



**VIGNAN'S**

Foundation for Science, Technology & Research

-Estd. u/s 3 of UGC Act 1956

## Department of Information Technology

Vadlamudi – 522 213, Guntur Dt. AP, India

### Minutes of CDMC Meeting

12-03-2016

The members of Curriculum Design and Monitoring Committee for B.Tech. Information Technology programme met on 12-03-2016 at ASF06, 'U' block, of VFSTR. The following members attended the meeting.

S.No	Members	Designation	Signatures
1.	Dr.N. Veeranjayulu Professor & Head	Chairman	
2.	Mr.B.Premamayudu	Member	
3.	Mrs.K.Santh Sri	Member	
4.	Mr.P.Subbarao	Member	

#### **Agenda of the meeting**

1. Analysis of the feedback collected from various stakeholders such as Alumni, Employers, Faculty, Parents and Students during the academic year 2015-16.
2. Any point with the permission of Chair.

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

1. Add employability courses like the internet of things, scripting languages, and cloud computing, etc.
2. Freedom to select interdisciplinary courses from a large pool of electives courses
3. Courses like Cloud Computing, Big data analytics, machine learning, and the internet of things can be made as a core category
4. It is better to introduce the fundamental concepts of Data Science and Data Analytics courses in the curriculum to get the basic information about cutting edge technologies
5. It is better to include more practical oriented topics from the 2nd Unit onwards instead of theoretical issues in the Big Data Analytics course. Further, it is also advised to introduce statistical analysis using functional languages from 2nd year itself.



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6. It is better to remove the number systems and introduction to computer issues from Unit-I and better to add programming issues and problem-solving techniques in Problem-solving and Computer Programming course.
7. It is better to include the design and analysis of algorithms in detail. Further, introduce the same course in two semesters to get to understand every problem-solving technique and case studies in design
8. It is essential to include functional and scripting languages for the students very early in the programme and also include the various case studies on programming knowledge.
9. Add employability courses in curriculum
10. Add more courses related to IT company

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

**Annexure 1****Feedback from Students 2015-16 (Academic Year) - UG – B. Tech (IT)**

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

**Table 1: Analysis of feedback from students 2015 – 16**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	39.5	40.3	10.9	5	3.4	4.048	Excellent
Q2	39.5	37.8	11.8	6.7	4.2	4.017	Excellent
Q3	23.5	45.4	18.5	7.6	5	3.748	Very Good
Q4	22.7	37	21.8	5.9	12.6	3.513	Very Good
Q5	32.8	34.5	21.8	5	5.9	3.833	Very Good
Q6	25.2	35.3	27.7	5.9	5.9	3.68	Very Good
Q7	32.8	42.9	16	4.2	4.2	3.962	Very Good
Q8	30.3	49.6	8.4	5.9	5.9	3.928	Very Good
Q9	30.3	34.5	20.2	6.7	8.4	3.719	Very Good

Q1.Course Contents of Curriculum are in tune with the Program Outcomes

Q2.Course Contents are designed to enable Problem Solving Skills and Core competencies

Q3.Courses placed in the curriculum serves the needs of both advanced and slow 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.Curriculum is providing opportunity towards Self learning to realize the expectations

Q7.Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable

Q8.Laboratory sessions are sufficient to improve the technical skills of students



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Q9. Inclusion of Minor Project/ Mini Projects improved the technical competency and leadership skills among the students

The highest score of 4.04 was given to the parameter “Course Contents of Curriculum are in tune with the Program Outcomes” followed by “Course Contents are designed to enable Problem Solving Skills and Core competencies” with a score of 4.01 and has been rated as Excellent.

It is clearly visible from the table that the parameters “Composition of Basic Sciences, Engineering, Humanities and Management Courses is a right mix and satisfiable” and “Laboratory sessions are sufficient to improve the technical skills of students” obtained average scores 3.96 and 3.92 respectively and has been rated as Very Good.

The parameters “Curriculum is providing opportunity towards Self learning to realize the expectations” and “Electives have enabled the passion to learn new technologies in emerging areas” obtained the scores of 3.83 and 3.74 respectively and has been rated as Very Good which clearly reflects the benefit towards the student expectations.

Average scores of 3.71, 3.68 and 3.51 were obtained by the parameters “Inclusion of Minor Project/ Mini Projects improved the technical competency and leadership skills among the students”, “Curriculum is providing opportunity towards Self learning to realize the expectations” and “Contact Hour Distribution among the various Course Components (LTP) is satisfiable”.

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 and the courses placed in the curriculum supports both the advanced learners as well as slow learners.

**Feedback from employers 2015-16 (Academic Year) - UG – B. Tech (IT)**

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

**Table 2: Analysis of feedback from employers 2015 – 16**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	66.7	22.2	0	11.1	0	4.445	Excellent
Q2	44.4	22.2	33.3	0	0	4.107	Excellent
Q3	66.7	0	22.2	0	11.1	4.112	Excellent
Q4	22.2	66.7	11.1	0	0	4.111	Excellent
Q5	44.4	22.2	33.3	0	0	4.107	Excellent

Q1.Course Contents of Curriculum are in tune with the Program Outcomes

Q2.Curriculum provides the scope for improving the required skills of IT and IT enabled Industry Demands

Q3.Professional and Open Electives are fulfilling the ever- evolving needs of IT industries

Q4.Tools and technologies described in the curriculum are enough to design and develop new applications of IT Industry.

Q5.Problem Solving and Soft Skills acquired by the students through the curriculum will enable them to be placed in IT Industry.

The highest score of 4.44 was given to the parameter “Course Contents of Curriculum are in tune with the Program Outcomes” followed by “Professional and Open Electives are fulfilling the ever-evolving needs of IT industries” with a score of 4.112 and has been rated as Excellent.

It is clearly visible from the table that the parameters “Tools and technologies described in the curriculum are enough to design and develop new applications of IT Industry” obtained score as 4.111 and has been rated as Excellent.

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The parameters “Curriculum provides the scope for improving the required skills of IT and IT enabled Industry Demands” and “Problem Solving and Soft Skills acquired by the students through the curriculum will enable them to be placed in IT Industry” obtained the score of 4.107 and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

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 Course Contents of Curriculum are in very much tune with the Program Outcomes and Open Electives are fulfilling the needs of IT industries and 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.

### Feedback from faculty 2015-16 (Academic Year) - UG – B. Tech (IT)

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

**Table 3: Analysis of feedback from faculty 2015 – 16**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	54.5	36.4	9.1	0	0	4.454	Excellent
Q2	40.9	50	4.5	4.5	0	4.27	Excellent
Q3	63.6	31.8	0	0	4.5	4.497	Excellent
Q4	59.1	22.7	18.2	0	0	4.409	Excellent
Q5	68.2	22.7	9.1	0	0	4.591	Excellent
Q6	54.5	27.3	9.1	4.5	4.5	4.225	Excellent
Q7	59.1	22.7	18.2	0	0	4.409	Excellent
Q8	63.6	22.7	9.1	0	4.5	4.406	Excellent
Q9	59.1	27.3	9.1	4.5	0	4.41	Excellent



- Q1.Course Contents of Curriculum are in tune with the Program Outcomes
- Q2.Course Contents enhance the Problem-Solving Skills and Core competencies
- Q3.Allocation of Credits to the Courses are satisfiable
- Q4.Contact Hour Distribution among the various Course Components (LTP) is Justifiable
- Q5.Electives enable the passion to learn new technologies in emerging areas
- Q6.Curriculum is providing opportunity towards Self learning
- Q7.Composition of Basic Sciences, Engineering, Humanities and Management Courses is satisfiable
- Q8.Courses with laboratory sessions are sufficient to improve the technical skills of students
- Q9.Inclusion of Minor/ Mini Projects improved the technical competency and leadership skills among the students

The highest score of 4.59 was given to the parameter “Electives enable the passion to learn new technologies in emerging areas “followed by “Allocation of Credits to the Courses are satisfiable” with a score of 4.49 and has been rated as Excellent.

It is also clearly visible from the table that the parameters “Course Contents of Curriculum are in tune with the Program Outcomes”, “Contact Hour Distribution among the various Course Components (LTP) is Justifiable” and “Composition of Basic Sciences, Engineering, Humanities and Management Courses is satisfiable” also obtained scores as 4.45, 4.40 and 4.40 respectively and has been rated as Excellent.

The parameters “Courses with laboratory sessions are sufficient to improve the technical skills of students” and “Inclusion of Minor/ Mini Projects improved the technical competency and leadership skills among the students” obtained the scores of 4.406 and 4.41 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Excellent score is also obtained for the parameters “Course Contents enhance the Problem-Solving Skills and Core competencies” as 4.27.



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 elective subjects enables the student to learn new technologies, course contents are very much tune with the program outcomes and 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.

#### **Feedback from Alumni 2015-16 (Academic Year) - UG – B. Tech (IT)**

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

**Table 4: Analysis of feedback from alumni 2015 – 16**

<b>Parameters</b>	<b>Strongly Agree</b>	<b>Agree</b>	<b>Moderate</b>	<b>Disagree</b>	<b>Strongly Disagree</b>	<b>Avg. Rating</b>	<b>Grade</b>
<b>Q1</b>	38.5	46.2	15.4	0	0	4.235	<b>Excellent</b>
<b>Q2</b>	46.2	15.4	38.5	0	0	4.081	<b>Excellent</b>
<b>Q3</b>	30.8	23.1	23.1	15.4	7.7	3.542	<b>Very Good</b>
<b>Q4</b>	38.5	15.4	30.8	15.4	0	3.773	<b>Very Good</b>
<b>Q5</b>	30.8	30.8	7.7	23.1	7.7	3.542	<b>Very Good</b>
<b>Q6</b>	38.5	15.4	23.1	7.7	15.4	3.542	<b>Very Good</b>
<b>Q7</b>	46.2	30.8	15.4	0	7.7	4.081	<b>Excellent</b>

Q1. Curriculum has paved a good foundation in understanding the basic engineering concepts

Q2. Course Contents of Curriculum are in tune with the Program Outcomes

Q3. Curriculum imparted all the required Job Oriented Skills

Q4. Professional and Open Electives of Curriculum served the technical advancements needed to serve in the industry

Q5. Tools and Technologies learnt during laboratory sessions has enriched the problem-solving skills





Q6.Ability to compete with your peers from other Universities

Q7.Current Curriculum is superior to your studied Curriculum

The highest scores of 4.23 was given to the parameters “Curriculum has paved a good foundation in understanding the basic engineering concepts” followed by “Course Contents of Curriculum are in tune with the Program Outcomes” with 4.08 and has been rated as Excellent.

It is clearly visible from the table that the parameters “Current Curriculum is superior to your studied Curriculum” and “Professional and Open Electives of Curriculum served the technical advancements needed to serve in the industry” obtained average scores 3.696 and 3.388 respectively and has been rated as Good and Very Good.

The parameters “Ability to compete with your peers from other Universities” obtained the scores of 3.157 and has been rated as Good which clearly reflects the benefit towards the student expectations.

Average scores of 3.08 were obtained by the parameters “Curriculum imparted all the required Job Oriented Skills” and “Tools and Technologies learnt during laboratory sessions has enriched the problem-solving skills”.

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 Curriculum has made a good foundation for student in understanding the basic engineering concepts, Professional and Open Electives of Curriculum makes the student to learn technical advancements needed to serve in the industry Curriculum contains all the required Job Oriented Skills.



**Feedback from parents 2015-16 (Academic Year) - UG – B. Tech (IT)**

The result derived in terms of percentage of parents with common views, average score, and ratings is presented in Table 5.

**Table 5: Analysis of feedback from parents 2015 – 16**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	34.3	48.6	17.1	0	0	4.172	Excellent
Q2	34.3	42.9	17.1	5.7	0	4.058	Excellent
Q3	17.1	65.7	11.4	0	5.7	3.882	Very Good
Q4	34.3	48.6	11.4	0	5.7	4.058	Excellent
Q5	34.3	48.6	11.4	5.7	0	4.115	Excellent

Q1. Curriculum enhances the intellectual aptitude of your ward

Q2. Curriculum realizes the personality development and technical skilling of your ward

Q3. Satisfaction about the Academic, Emotional Progression of your ward

Q4. Competency of your ward 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 IT and IT enabled industries

The highest score of 4.17 was given to the parameter “Curriculum enhances the intellectual aptitude of your ward” followed by “Course Curriculum is of the global standard and is in tune with the needs of IT and IT enabled industries” with a score of 4.11 and followed “Curriculum realizes the personality development and technical skilling of your ward” with a score of 4.05 by parents has been rated as Excellent.

It is clearly visible from the table that the parameters “Competency of your ward is on par with the students from other Universities/Institutes” and “Satisfaction about the Academic, Emotional Progression of your ward” obtained average scores 4.05 and 3.88 respectively and has been rated as Very Good.



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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 soft skills and problem-solving skills helps to improve the student's technical skills to place in IT Industry and the courses placed in the curriculum supports both the advanced learners as well as slow learners. Tools and technologies described in the curriculum are enough to design and develop new applications of IT Industry.

  
Chairman, CDMC