



Dt: 16.02.2015

Minutes of Board of Studies Meeting

The following members were present for the board of studies meeting held on 16-02-2015 in department of Petroleum Engineering, School of Chemical Engineering at Vignan's Foundation for Science, Technology & Research University (Deemed to be University), Vadlamudi.

Members present are as follows

External Members:

1. Dr. G. Prabhakar, Professor & Head, Department of Chemical Engineering, S.V. University, Tirupati.
2. Sri R. Banerjee Babu, General Manager, Production, JOCIL, Dookiparru.
3. Dr. G. Muralidhar, Indian Institute of Petroleum, Dehradun.

Internal Members

1. Mr. P. Bangaraiyah, Head, School of Chemical Engineering, VFSTRU
2. Mr. P. Ashok Kumar, Associate Professor, School of Chemical Engineering, VFSTRU
3. Mr. P. Bapi Raju, Associate Professor, School of Chemical Engineering, VFSTRU

The following are the results of BoS meeting for B.Tech Petroleum Engineering:

1. Initiate a new B.Tech programme in Petroleum Engineering from the academic year 2015-2016 following existing regulation.
2. Propose the course structure (*Appendix I*) and syllabus for all four years of B.Tech programme in Petroleum Engineering.
3. Since the B.Tech curriculum is floated for the first time, all the courses are considered as new courses (*Appendix II*).
4. Feedback from Industry Personnel, Academicians etc are considered for designing the B.Tech curriculum in Petroleum Engineering.



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Department of Chemical Engineering

Signatures of the members: -

S. No	Name	Members	Signature
1.	Mr. P. Bhangariah	Chairman, BOS	
2.	Dr. G. Prabhakar	Invited member	
3.	Mr. R. Banergee Babu	Invited member	
4.	Dr. G. Murlidhar	Invited member	
5.	Mr. P. Bapi Raju	Internal Member	
6.	Mr. P. Ashok Kumar	Internal Member	



APPENDIX-I

I year I semester

Code	Course Title	L	T	P	C
1.	Engineering Mathematics-I	3	1	2	5
2.	Engineering Physics	3	-	2	4
3.	Technical English Communication	3	-	2	4
4.	Fundamentals of Computers and Internet	2	-	3	4
5.	Engineering Graphics	2	-	2	3
6.	Introduction to Engineering Products and Solution	3	-	2	4
7.	Professional English Test Course	-	-	2	1
	Total	16	1	15	25

I year II semester

Code	Course Title	L	T	P	C
1.	Engineering Mathematics-II	3	1	2	5
2.	Engineering Chemistry	3	-	2	4
3.	Introduction to Petroleum Operations	3	1	-	4
4.	Computer Programming	3	-	2	4
5.	Environmental Science and Engineering	2	-	-	2
6.	Workshop Practice	2	-	2	2
7.	Basics of Electrical and Electronics Engineering	3	-	2	4
	Total	19	2	10	26



II year I semester

Code	Course Title	L	T	P	C
1.	Probability & Statistics	3	1	-	4
2.	Compulsory Management Subject	3	-	-	3
3.	Soft Skills	-	-	2	1
4.	NSS/NCC/Yoga/Music/Dance	-	-	2	1
5.	CRT Related	-	-	2	1
Dept. Core Subjects and Labs					
6.	Chemical Process Calculations	3	1	-	4
7.	Momentum Transfer	3	-	2	4
8.	Petroleum Geology	3	-	2	4
9.	Petroleum Geophysics	3	1	-	4
	Total	18	3	10	26

II year II semester

Code	Course Title	L	T	P	C
1.	Professional Communication	-	-	2	1
2.	NSS/NCC/Yoga/Music/Dance	-	-	2	1
3.	CRT Related	-	-	2	1
Dept. Core Subjects and Labs					
4.	Petroleum Engineering Thermodynamics	3	1	-	4
5.	Process Heat Transfer	3	-	2	4
6.	Drilling Technology-I	3	-	2	4
7.	Drilling Fluids and Cementing Technology	3	-	2	4
Elective Streams					
8.	Stream 1 Elective - I	3	-	0	3
9.	Stream 2 Elective - I	3	-	0	3
	Total	18	1	12	25



III year I semester

Code	Course Title	L	T	P	C
1.	BEC Related	-	-	2	1
2.	NSS/NCC/Yoga/Music/Dance	-	-	2	1
3.	CRT Related	-	-	2	1
Dept. Core Subjects and Labs					
4.	Mass Transfer	3	-	2	4
5.	Well Logging	3	1	-	4
6.	Drilling Technology-II	3	-	2	4
7.	Petroleum Production Operations - I	3	1	-	4
Elective Streams					
8.	Stream 1 Elective - II	3	-	0	3
9.	Stream 2 Elective - II	3	-	0	3
Total		18	2	12	25

III year II semester

Code	Course Title	L	T	P	C
1.	Professional Ethics	2	-	-	2
2.	NSS/NCC/Yoga/Music/Dance	-	-	2	1
3.	CRT Related	-	-	2	1
Dept. Core Subjects and Labs					
4.	Petroleum Production Operations - II	3	1	-	4
5.	Reservoir Engineering	3	1	-	4
6.	Onshore and Offshore Engineering & Technology	3	1	-	4
7.	Petroleum Formation and Evaluation	3	1	-	4
Elective Streams					
8.	Stream 1 Elective - III	3	-	0	3
9.	Stream 2 Elective - III	3	-	0	3
Total		20	4	4	26



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IV year I semester

Code	Course Title	L	T	P	C
1.	Foreign Language	3	-	-	3
2.	NSS/NCC/Yoga/Music/Dance	-	-	2	1
3.	CRT Related	-	-	2	1
Dept. Core Subjects and Labs					
4.	Petroleum Transportation Engineering	3	-	2	4
5.	Petroleum Refining and Petrochemicals	3	1	-	4
6.	Natural Gas and Engineering	3	1	-	4
7.	Petroleum Engineering Equipment Design	3	-	2	4
Elective Streams					
8.	Stream 1 Elective - IV	3	-	0	3
9.	Stream 2 Elective-IV	3	-	0	3
Total		21	2	4	27

IV-year II semester

S.NO	Course Title	L	T	P	C
	Project Work/Internship	-	-	-	15
	Total	-	-	-	15


Chairman BoS



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APPENDIX - II

List of new courses in the R-13

B.Tech–Petroleum Engineering curriculum

S.No.	Course Name
1.	Fundamentals of Computer and Internet
2.	Engineering Mathematics-I
3.	Engineering Physics
4.	Technical English Communication
5.	Engineering Graphics
6.	Introduction to Engineering Products and Solutions
7.	Professional English Test Course
8.	Engineering Mathematics-II
9.	Engineering Chemistry
10.	Introduction to Petroleum Operations
11.	Computer Programming
12.	Environmental Science and Engineering
13.	Workshop Practice
14.	Basics of Electrical and Electronics Engineering
15.	Momentum Transfer
16.	Petroleum Geology
17.	Petroleum Geophysics
18.	Management Science
19.	Probability & Statistics
20.	Chemical Process Calculations
21.	Soft Skills

22.	Drilling Technology-I
23.	Professional Communications
24.	Petroleum Engineering Thermodynamics
25.	Process Heat Transfer
26.	Drilling Fluids and Cementing Technology
27.	Drilling Technology-II
28.	Mass Transfer
29.	Petroleum Production Operations-I
30.	Well Logging
31.	Professional Ethics
32.	Petroleum Production Operations-II
33.	Reservoir Engineering
34.	Onshore and Offshore Engineering Technology
35.	Petroleum Formation and Evolution
36.	Petroleum Transportation Engineering
37.	Petroleum Refining and Petrochemicals
38.	Natural Gas Engineering
39.	Petroleum Engineering Equipment Design
40.	Petrochemical Products
41.	Catalytic Conversion Process
42.	Crude oil and product evolution
43.	Quality, Health, Safety and Environment
44.	Geological Exploration
45.	Geophysical Exploration
46.	Geochemical Exploration
47.	Petroleum Economics
48.	Energy Management and Auditing
49.	Energy Integration
50.	Introduction to Non Renewable energy sources
51.	Mathematical Methods
52.	Process Modelling and Simulation
53.	Project work/ Internship