



**Minutes of CDMC Meeting**

17-05-2019

The members of Curriculum Design and Monitoring Committee for Master of Computer Applications (MCA) programme met on 17-05-2019 at ASF04, 'U' block, of VFSTR. The following members attended the meeting.

S.No	Members	Designation	Signatures
1.	Dr. K. V. Krishna Kishore Professor & Head	Chairman	
2.	Dr.N. Veeranjanyulu	Member	
3.	Mr.K.Praveen Kumar	Member	
4.	Mrs.K.Santhi sri	Member	

**Agenda of the meeting**

1. Analysis of the feedback collected from various stakeholders such as Faculty, Parents and Students, Alumni, and Employers during the academic year 2018-19.
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 could computing, etc.
2. Introduction of emerging courses like blockchain technologies, mobile application development, multimedia computing, etc and more focus on practical learning
3. The curriculum must be suitable for writing national competitive examinations and industry needs
4. Strengthen the coding skills by allocating at least 50% of course to laboratories in the curriculum
5. Suggested that it is essential to include the primitive operations on Queue in Unit-I. Better to remove searching techniques from this course and include them in any basic programming language course.



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6. It is better to include basic issues on data analytics in the first and second units of Data mining and data analytics course. From 3rd units, data analytics issues and practical exposure to various data analytics algorithms are more appropriate for IT students
7. Database design, data retrieval, and backup related issues need to discuss in the courses. Many industries are concentrating on database operations and backup issues.
8. Better to Include Embedded Systems and IoT related fundamental courses may include in the curriculum. Thereby students can understand the internal architecture of microprocessors and microcontrollers.
9. It is very essential to teach security issues in web and information. Introduce case studies related to security in the database, cloud, and IoT technologies.
10. The curriculum will be more practical oriented than theory and suitable for project-oriented learning

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 2018-19 (Academic Year) - PG – MCA

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 2018 – 19**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	64.3	35.7	0	0	0	4.643	Excellent
Q2	57.1	35.7	7.1	0	0	4.496	Excellent
Q3	57.1	14.3	21.4	7.1	0	4.211	Excellent
Q4	21.4	35.7	35.7	0	7.1	3.64	Very Good
Q5	28.6	50	21.4	0	0	4.072	Excellent
Q6	35.7	35.7	28.6	0	0	4.071	Excellent
Q7	21.4	64.3	14.3	0	0	4.071	Excellent
Q8	35.7	57.1	7.1	0	0	4.282	Excellent
Q9	14.3	57.1	21.4	0	7.1	3.712	Very Good

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

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

Q3.Courses placed in the curriculum serve 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.Courses with laboratory sessions are sufficient to improve the technical skills

Q8.Research Projects improved the technical competency and leadership skills

Q9.Tools and technologies described in the curriculum are enough to design and develop new applications.

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 ( $< 2$ )

The highest score of 4.643 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 4.496 and has been rated as Excellent.

It is clearly visible from the table that the parameters “Research Projects improved the technical competency and leadership skills” and “Courses placed in the curriculum serve the needs of both advanced and slow learners” obtained average scores 4.282 and 4.211 respectively and has been rated as Excellent.

The parameters “Electives have enabled the passion to learn new technologies in emerging areas” and “Inclusion of Minor Project/ Mini Projects improved the technical competency and leadership skills among the students” obtained the scores of 4.072 and 4.071 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Average scores of 4.071, 3.712 and 3.64 were obtained by the parameters “Electives have enabled the passion to learn new technologies in emerging areas”, “Tools and technologies described in the curriculum are enough to design and develop new applications” 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 alumni 2018-19 (Academic Year) - PG – MCA**

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

**Table 2: Analysis of feedback from alumni 2018 – 19**

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	95.5	4.5	0	0	0	4.955	Excellent
Q4	63.6	31.8	0	0	0	4.452	Excellent
Q5	95.5	4.5	0	0	0	4.955	Excellent
Q6	100	0	0	0	0	5	Excellent
Q7	100	0	0	0	0	5	Excellent

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 enriched the research abilities to pursue higher education in the thrust areas of Computer Science

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. Competing with your peers from other Universities

Q7. Curriculum is superior to 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 ( $< 2$ )



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The highest score of 5 was given to the parameter “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 a score of 5 and has been rated as Excellent.

It is clearly visible from the table that the parameters “Competing with your peers from other Universities” and “Curriculum is superior to your studied Curriculum” obtained average scores 5 and 5 respectively and has been rated as Excellent.

Average scores of 4.95, 4.95 and 4.45 were obtained by the parameters “Curriculum enriched the research abilities to pursue higher education in the thrust areas of Computer Science”, “Tools and Technologies learnt during laboratory sessions has enriched the problem-solving skills” and “Professional and Open Electives of Curriculum served the technical advancements needed to serve in the industry”.

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 faculty 2018-19 (Academic Year) - PG – MCA**

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 2018 – 19**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	66.7	33.3	0	0	0	4.667	Excellent
Q2	45.8	50	4.2	0	0	4.416	Excellent
Q3	75	20.8	0	0	4.2	4.624	Excellent
Q4	75	20.8	4.2	0	0	4.708	Excellent
Q5	75	16.7	8.3	0	0	4.667	Excellent
Q6	58.3	25	12.5	0	4.2	4.332	Excellent
Q7	66.7	16.7	16.7	0	0	4.504	Excellent
Q8	75	16.7	4.2	0	4.2	4.586	Excellent
Q9	75	16.7	4.2	4.2	0	4.628	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.Curriculum enable the research abilities of the students in thrust areas of Computer Science

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.Apply tools and technologies described in the curriculum are enough to design and develop new applications to serve the local needs.

Q8.Courses with laboratory sessions are sufficient to improve the technical skills of students

Q9.Inclusion of Minor Project/ Mini Projects improved the technical 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 ( $< 2$ )

The highest score of 4.708 was given to the parameter “Contact Hour Distribution among the various Course Components (LTP) is Justifiable” followed by “Course Contents of Curriculum are in tune with the Program Outcomes” with a score of 4.667 and has been rated as Excellent.

It is clearly visible from the table that the parameters “Electives enable the passion to learn new technologies in emerging areas” and “Curriculum enable the research abilities of the students in thrust areas of Computer Science” obtained average scores 4.667 and 4.628 respectively and has been rated as Excellent.

The parameters “Inclusion of Minor Project/ Mini Projects improved the technical competency and leadership skills among the students” and “Courses with laboratory sessions are sufficient to improve the technical skills of students” obtained the scores of 4.624 and 4.586 respectively and has been rated as Excellent which clearly reflects the benefit towards the student expectations.

Average scores of 4.504, 4.416 and 4.332 were obtained by the parameters “Apply tools and technologies described in the curriculum are enough to design and develop new applications to serve the local needs”, “Course Contents enhance the Problem-Solving Skills and Core competencies” and “Curriculum is providing opportunity towards self-learning”.

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 2018-19 (Academic Year) - PG – MCA**

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

**Table 4: Analysis of feedback from employers 2018 – 19**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	96.3	3.7	0	0	0	4.963	Excellent
Q2	88.9	11.1	0	0	0	4.889	Excellent
Q3	77.8	22.2	0	0	0	4.778	Excellent
Q4	59.3	40.7	0	0	0	4.593	Excellent
Q5	81.5	18.5	0	0	0	4.815	Excellent

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

Q2.Curriculum has 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 sufficient 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 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 ( $< 2$ )

The highest score of 4.96 was given to the parameter “Course Contents of Curriculum are in tune with the Program Outcomes” followed by “Curriculum has the scope for improving the required skills of IT and IT enabled Industry Demands” with a score of 4.88 and has been rated as Excellent.



Average scores of 4.81, 4.77 and 4.59 were obtained by the parameters “Problem Solving and Soft Skills acquired by the students through the curriculum will enable them to be placed in IT Industry”, “Professional and Open Electives are fulfilling the ever- evolving needs of IT industries” and “Tools and technologies described in the curriculum are sufficient to design and develop new applications of IT Industry”.

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 parents 2018-19 (Academic Year) - PG – MCA**

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 2018 – 19**

Parameters	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
<b>Q1</b>	42.9	35.7	14.3	0	7.1	4.073	<b>Excellent</b>
<b>Q2</b>	42.9	42.9	7.1	0	7.1	4.145	<b>Excellent</b>
<b>Q3</b>	35.7	50	7.1	0	7.1	4.069	<b>Excellent</b>
<b>Q4</b>	42.9	35.7	14.3	0	7.1	4.073	<b>Excellent</b>
<b>Q5</b>	42.9	21.4	28.6	0	7.1	3.93	<b>Very Good</b>

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 global standard and is in tune with the needs of IT and IT enabled industries



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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 ( $< 2$ )

The highest score of 4.145 was given to the parameter "Curriculum realizes the personality development and technical skilling of your ward" followed by "Competency of your ward is on par with the students from other Universities/Institutes" with a score of 4.073 and has been rated as Excellent.

Average scores of 4.073, 4.069, and 3.93 were obtained by the parameters "Curriculum enhances the intellectual aptitude of your ward", "Satisfaction about the Academic, Emotional Progression of your ward", and "Course Curriculum is of global standard and is in tune with the needs of IT and IT enabled industries".

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.

  
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