

ACTION TAKEN REPORT

Department of Petroleum & Energy Studies

(School of Engineering & Technology)

Academic Year 2021-2022 to 2017-2018



DIT UNIVERSITY

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Academic Year 2021-22

(Department of Petroleum & Energy Studies)

Recommendation 1

The detailed programme structures and syllabi of the courses to be offered in the upcoming 2021 batch of the B. Tech, Petroleum Engineering programme were discussed at length. After detailed deliberations, the following modifications were suggested:

- i. Dr. Nitesh advised to introduce a new course "Machine learning in drilling operation"
- ii. Dr. Vij has analyzed the course structure and asked not to leave the core petroleum engineering subjects in lieu of introduction of the new subjects related to oil and gas informatics.
- iii. Dr. Shivanjali, Dr. Mandal and Dr. Yadav has gone through the course structure and satisfied with the new courses introduced.

Action taken:	Responsibility	Target Date
As suggested by Dr. Nitesh, the drilling engineering component has been included in the course "Machine learning in petroleum operations". The suggestions have been implemented after approval of the Academic Council.	Chairman, BOS	April 2021



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Academic Year 2020-21

(Department of Petroleum & Energy Studies)

Recommendation 1

The program structure and course syllabi for B. Tech Petroleum Engineering have been discussed at great length for the 2020 Batch onwards offering. The Board recommended the suggested revisions for approval with the following additional suggestions:

- 1. The fluid rheology and fluid flow through porous media is important for petroleum engineers as it has numerous applications in oil and gas operations and shall be included in the course.
- 2. The engineering drawing and engineering graphics shall be taught to the students.
- 3. The electrical and electronics course shall be offered to the students.
- 4. Keeping in mind the industrial opportunities, IT sector courses with programming and automation shall also be included.
- 5. Workshop practice shall be made compulsory to all the students.
- 6. In SEC Basket, drilling related course shall also be included.
- 7. Course on advanced mathematics from petroleum engineering point of view should be there in the course structure.
- 8. In DE Basket, Courses on CBM and Gas hydrates shall be included apart from unconventional hydrocarbon.

Design based project can be included in the sixth semester where students can make hands – on projects/working models.

Action Taken	Responsibility	Target Date
The recommendation have been incorporated after the	Chairman, BOS	April 2020
approval of Academic Council.		

Recommendation 2

The proposal for offering of open elective courses from Department of Petroleum and Energy Studies has been recommended by the BOS experts.

Action Taken	Responsibility	Target Date
The open elective courses were introduced after approval of	Chairman, BOS	April 2020
the Academic Council.		



Established vide Uttarakhand Act No. 10 of 2013
Recognized by UGC under Section 2(f) of the UGC Act, 1956

Department

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Academic Year 2019-20 (Department of Petroleum & Energy Studies)

Recommendation 1	The deta	The detailed programme structures and syllabi of the courses to be			
	offered in the 3 rd and 4 th years of the B.Tech, Petroleum Engineering programme were discussed at length. After detailed deliberation				
		wing changes were sugg	C D	,	
	i.	The core course PE.		Transportation to	
	ii.	be shifted to the electi Addition of one Unit	on Corrosion in th	e course PE 303	
	iii.	 Oil & Gas Pipeline Introduction of an ele 		finery Utilities &	
		Energy Optimization	J		
	iv.	The elective course A (PE451) to be shifted		Reservoir Engg.	
Action Taken		(1 L+31) to be shifted	Responsibility	Target Date	
			lasponsioney	Tanger Bare	
The recommendations ha	ve been app	proved by the Academic	Chairman, BOS	April 2019	
Council and implemented	1.				
Recommendation 2	1969	rse structures and syllab			
		h.D. students of the De			
	experts:	rd also took note of the f	ollowing suggestioi	is of the external	
	i.	Introduction of an	elective course o	on Catalysis &	
		Separation Process			
	ii.	Introduction of an ele Simulation	ective course on Ac	ivance reservoir	
	iii.	Introduction of pre			
		Engineering, Reservo			
	Petrophysics/logging and production Engineering for non-petroleum Engineering scholars.			Engineering for	
Action Taken		non-petroteum Engine	Responsibility	Target Date	
			responsibility	Target Date	
The board took note of th			Chairman, BOS	April 2019	
decided to consider the s					
year 2019-20 after appro	val of Acade	emic council.			
Recommendation 3	The learn	ned members suggested	the following to b	ve considered in	
,		se of time:	.,		
	i.	Introduction of a basic	course on Detrole	num Entro in the	
	i. Introduction of a basic course on Petroleum Engg. in the first year of the B.Tech, Petroleum Engg. programme.				
	ii.	Introduction of a cours			
(50)		V			



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	in the 4 th seme programme Addition of at least one Dow Engg. programme as present	nstream course in th	
Action Taken		Responsibility	Target Date
The Board took note of resolved to discuss the san	the above suggestions and ne in its next meeting.	Chairman, BOS	April 2019



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Academic Year 2018-19

(Department of Petroleum & Energy Studies)

Recommendation 1	The chairman discussed with the Board on the course structures ans syllabi of the courses for PhD coursework. The Board was satisfied with the relevance of the course structure and syllabi and recommended the the same.				
Action Taken		Responsibility	Target Date		
The course structure was r the Academic Council for in	ecommended and approved by nplementation.	Chairman, BOS	Jan 2019		



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Academic Year 2017-18 (Department of Petroleum & Energy Studies)

Recommendation 1	The external expert suggested the modificulties.	cation of the sylla	abus of various
	 i. In the course of Carbon C content on lifecycle analysis of included. ii. In the course of Bio fuel contents on Torifaction in Bio 	f carbon sequestro and waste mana	ation should be
Action Taken		Responsibility	Target Date
The modifications v Academic Council.	vere included after the approval from	Course co- ordinator	Jan, 2017
Recommendation 2	In the course of HSE for petroleum Environment Health Safety & Occ Operational Risk & Mechanical injuries, be included.	upational Hygie	ene Elements,
Action Taken		Responsibility	Target Date
	instructed the Departmental members to turse on Safety Engineering in the month	Department I/C for Guest Lecture	August, 2018
Recommendation 3	The external expert kindly agreed to shar as well as the lab resources available in h following lab and Dissertation work of th i. Analytical tools in Oil and Gaii. Tribology Lab should be given course of Tribology & Combuiii. 4th semester students can do page	nis organization for e program. s Product Testing of to the students and stion Technology.	or conducting
Action Taken	iti. 4 semester students can do pr	Responsibility	Target Date
Raj Kum	e suggestion of the board members, Dr. ar Singh was given the charge for g the lab in the ONGC, Dehradun.	Course co- ordinator and Project co-	March, 2017
ii. As per the Gopal Ku	e suggestion of the board members, Mr. mar was given the charge for conducting IIP, Dehradun.	ordinator .	
iii. Mr. Dee communic	pak Vanjari was given charge to ate with the IIP, Dehradun labs for	1	
conducting	g the 4 th semester student project.		

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Recommendation 4	The boar	d proposed modification and up-gradation of the following		
	courses o	of the B. Tech, Petroleum Engineering program with effect of		
	forthcom	ing academic session 2018-19.		
	i.	Unit Operations		
	ii.	Reservoir Simulation		
	iii.	Elements of Reservoir Engineering		
	iv.	Petroleum Engineering and System Design		
	ν.	Applied Petroleum Reservoir Engineering		
	vi.	Petroleum Refining and Petrochemicals		
	vii.	Well Stimulation		
	viii.	Petroleum Exploration Methods		
	ix.	Formation Evaluation		
	х.	Directional Drilling		
	xi.	Oil & Gas Transportation System		
	xii.	cii. Health, Safety & Environmental Management in Petroleum		
		Operations		
	xiii.	Offshore Drilling & Production Practices		

Action Taken	Responsibility	Target Date
The Board had taken valuable inputs from the various external members and internal members and the respective course coordinators were given charge for modification and upgradation of the syllabus as per the suggestions given by the external members. Some of the suggested changes in syllabus were included in the courses oil & gas well drilling technology and well completion, petroleum production operation — I, oil & gas well testing, petroleum production operation — II, heat transfer process, Polymer Science, and Unconventional Hydrocarbon Resources. The revised syllabus was taken to the Academic Council for the approval and included into the program structure after the approval.	Chairman, BOS	Jan 2017



