

## **SCHOOL OF ENGINEERING**

# **DEPARTMENT OF PETROLEUM ENGINEERING**

## Feedback on Curriculum 2022-2023: Action Taken

(Feedback Analysis and Action Taken are presented and approved in the 14th Meeting of BoS held on 27th July, 2022)

### Student Feedback on Curriculum: Action Taken

Feedback Received	Action Taken
A total of around 73% of the respondents opined that the syllabus of the courses studied by them is very good to excellent.	To maximize the acceptability of the syllabus, it is resolved that the syllabi of the existing courses will be revised step-by-step wherever found necessary. In this regard, please refer to Annexure-I which displays the courses proposed for syllabus revision.
A total of around 70% of the respondents opined that the studied courses have applicability/ relevance to real life situations (Employability).	To maximize the course applicability/relevance to real life situations, it is resolved that the department will initiate the process of revising the syllabi of existing courses step-by-step wherever necessary and also introduce new courses if required. In this regard, please refer to Annexure-I which displays courses proposed for syllabus revision.
A total of around 70% of the respondents opined that the learning value in terms of skills, concepts, knowledge, and analytical abilities is within the range of very good to excellent.	It is resolved that more activities through NSS, SPE Student Chapter, AAPG Student Chapter, and Presidency University Petroleum Forum will be planned to enhance the learning value in terms of skills, concepts, knowledge, and analytical abilities.
A total of around 73% of the respondents opined that the sequence of the Courses that they have studied in the previous semester is within the range of very good to excellent.	It is resolved that the sequence of the courses will be discussed again in the DAC / BOS meeting and will be revised if found necessary.
A total of around 77% of the respondents opined that the sequence of the units in the courses is within the range of very good to excellent.	It is resolved that the sequence of the courses will be discussed again in the DAC / BOS meeting and will be revised if found necessary.
A total of around 73% of the respondents opined that the offering of the electives in terms of their relevance to the specialization streams is within the range of very good to excellent.	It is resolved that the department will initiate the process of revising the syllabi of existing elective courses step-by-step wherever necessary and also introduce new courses if required. In this regard, please refer to Annexure-I which displays courses proposed for syllabus revision.
A total of around 77% of the respondents opined that the relevance of the Text Books and reference books to the Courses is within the range of very good to excellent.	It is resolved that the list of textbooks and reference books will be updated to enhance the relevance with respect to the syllabus.
A total of around 73% of the respondents opined that the percentage of courses having LAB components is within the range of very good to excellent.	It is resolved that the initiatives will be taken to enhance the LAB components while revising the syllabus of lab-based courses. In this regard, please refer to Annexure-I which displays courses proposed for syllabus revision.
A total of around 77% of the respondents opined that the experiments in relation to the real life applications are within the range of very good to excellent.	It is resolved that the hands-on workshop will be planned by the faculty members/industry experts to offer the experiments in relation to real life applications.
It is proposed to add coding courses to the curriculum.	Four courses are added to the list of School Core and one course to the list of Discipline Electives.
Field practices need to get for all students.	It is resolved that the students will be encouraged to undertake more industry-oriented projects and the department will also try to arrange at least one field/industry visit for each student.
	VISIT FOR Each Student.

REGISTRAR





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### Alumni Feedback on Curriculum: Action Taken

Feedback Received	Action Taken						
A total of around 78% of the respondents opined that the	To maximize the acceptability of the syllabus, it is resolved						
syllabus of the courses studied by them was relevant. They	that the syllabi of the existing courses will be revised step-						
gave feedback within the range of very good to excellent.	by-step wherever found necessary. In this regard, please						
	refer to Annexure-I which displays the courses proposed						
	for syllabus revision.						
A total of around 69% of the respondents opined that the	It is resolved that the syllabi of the existing courses will be						
syllabus of the courses studied by them was within the	revised step-by-step wherever found necessary. In this						
range of very good to excellent.	regard, please refer to Annexure-I which displays the						
	courses proposed for syllabus revision.						
A total of around 66% of the respondents opined that the	It is resolved that the pedagogy implemented for course						
course content delivery was interesting.	content delivery will be discussed thoroughly to						
	incorporate changes wherever necessary.						
A total of around 66% of the respondents opined that the	It is resolved that the syllabi of the existing courses will be						
course curriculum intellectually stimulates them.	revised step-by-step wherever found necessary.						
A total of around 66% of the respondents opined that the	To maximize the acceptability of the course curriculum, it						
course curriculum fulfilled their expectations.	is resolved that the syllabi of the existing courses will be						
	revised step-by-step wherever found necessary. In this regard, please refer to Annexure-I which displays the						
A total of around 620% of the respondents onined that they	courses proposed for syllabus revision.  It is resolved that more activities through NSS, SPE						
A total of around 63% of the respondents opined that they learnt the required skills in the due course of study.	Student Chapter, AAPG Student Chapter, and Presidency						
learnt the required skins in the due course of study.	University Petroleum Forum will be planned to enhance						
	the learning value in terms of skills, concepts, knowledge						
	and analytical abilities.						
A total of around 63% of the respondents opined that the	It is resolved that the syllabi of existing courses will be						
syllabus created interest to pursue post-	revised wherever possible to create more interest among						
graduation/research in the particular topic.	the students for pursuing post-graduation/research in the						
	particular topic.						
A total of around 66% of the respondents opined that the	It is resolved that the syllabi of existing courses will be						
courses that they have learnt suiting the requirements of	revised wherever possible to make them suitable for						
the Industry.	fulfilling industry requirements.						
A total of around 72% of the respondents opined that the	It is resolved that the hands-on workshop will be planned						
learning experience in terms of their relevance to the real	by the faculty members/industry experts to offer						
life applications is within the range of very good to	experiments in relation to real life applications.						
excellent.							
A total of around 78% of the respondents opined that the	It is resolved that the more job-oriented courses will be						
courses leant in relation to their current job is within the	designed to ensure maximum employability.						
range of very good to excellent.							
It is suggested to add more petroleum/geology-related	A one-day visit to the industry is already incorporated in						
software (ex: ArcGIS, Eclipse,). This will help students	the Petroleum Geology course. Training / Workshop on						
when they start their careers.	Halliburton Software package is already initiated to fill-up						
	the gap. It is already proposed to incorporate ArcGIS into						
	the curriculum.						







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### Faculty Feedback on Curriculum: Action Taken

Feedback Received	Action Taken						
A total of around 60% of the respondents opined that the	It is resolved that the syllabi of the existing courses will be						
Syllabus is suitable to the course.	revised step-by-step wherever found necessary to make the						
	courses need-based. In this regard, please refer to						
	Annexure-I which displays the courses proposed for						
	syllabus revision.						
A total of around 60% of the respondents opined that the	It is resolved that the syllabi of the existing courses will be						
Syllabus is need based.	revised step-by-step wherever found necessary to make the						
	courses need-based. In this regard, please refer to						
	Annexure-I which displays the courses proposed for						
	syllabus revision.						
A total of around 60% of the respondents opined that the	It is resolved that the syllabi of the existing courses will be						
syllabi are well defined and clear to teachers and students.	revised step-by-step wherever found necessary.						
A total of around 60% of the respondents opined that the	It is resolved that the course content will be revised step-						
courses / syllabus has good balance between theory and	by-step wherever required and more lab-based courses will						
application. in introduced wherever possible. Please r							
	displaying the courses identified for syllabus revision.						
A total of around 60% of the respondents opined that the	It is resolved to add more optional papers to the program in						
course / program of studies carries sufficient number of	the future.						
optional papers.							
A total of around 80% of the respondents opined that the	It is resolved that the list of textbooks and reference books						
books prescribed / listed as reference materials are	will be updated.						
relevant, updated and appropriate.							
A total of around 80% of the respondents opined that they	It is resolved that an open discussion may be conducted						
have the freedom to propose, modify, suggest and	with the faculty members to discuss the freedom to						
incorporate new topics in the syllabus.	propose, modify, suggest and incorporate new topics in the						
	syllabus.						
A total of around 80% of the respondents opined that they	It is resolved that an open discussion may be conducted						
have the freedom to adopt new techniques/strategies of	with the faculty members to discuss the						
teaching such as seminar presentations, group discussions,	techniques/strategies that can be adopted for teaching.						
and learner's participations.							
A total of around 60% of the respondents opined that the	It is resolved that an open discussion may be conducted						
environment in the department is conducive to teaching	with the faculty members to improve the research						
and research.	environment in the department.						
It is proposed to increase the number of program core	It is resolved to revisit the curriculum structure and add						
courses.	more program core courses, if possible.						
It is suggested to add more discipline elective courses with	It is resolved to add more discipline elective courses with						
time.	time.						
For core courses, the credit should be 4 at least. It is really	It is resolved to revisit the syllabus and credit structure						
difficult for the faculties to complete particular courses in	once again and incorporate necessary changes. Please refer						
such constricted structure.	to Annexure-I.						
For some of the lab-integrated course the theory hours	It is resolved to revisit the syllabus and credit structure						
allocated is very less, the credit structure could be changed	once again and incorporate necessary changes. Please refer						
to give sufficient time for the theory part of the course.	to Annexure-I.						







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### **Employer Feedback on Curriculum: Action Taken**

Feedback Received	Action Taken					
A total of around 58% of the respondents opined that the adequacy of the core courses is within the range of very good to excellent.	It is resolved that the existing core courses will be revised step-by-step wherever required and new courses can also be introduced if found necessary. Please refer to Annexure-II displaying the courses identified for syllabus revision.					
A total of around 67% of the respondents opined that the practical content in the Curriculum is within the range of very good to excellent.	It is resolved that the course content will be revised step- by-step and practical content will be increased wherever required. Please refer to Annexure-II displaying the courses identified for syllabus revision.					
A total of around 58% of the respondents opined that the fulfillment of needs is within the range of very good to excellent.	It is resolved that the course content will be revised step- by-step wherever required.					
A total of around 58% of the respondents opined that the clear idea about the purpose of the course is within the range of very good to excellent.	It is resolved that the course objectives will be edited to make the clear idea about the purpose of the course.					
A total of around 42% of the respondents opined that the curriculum proved useful at workplace is within the range of very good to excellent.	It is resolved that the course content will be revised to make the curriculum more useful at workplace.					
A total of around 58% of the respondents opined that the Curriculum followed by the Employee relevant to Employability.	It is resolved that the course content will be revised step- by-step wherever required to make the curriculum more relevant towards employability.					
A total of around 50% of the respondents opined that the Curriculum helps at improving Students performance with respect to general communication.	It is resolved that the course curriculum will be revised wherever required for improving Students' performance with respect to general communication.					
A total of around 67% of the respondents opined that the Curriculum helps at improving Students performance with respect to their planning and organization skills.	It is resolved that the course content will be revised step- by-step wherever required. Please refer to Annexure-II displaying the courses identified for syllabus revision.					
A total of around 58% of the respondents opined that the Curriculum helps at improving Students performance with respect to developing practical solutions to work place problems.	It is also resolved to organize more hands-on workshops where real-filed data will be shared for analysis.					
A total of around 50% of the respondents opined that the Curriculum helps in building Entrepreneurial motives which helps the Students for starting their ventures.	It is resolved that a few courses or activities will be designed to improve Entrepreneurial skills among the students.					
It is proposed to add courses related to data analysis, patent filing process, multiphase flow, etc. to enhance the employability skills for the students.	The knowledge that is expected to be gained from the proposed courses can be achieved through the workshops or value added courses. Please refer to Annexure-II for the list of courses proposed to be added and implemented from the Academic Year 2022-2023.					
As CCUS (Carbon Capture Utilisation and Storage) has become an important aspect of the energy industry, it is proposed to impart knowledge among the students.	It is resolved to impart the knowledge about CCUS through Value Added Courses initially and a new course on CCUS may be introduced later.					









### Annexure-I

## List of Courses proposed and approved for Syllabus Modifications

(Proposed and approved in the 14th Meeting of BoS held on 27th July, 2022)

2 PF 3 PF 4 PF 5 PF 6 PF 7 PF 8 PF 9 PF 10 PF 11 PF 12 PF 13 PF 14 PF 15 PF 16 PF	ET1001 ET1003 ET1004 ET1005 ET1006 ET1007 ET1008 ET2001 ET2002	Petroleum Geology  Data Analytics for Oil and Gas Exploration  Fundamentals of Pore Pressure and Geomechanics  Geology for Engineers  Overview of Energy Industry  Introduction to Energy Trading and Future Options  Sustainable Energy Management	3 3 2 2 2 2 2	2 0 0 0 0	4 3 2 2	PC DE DE OE	
3 PE 4 PE 5 PE 6 PE 7 PE 8 PE 9 PE 10 PE 11 PE 12 PE 13 PE 14 PE 15 PE 16 PE	ET1004 ET1005 ET1006 ET1007 ET1008 ET2001	Fundamentals of Pore Pressure and Geomechanics Geology for Engineers Overview of Energy Industry Introduction to Energy Trading and Future Options	2 2 2	0	2	DE	-
4 PF 5 PF 6 PF 7 PF 8 PF 9 PF 10 PF 11 PF 12 PF 13 PF 14 PF 15 PF 16 PF	ET1005 ET1006 ET1007 ET1008 ET2001	Geology for Engineers  Overview of Energy Industry  Introduction to Energy Trading and Future Options	2	0	2		-
5 PE 6 PE 7 PE 8 PE 9 PE 10 PE 11 PE 12 PE 13 PE 14 PE 15 PE 16 PE	ET1006 ET1007 ET1008 ET2001	Overview of Energy Industry Introduction to Energy Trading and Future Options	2			OE	
6 PF 7 PF 8 PF 9 PF 10 PF 11 PF 12 PF 13 PF 14 PF 15 PF 16 PF	РЕТ1007 РЕТ1008 РЕТ2001	Introduction to Energy Trading and Future Options		0	_		<u>-</u>
7 PE 8 PE 9 PE 10 PE 11 PE 12 PE 13 PE 14 PE 15 PE 16 PE	ET1008 ET2001		2		2	OE	-
8 PF 9 PF 10 PF 11 PF 12 PF 13 PF 14 PF 15 PF 16 PF	ЕТ2001	Sustainable Energy Management		0	2	OE	-
9 PE 10 PE 11 PE 12 PE 13 PE 14 PE 15 PE 16 PE			2	0	2	OE	-
10 PE 11 PE 12 PE 13 PE 14 PE 15 PE 16 PE	ET2002	Drilling Fluids and Cements	3	2	4	PC	II
11 PE 12 PE 13 PE 14 PE 15 PE 16 PE		Fundamentals of Geophysical Logging Techniques	4	0	4	PC	IV
12 PE 13 PE 14 PE 15 PE 16 PE	ЕТ2003	Fundamentals of Oil and Gas Well Drilling Technology	3	0	3	PC	III
13 PE 14 PE 15 PE 16 PE	ET2004	Fundamentals of Petroleum Reservoir Engineering	3	2	4	PC	IV
14 PE 15 PE 16 PE	ЕТ2005	Fundamentals of Instrumentation and Control Engineering	2	2	3	PC	V
15 PE	ET2006	Fundamentals of Oil and Gas Production Technology	3	0	3	PC	V
16 PE	ET2008	Heat and Mass Transfer for Petroleum Engineering	2	2	3	PC	III
	ET2013	Introduction to Geoinformatics	3	0	3	DE	-
17 DE	ЕТ2014	Geophysical Methods for Oil and Gas Exploration	3	0	3	PC	V
1/ 1/	ET2015	Coal Bed Methane	3	0	3	DE	-
18 PE	ЕТ2016	Shale Gas	2	0	2	DE	-
19 PE	ЕТ2017	Natural Gas Hydrates	3	0	3	DE	-
20 PE	ET2026	Introduction to Computational Fluids Dynamics	3	0	3	OE	-
21 PE	ЕТ2027	Corrosion Science and Technology	3	0	3	DE	-
22 PE	ЕТ2030	Occupational Health and Safety	3	0	3	DE	-
23 PE	ЕТ2031	Overview of Material Science	3	0	3	OE	-
24 PE	ЕТ2032	Petroleum Economics	3	0	3	OE	-
25 PE	ЕТ3001	Geomechanics for Wellbore Stability Analysis	3	0	3	DE	-
26 PE	ЕТ3003	Offshore Drilling and Petroleum Production Practices	3	0	3	PC	VI
27 PE		Enhanced Oil and Gas Recovery Techniques	3	0	3	DE	-

 $L = Lecture, \ P = Practical, \ C = Credit, \ PC = Program \ Core \ Course, DE = Discipline \ Elective \ Course, OE = Open \ Elective \ Course, DE = Discipline \ Elective \ Course, OE = Open \ Elective \ Course, OE$ Course. NOTE: Semester is mentioned based on the 2022-2026 Batch.

Pursuant to Feedback received on the Curriculum from the Stakeholders, the above-listed courses are approved for syllabus modifications and for inclusion into the Curriculum from the Academic Year 2022-2023.







### Annexure-II

## List of Courses proposed and approved to be introduced as New Courses

(Proposed and approved in the 14th Meeting of BoS held on 27th July, 2022)

Sl. No.	Course Code	Course Name	L	Т	P	C	Course Type	Semester
1	PET 322	Data Science for Petroleum Engineers	2	0	0	2	DE	VIII
2	PET 323	Multiphase Flow for Oil and Gas Transport	2	0	0	2	DE	VIII
3	PET 324	Patent Creation Roadmap for Energy Professionals	2	0	0	2	DE	VIII

Pursuant to Feedback received on the Curriculum from the Stakeholders, the above-listed new courses are approved for inclusion into the Curriculum from the Academic Year 2022-2023.



