



**DEPARTMENT OF APPLIED ENGINEERING**

**Minutes of CDMC Meeting**

17-03-2020

The members of Curriculum Design and Monitoring Committee for M.Tech Farm Machinery program met on 17-03-2020 at AFTF-05, 'U' block, of VFSTR. The following members attended the meeting.

S no	Name	Signature
1	Mr. N. Narayan Rao Asst. Prof & Head-Applied Engineering, Vignan's Foundation for Science, Technology & Research (Deemed to be University), Vadlamudi.	
2	Dr. A. Rama Rao Asst. Prof, Applied Engineering Vignan's Foundation for Science, Technology & Research (Deemed to be University), Vadlamudi.	
3	Dr. Ayyanna DS Asst. Prof, VFSTR, Applied Engineering (Deemed to be University), Vadlamudi	

**Agenda of the meeting**

Analysis of the feedback collected from various stakeholders such as Alumni, Employers, Faculty, Parents and Students during the academic year 2019-20.

**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

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

Chairman, CDMC

**Mr. N. Narayan Rao, M.Tech (Ph.D)**  
Head of the Department  
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VFSTR (Deemed to be University)  
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## ANNEXURE 1

### FEEDBACK ANALYSIS OF STUDENT on M.Tech-Farm Machinery Curriculum in AY: 2019 – 20

Feedback has been received from the Student on the following parameters:

1. The Course Contents of Curriculum in adapt with the Program Outcomes
2. The Course Contents designed to enable Problem Solving Skills and Core competencies
3. Courses placed in the curriculum serves the needs of both advanced and slow learners
4. Contact Hour Distribution among the various Course Components (LTP) is Satisfiable
5. Electives have enabled the passion to learn new technologies in emerging areas of Agricultural Engineering
6. The Curriculum providing opportunity towards Self learning to realize the expectations
7. The Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable
8. No. of Laboratory sessions Integrated with Theory Courses have been sufficient to improve the technical as well as practical skills in Agricultural Engineering
9. Integration of Minor Project with Theory Courses have enhanced the technical competency and leadership skills.

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ )

#### Feedback from Student 2019-20 (Academic Year) - PG – M.Tech (FM)

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

Table 1: Analysis of feedback from Student 2019–20

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	100	0	0	0	0	5	Excellent
Q2	100	0	0	0	0	5	Excellent
Q3	100	0	0	0	0	5	Excellent
Q4	0	100	0	0	0	4	Excellent
Q5	100	0	0	0	0	5	Excellent
Q6	100	0	0	0	0	5	Excellent
Q7	0	100	0	0	0	4	Excellent
Q8	100	0	0	0	0	5	Excellent
Q9	100	0	0	0	0	5	Excellent



The highest score of 5 was given to the parameter “The Course Contents of Curriculum in adapt with the Program Outcomes”, “The Course Contents designed to enable Problem Solving Skills and Core competencies”, “Courses placed in the curriculum serves the needs of both advanced and slow learners”, “Electives have enabled the passion to learn new technologies in emerging areas of Agricultural Engineering”, “The Curriculum providing opportunity towards Self learning to realize the expectations”, “No. of Laboratory sessions Integrated with Theory Courses have been sufficient to improve the technical as well as practical skills in Agricultural Engineering” and “Integration of Minor Project with Theory Courses have enhanced the technical competency and leadership skills”.

Followed by “Contact Hour Distribution among the various Course Components (LTP) is Satisfiable” and “The Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable” with a score of 4 has been rated as Excellent.

Parameters	2015-16	2016-17	2017-18	2018-19	2019-20
Q1	4	4.5	4.667	4.667	5
Q2	5	4.5	4.333	4.833	5
Q3	5	5	5	4.833	5
Q4	5	4.5	5	4.5	4
Q5	4	4.5	5	4.667	5
Q6	5	5	4.667	4.833	5
Q7	5	5	4.667	4.833	4
Q8	4	4.5	4.667	4.833	5
Q9	5	5	4.667	4.833	5

### **FEEDBACK ANALYSIS OF ALUMNI on M.Tech-Farm Machinery Curriculum in AY: 2019 – 20**

Feedback has been received from the ALUMNI on the following parameters:

1. The Curriculum has paved a good foundation in understanding the basic concepts of Agriculture Engineering
2. The Course Contents of Curriculum in adapt with the Program Outcomes
3. The Curriculum imparted all the required Job Oriented Skills
4. Professional and Open Electives of Curriculum served the technical advancements needed to serve the requirements of Agriculture farming community and Industry Practices



5. Agriculture equipment and Technologies learnt during laboratory sessions has enriched the problem solving skills
6. Competing with your peers from other Universities
7. Current Curriculum is superior than your studied Curriculum

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ )

#### **Feedback from ALUMNI 2019-20 (Academic Year) - PG – M.Tech (FM)**

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

**Table 1: Analysis of feedback from ALUMNI 2019–20**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	0	100	0	0	0	4	Excellent
Q2	0	40	40	20	0	3.2	Good
Q3	0	20	20	40	20	2.4	Moderate
Q4	0	60	20	20	0	3.4	Good
Q5	0	40	20	40	0	3	Good
Q6	20	20	40	0	20	3.2	Good
Q7	20	60	20	0	0	4	Excellent

The highest score of 4 was given to the parameter “The Course Contents of Curriculum in adapt with the Program Outcomes” and “Current Curriculum is superior than your studied Curriculum”..

Followed by “Professional and Open Electives of Curriculum served the technical advancements needed to serve the requirements of Agriculture farming community and Industry Practices” with a score of 3.4 has been rated as Excellent.

It is clearly visible from the table that the parameters “The Course Contents of Curriculum in adapt with the Program Outcomes”, “The Curriculum imparted all the required Job Oriented Skills”, “Agriculture equipment and Technologies learnt during laboratory sessions has enriched the problem-solving skills”, and “Competing with your peers from other Universities” obtained average 3.2, 2.4, 3 and 3.2 respectively has been rated as Excellent.



Parameters	2015-16	2016-17	2017-18	2018-19	2019-20
Q1		5	4	4.25	4
Q2		5	4.125	4	3.2
Q3		4.5	3	3.75	2.4
Q4		5	3.5	3.75	3.4
Q5		5	3	3.5	3
Q6		4.5	3.375	3.5	3.2
Q7		5	3.875	3.25	4

## **FEEDBACK ANALYSIS OF FACULTY On M.Tech-Farm Machinery Curriculum in AY: 2019 – 20**

Feedback has been received from the Student Faculty on the following parameters:

1. The Course Contents of Curriculum in tune with the Program Outcomes
2. Course Contents enhance the Problem Solving Skills and Core competencies
3. Allocation of Credits to the Courses are satisfiable
4. Contact Hour Distribution among the various Course Components (LTP) is Satisfiable
5. Do Electives enable the passion to learn new technologies in emerging areas of Engineering
6. The Curriculum providing opportunity towards Self learning to realize the expectations of present trend in design and research needs
7. The inclusion of Employability Orientation Program and Research Methodology in the curriculum satisfiable
8. The number of theoretical courses amalgamated with laboratory sessions sufficient to improve the technical skills of students
9. Introducing Mini Projects and Socio-centric Projects along with Theory Courses improved the research competency and leadership skills among the students

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ )

### **Feedback from Faculty 2019-20 (Academic Year) - PG – M.Tech (FM)**

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



**Table 1: Analysis of feedback from Faculty 2019–20**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	51.7	24.1	17.2	3.4	3.4	4.167	Excellent
Q2	51.7	37.9	3.4	6.9	0	4.341	Excellent
Q3	51.7	44.8	3.4	0	0	4.479	Excellent
Q4	48.3	24.1	24.1	3.4	0	4.17	Excellent
Q5	58.6	41.4	0	0	0	4.586	Excellent
Q6	58.6	37.9	0	3.4	0	4.514	Excellent
Q7	58.6	37.9	3.4	0	0	4.548	Excellent
Q8	55.2	41.4	3.4	0	0	4.518	Excellent
Q9	43.3	53.3	3.3	0	0	4.396	Excellent

The highest score of 4.586 was given to the parameter “Do Electives enable the passion to learn new technologies in emerging areas of Engineering” has been rated Excellent.

Followed by “The inclusion of Employability Orientation Program and Research Methodology in the curriculum satisfiable “with a score of 4.548 has been rated as Excellent.

It is clearly visible from the table that the parameters “The Course Contents of Curriculum in tune with the Program Outcomes”, “Course Contents enhance the Problem Solving Skills and Core competencies”, “Allocation of Credits to the Courses are satisfiable”, “Contact Hour Distribution among the various Course Components (LTP) is Satisfiable”, “The Curriculum providing opportunity towards Self learning to realize the expectations of present trend in design and research needs”, “The number of theoretical courses amalgamated with laboratory sessions sufficient to improve the technical skills of students” and “Introducing Mini Projects and Socio-centric Projects along with Theory Courses improved the research competency and leadership skills among the students” obtained average scores 4.167, 4.341, 4.479, 4.17, 4.514, 4.518 and 4.396 respectively and has been rated as Excellent.

Parameters	2015-16	2016-17	2017-18	2018-19	2019-20
Q1	4.089	3.996	4.238	3.996	4.167
Q2	4.273	4.273	4.238	4.26	4.341
Q3	4.455	4.483	4.428	4.482	4.479
Q4	4.179	4.172	4.142	4.223	4.17
Q5	4.545	4.586	4.571	4.519	4.586
Q6	4.41	4.445	4.38	4.371	4.514
Q7	4.315	4.311	4.332	4.334	4.548
Q8	4.545	4.656	4.666	4.519	4.518
Q9	4.406	4.518	4.523	4.366	4.396



## FEEDBACK ANALYSIS OF EMPLOYER on M.Tech Farm Machinery Curriculum in AY: 2019 – 20

1. The Course Contents of Curriculum in adapt with the Program Outcomes
2. The Course Contents in adapt with the Agricultural Industry Demands and Research Needs
3. Core Electives and Open Elective are in-line with the technology advancements in the Agriculture field
4. Applicability of the Device and Agricultural technologies described in the curriculum will be enoPGh to practice in Existing in industries as well as Farming community
5. Problem Solving and Soft Skills acquired by the students throPGh the course contents will enable them to be place in Public Sector Units, MNC's, Government Sectors and Research Agencies.

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ )

### Feedback from EMPLOYER 2019-20 (Academic Year) - PG – M.Tech (FM)

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

**Table 1: Analysis of feedback from EMPLOYER 2019–20**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1							
Q2							
Q3							
Q4							
Q5							

Parameters	2015-16	2016-17	2017-18	2018-19	2019-20
<b>Q1</b>	2.333	3.5	5	4.001	
<b>Q2</b>	2.333	3.75	5	3.663	
<b>Q3</b>	3.667	4	5	4.334	
<b>Q4</b>	3.333	4	5	3.996	
<b>Q5</b>	3.996	3.5	5	3.663	



## FEEDBACK ANALYSIS OF PARENT on M.Tech-Farm Machinery Curriculum in AY: 2019 – 20

Feedback has been received from the Parent on the following parameters:

1. Curriculum enhances the intellectual aptitude of your ward
2. Curriculum realizes the personality development and technical skilling of your ward
3. Satisfaction about the Academic, Emotional Progression of your ward
4. Competency of your ward is on par with the students from other Universities/Institutes
5. Course Curriculum is of the global standard and is in tune with the needs of construction Industry

The categorization of rating is as follows: Strongly Agree (5), Agree (4), Moderate (3), Disagree (2) and Strongly Disagree (1).

Feedback Analysis is carried based on Average Satisfaction Rating. Rating categorization is carried based on Excellent ( $\geq 4$ ); Very Good ( $\geq 3.5$  &  $< 4$ ); Good ( $\geq 3$  &  $< 3.5$ ); Moderate ( $> 2$  &  $< 3$ ) and Unsatisfactory ( $< 2$ )

### Feedback from Parent 2019-20 (Academic Year) - PG – M.Tech (FM)

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

**Table 1: Analysis of feedback from Parent 2019–20**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	100	0	0	0	0	5	Excellent
Q2	100	0	0	0	0	5	Excellent
Q3	100	0	0	0	0	5	Excellent
Q4	100	0	0	0	0	5	Excellent
Q5	100	0	0	0	0	5	Excellent

The highest score of 4.334 was given to the parameter “Curriculum enhances the intellectual aptitude of your ward”, “Curriculum realizes the personality development and technical skilling of your ward”, “Satisfaction about the Academic, Emotional Progression of your ward”, “Competency of your ward is on par with the students from other



Universities/Institutes” and “Course Curriculum is of the global standard and is in tune with the needs of construction Industry” with a score of 4 has been rated as Excellent.

Parameters	2015-16	2016-17	2017-18	2018-19	2019-20
Q1	4	4.667	0	3.502	5
Q2	4	4.333	3.5	3.836	5
Q3	4	4.667	3.5	3.836	5
Q4	4	4.667	3.5	4.003	5
Q5	4	4.667	3.5	4.003	5

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