product Testing	3-2-0	4	To merge the course with Petrochemical Technology course to allow addition of upstream GATE oriented courses	The course can be modified with addition of petrochemical topics with the name changed to Petroleum Refining and Petro-Chemical Technology	Petroleum Refining and Petro-Chemical Technology	3-0-2	4
15	15 PE 3214	Petroleum Production Engineering-2	3-0-0	3	No Change	Limit the syllabus to surface operations	Petroleum Production Engineering-II	3-0-2	4
11	15 PE 3125	Petrochemical Technology	3-0-2	4	To remove the as the syllabus is merged into Refining course	The course can be removed as the course contents are merged with Petroleum Refining and Petrochemical Technology			
	15 PE 3216	Environment Hazardous & Safety Management	3-0-0	3	No Change	The course has been adjusted under Humanity Sciences category of curriculum			
	15 PE 3217	Petroleum Economics and Asset Management	3-0-0	3	No Change	The name of the course may be changed to Petroleum Asset Management	Petroleum Asset Management	3-0-0	3
Professional Elective courses									
	15 PE 3251	Enhanced Oil Recovery	3-0-0	3	No Change	No Change	Enhanced Oil Recovery	3-0-0	3
10	15 PE 3252	Refining Process, Modelling & Simulation	3-0-0	3	No Change	The course may be removed and add a hydrocarbon processing equipment design syllabus based course			
1,9,15	15 PE 4153	Reservoir Modelling & Simulation	3-0-0	3	To swap to Professional Core category	Laboratory component may be added with same syllabus and moved to professional core category as per agenda item	Petroleum Reservoir Modelling and Simulation	3-1-2	4
	15 PE 4154	CO2 Capture And Storage	3-0-0	3	No Change	The course name is changed to CO2 sequestration as suggested by BoS committee	CO ₂ Sequestration	3-0-0	3

	15 PE 4155	Unconventional Resources	3-0-0	3	No Change	No Change	Unconventional Energy Resources	3-0-0	3
8,15	15 PE 4156	Offshore Drilling And Production Operations	3-0-0	3	To swap to Professional Core category	The course can be moved to professional core category with same syllabus as per agenda item	Offshore Petroleum Operations	3-0-0	3
	15 PE 4157	Geothermal Reservoir Engineering	3-0-0	3	No Change	No Change	Geothermal Reservoir Engineering	3-0-0	3
12,16	15 PE 4158	Gas to liquid Technologies	3-0-0	3	No Change	The Course may be removed to accommodate upstream based electives			
10	15 PE 4159	Process Equipment Design	3-0-0	3	No Change	Modify the syllabus and the course name to Oil and Gas Processing Plant Design as suggested by BoS committee in Refining simulation based course	Oil and Gas Processing Plant Design	3-0-0	3
12	15 PE 4160	Multiphase flows	3-0-0	3	To modify the syllabus to cater the flow through porous media	The course can be modified with flow through porous media topics with the name changed to Flow and Transport through Porous Medium	Flow and Transport through Porous Medium	3-0-0	3
10	15 PE 4161	LNG Technologies	3-0-0	3	No Change	The Course may be merged with Natural Gas Processing course			
18	15 PE 4162	Completion and work over fluids	3-0-0	3	No Change	The completions topics are removed, added with stimulation jobs and fishing operations and the course name is changed to work over and stimulation operations as suggested by BoS committee	Drilling Fluids and Cementing Technology	3-0-0	3
15	15 PE 4163	Artificial lift Techniques	3-0-0	3	To swap to Professional Core category	The course can be swapped to professional core with slight modification in syllabus with the name changed to Petroleum Production Equipment Design	Petroleum Production Equipment Design	3-1-0	4
12,16						Add the course with the syllabus supplied to suit the production problems of upstream hydrocarbon sector	Work over and Stimulation Operations	3-0-0	3
12,16						Add the course with syllabus mentioned to cater the marketing aspects of hydrocarbon sector	Oil and Gas Marketing and Resource Management	3-0-0	3
12,16						Add the course with the syllabus from chemical Engineering courses	Transport Phenomenon	3-0-0	3
12,16						Add the course with syllabus mentioned to cater the economical and development aspects of hydrocarbon sector	Oil and Gas Field Development	3-0-0	3
12,16						Add the course	Fuel Technology	3-0-0	3
12,16						Add the course with syllabus related to oil & gas transport through pipelines and the design aspects of pipelines	Pipeline Engineering	3-0-0	3

BoS External Members

BoS Internal Members

BoS Chairman