



DEPARTMENT OF CHEMICAL ENGINEERING
Course :: B.Tech Petroleum Engineering
Minutes of CDMC Meeting

06-03-2019

The members of Curriculum Design and Monitoring Committee for B. Tech Petroleum Engineering program met on 06-03-2019 at VSF09, 'H' block, of VFSTR. The following members attended the meeting.

| S.No | Members | Designation | Signatures |
|------|---|-------------|------------|
| 1. | Dr. M. Ramesh Naidu (Professor & Head) | Chairman | |
| 2. | Mr. P.Ashok Kumar | Member | |
| 3. | Mr. Prathamesh S | Member | |
| 4. | Mr. Shree Harsha | Member | |

Agenda of the meeting

Analysis of the feedback collected from various stakeholders such as Alumni, Employers, Faculty, Parents and Students during the academic year 2018-19.

The following are the important points of analysis obtained from various stakeholders:

The feedback analysis reveals that laboratory sessions help to improve the student's technical skills and the courses placed in the curriculum supports both the advanced learners as well as slow learners.

Time to time meetings were conducted at the department level to leverage new and advanced techniques to combat the learning difficulties of the students by considering their Employer's feedback.

The feedback analysis reveals that laboratory sessions help to improve the student's technical skills and the courses placed in the curriculum supports both the advanced learners as well as slow learners. Detailed feedback analysis report is enclosed as Annexure-I

Chairman, CDMC

Chairman – CDMC has briefed the draft curriculum to the members. (R-19 Curriculum)

Following are the changes suggested by members of CDMC in the revised curriculum course structure,

- (a) Majority of theory courses are integrated with laboratory to improve the practical knowledge.
- (b) Reduce the credits, as major institutions are offering below 150 credits, it will give the time to self-learning.
- (c) Offer courses related to life and employability skills.
- (d) Incorporate modular course to expose the students in industry prospective and suggested to invite industry person to offer it.
- (e) Introduce minor projects in all courses to enhance practical skills.

The outcomes of the meeting will be placed before the BoS for further discussion and recommendations.


Chairman, CDMC

Annexure 1

Feedback from Employers 2018-19 (Academic Year) - UG – B. Tech (PE)

The result derived in terms of percentage of students with common views, average score, and ratings are presented in Table 1.

Table 1: Analysis of feedback from Employers 2018-19

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade |
|------------|----------------|-------|----------|----------|-------------------|-------------|-----------|
| Q1 | 33.3 | 0 | 66.7 | 0 | 0 | 3.666 | Very Good |
| Q2 | 66.7 | 0 | 33.3 | 0 | 0 | 4.334 | Excellent |
| Q3 | 33.3 | 66.7 | 0 | 0 | 0 | 4.333 | Excellent |
| Q4 | 0 | 66.7 | 33.3 | 0 | 0 | 3.667 | Very Good |
| Q5 | 33.3 | 0 | 66.7 | 0 | 0 | 3.666 | Very Good |

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| Q1 | Course Contents of B. Tech – Petroleum Engineering Curriculum are in tune with the Program Outcomes. |
| Q2 | Course Contents designed to enable skills and knowledge required for oil and gas industries. |
| Q3 | Professional Electives and Open Elective are in-line with the technological advancements. |
| Q4 | 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 |

The highest score of 4.334 was given to the parameter “Course Contents designed to enable skills and knowledge required for oil and gas industries” followed by “Professional Electives and Open Elective are in-line with the technological advancements” with a score of 4.333 has been rated as Excellent.

It is clearly visible from the table 4 that the parameters “Course Contents of B. Tech – Petroleum Engineering Curriculum are in tune with the Program Outcomes; Curriculum imparted all the required skills for Petroleum oil and gas industry and Problem Solving and Soft Skills acquired by the students through the curriculum will enable them to be placed in MNC” obtained average scores 3.666, 3.667 and 3.666 have been rated as Very Good.

Time to time meetings were conducted at the department level to leverage new and advanced techniques to combat the learning difficulties of the students.

The feedback analysis reveals that laboratory sessions help to improve the student’s technical skills for Petroleum oil and gas industry.

Feedback from Faculty 2018-19 (Academic Year) - UG – B. Tech (PE)

The result derived in terms of percentage of students with common views, average score, and ratings is presented in Table 2.

Table 2: Analysis of feedback from faculty 2018-19

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade |
|------------|----------------|-------|----------|----------|-------------------|-------------|-----------|
| Q1 | 75 | 25 | 0 | 0 | 0 | 4.75 | Excellent |
| Q2 | 75 | 25 | 0 | 0 | 0 | 4.75 | Excellent |
| Q3 | 25 | 50 | 25 | 0 | 0 | 4 | Excellent |
| Q4 | 25 | 75 | 0 | 0 | 0 | 4.25 | Excellent |
| Q5 | 75 | 25 | 0 | 0 | 0 | 4.75 | Excellent |
| Q6 | 25 | 50 | 25 | 0 | 0 | 4 | Excellent |
| Q7 | 75 | 25 | 0 | 0 | 0 | 4.75 | Excellent |
| Q8 | 75 | 0 | 25 | 0 | 0 | 4.5 | Excellent |
| Q9 | 25 | 75 | 0 | 0 | 0 | 4.25 | Excellent |

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| Q1 | Course Contents of B. Tech – Petroleum Engineering Curriculum are in tune with the Program Outcomes. |
| Q2 | Course Contents of B. Tech – Petroleum Engineering enhances 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 opportunity towards Self learning to realize the expectations |
| Q7 | Composition of Basic Sciences, Engineering, Humanities and Management Courses are appropriate. |
| Q8 | laboratory sessions sufficient to improve the technical skills of students |
| Q9 | Sufficient courses available to improve the technical competency and leadership skills among the students. |

The highest score of 4.75 was given to the parameters “Course Contents of B. Tech – Petroleum Engineering curriculum are in tune with the Program Outcomes, Course Contents of B. Tech – Petroleum Engineering enhance the Problem-Solving Skills and Core competencies, Contact Hour Distribution among the various Course Components (LTP) are appropriate, Electives cover the frontier technologies in the field of Petroleum oil and gas industries, Composition of Basic Sciences, Engineering, Humanities and Management Courses are appropriate.

It is clearly visible from the table 4 that the parameters “Allocation of Credits to the Courses are satisfiable, Contact Hour Distribution among the various Course Components (LTP) are

appropriate, Curriculum providing opportunity towards Self learning to realize the expectations, Courses with laboratory sessions are sufficient to improve the technical skills of students and Sufficient courses available to improve the technical competency and leadership skills among the students” obtained average scores 4, 4.25, 4, 4.5 and 4.5 respectively have been rated as Excellent.

Time to time meetings were conducted at the department level to leverage new and advanced techniques to combat the learning difficulties of the students.

The feedback analysis reveals that laboratory sessions help to improve the student’s technical skills.

Feedback from Parents 2018-19 (Academic Year) - UG – B. Tech (PE)

The result derived in terms of percentage of students with common views, average score, and ratings are presented in Table 3.

Table 3: Analysis of feedback from Parents 2018-19

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade |
|-------------------|-----------------------|--------------|-----------------|-----------------|--------------------------|--------------------|--------------|
| Q1 | 15.4 | 53.8 | 30.8 | 0 | 0 | 3.846 | Very Good |
| Q2 | 30.8 | 61.5 | 7.7 | 0 | 0 | 4.231 | Excellent |
| Q3 | 38.5 | 53.8 | 7.7 | 0 | 0 | 4.308 | Excellent |
| Q4 | 30.8 | 38.5 | 30.8 | 0 | 0 | 4.004 | Excellent |
| Q5 | 30.8 | 15.4 | 53.8 | 0 | 0 | 3.77 | Very Good |

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| Q1 | Course Contents of B. Tech – Petroleum Engineering Curriculum are in tune with the Program Outcomes. |
| Q2 | B. Tech – Petroleum Engineering Curriculum helped improving technical knowledge acquired by your son / daughter in our University |
| Q3 | B. Tech – Petroleum Engineering Curriculum helped improving Academic, Emotional Progression of your son / daughter in our University |
| Q4 | Proficiency of your son / daughter is on par with the students from other Universities/Institutes |
| Q5 | Course Curriculum is of the global standard and is in tune with the needs of oil and gas industries. |

The highest score of 4.308 was given to the parameter “B. Tech – Petroleum Engineering Curriculum helped improving Academic, Emotional Progression of your son / daughter in our University” followed by “B. Tech – Petroleum Engineering Curriculum helped improving technical knowledge acquired by your son / daughter in our University” with a score of 4.231 and has been rated as Excellent.

Scores of 4.004 was obtained by the parameters “Proficiency of your son / daughter is on par with the students from other Universities/Institutes” are rated as Excellent.

Scores of 3.846 was obtained by the parameters “Course Contents of B. Tech – Petroleum Engineering Curriculum are in tune with the Program Outcomes” is rated as Very Good.

It is clearly visible from the table 4 that the parameters “Course Curriculum is of the global standard and is in tune with the needs of oil and gas industries” obtained average scores 3.77 has been rated as Very Good.

Time to time meetings were conducted at the department level to leverage new and advanced techniques to combat the learning difficulties of the students.

The feedback analysis reveals that laboratory sessions help to improve the student’s technical skills in the oil and gas industries.

Feedback from Students 2018-19 (Academic Year) - UG – B. Tech (PE)

The result derived in terms of percentage of students with common views, average score, and ratings is presented in Table 4.

Table 4: Analysis of feedback from students 2018–19

| Parameters | Strongly Agree | Agree | Moderate | Disagree | Strongly Disagree | Avg. Rating | Grade |
|------------|----------------|-------|----------|----------|-------------------|-------------|-----------|
| Q1 | 43.9 | 36.4 | 13.6 | 0 | 6.1 | 4.12 | Excellent |
| Q2 | 40.9 | 36.4 | 15.2 | 0 | 7.6 | 4.033 | Excellent |
| Q3 | 40.9 | 33.3 | 21.2 | 0 | 4.5 | 4.058 | Excellent |
| Q4 | 27.3 | 43.9 | 24.2 | 0 | 4.5 | 3.892 | Very Good |
| Q5 | 39.4 | 33.3 | 19.7 | 0 | 7.6 | 3.969 | Very Good |
| Q6 | 19.7 | 57.6 | 22.7 | 0 | 0 | 3.97 | Very Good |
| Q7 | 34.8 | 48.5 | 16.7 | 0 | 0 | 4.181 | Excellent |
| Q8 | 34.8 | 48.5 | 13.6 | 0 | 3 | 4.118 | Excellent |
| Q9 | 33.3 | 34.8 | 19.7 | 0 | 12.1 | 3.769 | Very Good |

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| Q1 | Course Contents of B. Tech – Petroleum Engineering Curriculum are 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 opportunity towards Self learning to realize the expectations |
| Q7 | Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and appropriate in B. Tech – Petroleum Engineering curriculum. |

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| Q8 | No. of Laboratory sessions sufficient to improve the technical skills |
| Q9 | Sufficient courses available to improve technical competency and leadership skills among the students. |

The highest score of 4.181 was given to the parameter "Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable in B. Tech – Petroleum Engineering curriculum" followed by "Course Contents of B. Tech – Petroleum Engineering Curriculum are in tune with the Program Outcomes" with a score of 4.12 has been rated as Excellent.

It is clearly visible from the table 4 that the parameters "No. of Laboratory sessions sufficient to improve the technical skills; Courses placed in the B. Tech – Petroleum Engineering curriculum serves the needs of both Advanced and Average learners and Course Contents designed to enable skills and knowledge required for Reservoir, well testing, drilling and production" obtained average scores 4.118, 4.058 and 4.033 respectively have been rated as Excellent.

Average scores of 3.97; 3.969; 3.892 and 3.769 were obtained by the parameters "B.Tech – Petroleum Engineering Curriculum providing opportunity towards Self learning to realize the expectations ;Electives have enabled the passion to learn new technologies in emerging areas; Contact Hour Distribution among the various Course Components (LTP) is satisfiable and Sufficient courses available to improve technical competency and leadership skills among the students" are rated as Very Good.

Time to time meetings were conducted at the department level to leverage new and advanced techniques to combat the learning difficulties of the students.

The feedback analysis reveals that the courses placed in the curriculum supports both the advanced learners as well as slow learners.



Head of Department and Chairman – CDMC

B. Tech Petroleum Engineering

Department of Chemical Engineering