VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956

DEPARTMENT OF CHEMICAL ENGINEERING

Action Taken Report on B. Tech Petroleum Engineering Program R19 Feedback Implemented in R21 introduced in the AY 2021 – 22

Action taken based on the suggestions from Students:

Q1	Course Contents of B. Tech Petroleum Engineering Curriculum in tune with the Program Outcomes.
Q2	Course Contents designed to enable skills and knowledge required for Reservoir, well testing, drilling and production.
Q3	Courses placed in the B. Tech Petroleum Engineering curriculum serves the needs of both Advanced and Average learners.
Q4	Contact Hour Distribution among the various Course Components (LTP) is Satisfiable.
Q5	Electives have enabled the passion to learn new technologies in emerging areas.
Q6	B. Tech Petroleum Engineering Curriculum providing an opportunity towards Self-learning to realize the expectations.
Q7	Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable in B. Tech Petroleum Engineering curriculum.
Q8	No. of Laboratory sessions sufficient to improve the technical skills
Q9	Sufficient courses are available to improve the technical competency and leadership skills among the students.

Analysis of Overall Feedback given by the Students on R 19

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	25	33.3	25	8.3	4.2	3.54	Very-Good
Q2	29.2	20.8	33.3	4.2	8.3	3.458	Good
Q3	29.2	37.5	20.8	8.3	0	3.75	Very Good
Q4	33.3	29.2	16.7	8.3	8.3	3.583	Very Good
Q5	45.8	25	16.7	8.3	0	3.957	Very Good
Q6	37.5	20.8	25	12.5	0	3.707	Very Good
Q7	41.7	29.2	12.5	8.3	4.2	3.836	Very Good
Q8	25	33.3	29.2	4.2	4.2	3.584	Very Good
Q9	41.7	25	20.8	4.2	4.2	3.835	Very Good

Itemized responses were given to the Suggestions of Students

Suggestion: Include more problem-solving skills and data manipulation courses in the curriculum.

Action Taken: Introduction of subjects like Introduction to C Programming, Programming for Problem Solving, Data Structures are added to the curriculum

Suggestion: Add more courses related to industrial and new technologies in emerging fields.

Action Taken: Digitization of oil and gas industry, industry management type of courses added in the department elective category

Suggestion: Include more software related subjects.

Action Taken: Introduction of subjects like Introduction to C Programming, Programming for Problem Solving, Data Structures are added to the curriculum.

Suggestion: Provide more subjects related to a reservoir and well testing

Action Taken: Oil and Gas Well Testing separate course is added in 4^{th}-year 1^{st} semester.

Action taken based on the suggestions from Alumni:

Q1	B. Tech Petroleum Engineering Curriculum has paved a good foundation in understanding the basic engineering concepts.
Q2	Course Contents of Curriculum in tune with the Program Outcomes.
Q3	B. Tech Petroleum Engineering Curriculum imparted all the required Job Oriented Skills for its core and allied industries.
Q4	Professional and Open Electives of B. Tech Petroleum Engineering Curriculum served the technical advancements needed to serve in the industry.
Q5	Activities, experiments planned during laboratory sessions are sufficient in the curriculum.
Q6	Are you in a position to compete with your peers from other Universities?
Q7	The current Regulation Curriculum is superior to your studied Curriculum.

Analysis of Overall Feedback given by the Alumni on R 19

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	28.6	71.4	0	0	0	4.286	Excellent
Q2	57.1	42.9	0	0	0	4.571	Excellent
Q3	14.3	85.7	0	0	0	4.143	Excellent
Q4	42.9	42.9	14.3	0	0	4.29	Excellent
Q5	42.9	42.9	14.3	0	0	4.29	Excellent
Q6	42.9	42.9	14.3	0	0	4.29	Excellent
Q7	85.7	14.3	0	0	0	4.857	Excellent

Itemized responses were given to the Suggestions of Students

Suggestion: Field visits should often be organized

Action Taken: Due to the current pandemic, no company allows students to be exposed. Once the situation stabilises, industrial visits will be planned more frequently than ever.

Suggestion: Labs need to be equipped with all the required equipment.

Action Taken: Equipment acquisition is nearing completion and all laboratories will soon be equipped with the corresponding equipment.

Suggestion: Placements should be improved.

Action Taken:

Industry internship and industrial training for students has been ensured the more placements in the nearest industrial sector.

Action taken based on the suggestions from Faculty:

Q1	Course Contents of B. Tech Petroleum Engineering Curriculum in tune with the Program Outcomes.
Q2	Course Contents of B. Tech Petroleum Engineering enhance the Problem-Solving Skills and Core competencies.
Q3	Allocation of Credits to the Courses are appropriate.
Q4	Contact Hour Distribution among the various Course Components (LTP) are appropriate.
Q5	Electives cover the frontier technologies in the field of Petroleum oil and gas industries.
Q6	Curriculum providing an opportunity towards Self-learning to realize the expectations.
Q7	The composition of Basic Sciences, Engineering, Humanities and Management Courses are appropriate.
Q8	Laboratory sessions are sufficient to improve the technical skills of students.
Q9	Sufficient courses are available to improve the technical competency and leadership skills among the students.

Analysis of Overall Feedback given by the Faculty on R 19

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	62.5	37.5	0	0	0	4.625	Excellent
Q2	75	25	0	0	0	4.75	Excellent
Q3	62.5	25	12.5	0	0	4.5	Excellent
Q4	37.5	62.5	0	0	0	4.375	Excellent
Q5	62.5	37.5	0	0	0	4.625	Excellent
Q6	62.5	12.5	25	0	0	4.375	Excellent
Q7	62.5	37.5	0	0	0	4.625	Excellent
Q8	75	25	0	0	0	4.75	Excellent
Q9	87.5	12.5	0	0	0	4.875	Excellent

Itemized responses were given to the suggestions of the faculty

Suggestion: Include courses that address emerging and pioneering industries.

Action Taken: Industry oriented upstream elective subjects are incorporated into the new curriculum

Suggestion: Perform special and continuous monitoring of students having backlogs.

Action Taken: Slow learners' program is a part of the curriculum to monitor and support the backlog students

Action taken based on the suggestions from Employers:

Q1	Course Contents of B. Tech Petroleum Engineering Curriculum in tune with the Program Outcomes.
Q2	Course content designed to enable skills and knowledge required for oil and gas industries.
Q3	Professional Electives and Open Elective are in line with the technology advancements.
Q4	The curriculum imparted all the required skills for Petroleum oil and gas industry.
Q5	Problem Solving and Soft Skills acquired by the students through the course contents will enable them to be placed in MNC.

Analysis of Overall Feedback given by the Employers on R 19

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	33.3	33.3	33.3	0	0	3.996	Very Good
Q2	55.6	22.2	22.2	0	0	4.334	Excellent
Q3	33.3	44.4	22.2	0	0	4.107	Excellent
Q4	22.2	55.6	22.2	0	0	4	Excellent
Q5	22.2	44.4	33.3	0	0	3.885	Very Good

Itemized responses were given to the suggestions of Employers

Suggestion: Courses like python programming, machine learning can add additional skills to the students

Action Taken: More emphasis is given on software related and problem-solving skill related subjects

Suggestion: Theoretically good, professional software courses related to the programme can be included

Action Taken: Data Structures, Introduction to C Programming courses is included.

Action taken based on the suggestions from Parents:

Q1	Course Contents of B. Tech Petroleum Engineering Curriculum in tune with the Program Outcomes.
Q2	B. Tech Petroleum Engineering Curriculum helped to improve technical knowledge acquired by your son/daughter in our university.
Q3	B. Tech Petroleum Engineering Curriculum helped to improve the Academic, Emotional, Progression of your son/daughter in our university.
Q4	Proficiency of your son/daughters on par with the students from other universities / Institutes.
Q5	Course content designed to enable skills and knowledge required for oil and gas industries.

Analysis of Overall Feedback given by the Parents on R 19

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	40	46.7	13.3	0	0	4.267	Excellent
Q2	53.3	26.7	20	0	0	4.333	Excellent
Q3	40	40	20	0	0	4.2	Excellent
Q4	26.7	40	33.3	0	0	3.934	Very Good
Q5	53.3	40	6.7	0	0	4.466	Excellent

Itemized responses were given to the suggestions of Parents

Suggestion: Project-based curriculum must be implemented

Action Taken: It may not be possible to send students for a one-semester internship from the 6th semester onwards because students should have potential knowledge in advanced courses but the student can opt for one-month industry training during summer vacation (prior information required to the department to avail the summer internship in industry

Suggestion: The curriculum must improve the placements of the department

Action Taken: Industry internship and industrial training for students has been ensured the more placements in the nearest industrial sector.

Suggestion: Provide coaching for higher studies (GRE/GATE)

Action Taken: Action Taken: The program itself offers courses to enhance English fluency and communication for aspiring GRE students. Availability of additional GATE coaching courses by departmental faculty to train aspiring GATE students.

- Feedback from all stakeholders on the R16 program during the 2020-2021 academic year is also taken into account and will be discussed at the BOS meeting

HoD, Chemical Engineering