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

DEPARTMENT OF BIOTECHNOLOGY

Minutes of CDMC Meeting

10-04-2017

The members of Curriculum Design and Monitoring Committee for B.Tech. Bioinformatics programme met on 10-04-2017 at ASF04, 'U' block, of Vignan's University. The following members attended the meeting

S.No.	Member	Designation	Signature
1	Dr. D. Vijaya Ramu Associate professor & Head	Chairman	
2	Mr. D. John Babu	Member	
3	Mrs. M. Indira	Member	
4	Mr. A. Venkata Narayana	Member	
5	Dr. N. Jalaja	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 2016-17
2. Any point with the permission of Chair.

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

1. Introduce courses on emerging inter-disciplinary areas such as medical informatics and immuno-informatics

2. Connection between theory courses and laboratory is required for better understanding of the concept.
3. Knowledge related to drug development will be helpful in Insilco drug design.
4. Need of more practice sessions
5. Theory courses has to be integrated with Laboratories for better understanding of the concept.
6. Emphasis has to be given on programming courses to gain more understanding programming skills.
7. It is better to include the more bioinformatics courses such as drug design, Next generation sequencing analysis, molecular modelling, forensic genomics and metagenomics as core courses instead of elective courses to get more knowledge and expertise in specific domain.
8. Encouragement towards extracurricular activities is needed
9. Activities related to life skills and employability have to be included in the curriculum
10. The curriculum must be suitable for attempting national competitive examinations and industry needs

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.

A. Vij

Chairman, CDMC

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Annexure I

Feedback has been received from students on the following nine parameters:

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

Q2. The Bioinformatics Course Contents are designed to enrich laboratory Skills and Core competencies.

Q3. The Courses placed in the Bioinformatics curriculum serve the needs of both advanced and slow learners.

Q4. Contact Hour Distribution among the various Course Components (LTP) is Satisfiable.

Q5. The Electives offered will enrich the passion to learn new technologies in emerging areas.

Q6. The Curriculum provides an opportunity towards Self learning to realize the expectations.

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

Q8. Number of Laboratory sessions Integrated with Theory Courses in Bioinformatics have been sufficient to improve the technical skills.

Q9. Integration of Minor Project with Theory Courses offered in Bioinformatics have enhanced the technical competency and leadership skills in the management of biotech related firms.

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 (≥4); Very Good (≥3.5 & <4); Good (≥3 & <3.5); Moderate (>2 & <3) and Unsatisfactory (<2)

Feedback from Students 2016-17 (Academic Year) - UG – B. Tech (BI)

The results 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 students 2016 – 17

Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	92.8	7.2	0	0	4.928	Excellent
Q2	88.4	11.6	0	0	4.884	Excellent
Q3	4.3	92.8	2.9	0	4.014	Excellent
Q4	82.6	10.1	2.9	1.4	4.678	Excellent
Q5	2.9	95.7	1.4	0	4.015	Excellent
Q6	8.7	88.4	2.9	0	4.058	Excellent
Q7	84.1	13	1.4	0	4.781	Excellent
Q8	87	11.6	1.4	0	4.856	Excellent
Q9	88.4	5.8	5.8	0	4.826	Excellent

The highest score of 4.928 was given to the parameter namely "Course Contents of Curriculum are in tune with the Program Outcomes" followed by yet another parameter namely "The Bioinformatics Course Contents are designed to enrich laboratory Skills and Core competencies" with a score of 4.32 and both of them had been rated as Excellent.

It is clearly visible from the table that the parameters "Number of Laboratory sessions Integrated with Theory Courses in Bioinformatics have been sufficient to improve the technical skills" and "Integration of Minor Project with Theory Courses offered in Bioinformatics have enhanced the technical competency and leadership skills in the management of biotech related firms" obtained average scores of 4.856 and 4.826 respectively and had been rated as Excellent.

The parameters "The Composition of Basic Sciences, Engineering, Humanities and Management Courses in the curriculum is a right mix and satisfiable" and "Contact Hour Distribution among the various Course Components (LTP) is Satisfiable" obtained scores of 4.781 and 4.678 respectively and had been rated as Excellent which clearly reflects the compliance towards the student expectations.

Average scores of 4.058, 4.015 and 4.014 were obtained by the parameters namely "The Curriculum provides an opportunity towards Self learning to realize the expectations", "The Electives offered will enrich the passion to learn new technologies in emerging areas" and "The Courses placed in the Bioinformatics curriculum serve the needs of both advanced and slow learners". These parameters 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 and the courses placed in the curriculum supports both the advanced learners as well as slow learners.

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

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

Q2. The Course Contents along with the laboratory skills will enhance Informatics and Core competencies.

Q3. The allocation of Credits to the respective Courses is satisfiable.

Q4. The Contact Hour Distribution among the various Course Components (LTP) is Satisfiable

Q5. Electives will enable the passion to learn new technologies in emerging areas of Bioinformatics

Q6. The Curriculum provides an opportunity towards Self learning to realize the expectations.

Q7. The Composition of Basic Sciences, Engineering, Humanities and Management Courses in the curriculum is satisfiable?

Q8. The number of theoretical courses amalgamated with laboratory sessions is sufficient to improve the technical skills of students.

Q9. The integration of Minor Project with Theory Courses will improve 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 (≥4); Very Good (≥3.5 & <4); Good (≥3 & <3.5); Moderate (>2 & <3) and Unsatisfactory (<2).

Feedback from Faculty of the academic year 2016-17 - UG – B. Tech (BI)

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

Table 2: Analysis of feedback from Faculty 2016 – 17

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	52.4	38.1	9.5	0	0	4.429	Excellent
Q2	57.1	38.1	0	4.8	0	4.475	Excellent
Q3	57.1	42.9	0	0	0	4.571	Excellent
Q4	61.9	23.8	14.3	0	0	4.476	Excellent
Q5	57.1	42.9	0	0	0	4.571	Excellent
Q6	52.4	38.1	4.8	4.8	0	4.384	Excellent
Q7	66.7	28.6	4.8	0	0	4.623	Excellent
Q8	52.4	38.1	9.5	0	0	4.429	Excellent
Q9	61.9	28.6	4.8	4.8	0	4.479	Excellent

The highest score of 4.623 was given to the following parameters namely "The Composition of Basic Sciences, Engineering, Humanities and Management Courses in the curriculum are satisfiable" was rated as Excellent. A score of 4.571 was given to the following parameters namely "The allocation of Credits to the respective Courses is satisfiable" and "Electives will enable the passion to learn new technologies in emerging areas of Bioinformatics" were rated as Excellent. It is clearly visible from Table 2 that the following parameter "The integration of Minor Project with Theory Courses will improve the technical competency and leadership skills among the students" obtained average scores of 4.479, which had been rated as Excellent.

A score of 4.476 was given to the parameter namely "The Contact Hour Distribution among the various Course Components (LTP) is Satisfiable", was rated as Excellent. A score of 4.475 was given to the parameter namely "The Course Contents along with the laboratory skills will enhance Informatics and Core competencies", was rated as Excellent.

All the following parameters namely "The Course Contents of Bioinformatics Curriculum are in tune with the Program Outcomes", and "The number of theoretical courses amalgamated with laboratory sessions is sufficient to improve the technical skills of students". All these parameters had shown the score of 4.429 which were also rated as Excellent.

A score of 4.384 was given to the following parameters namely "The Curriculum provides an opportunity towards Self learning to realize the expectations" was rated as Excellent.

Feedback has been received from the parents on the following five parameters:

Q1. The theoretical courses and practical sessions offered in our Bioinformatics curriculum are satisfiable

Q2. The overall assessment of technical knowledge in Bioinformatics disciplines acquired by your ward who is pursuing his/her program in our institution is satisfiable.

Q3. The Academic and Emotional Progression of your ward are satisfying as per your expectations.

Q4. Competency of your ward in Bioinformatics is on par with the students from other Universities/Institutes.

Q5. Course Contents of our Bioinformatics Curriculum are in tune with the Industry demand.

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 (≥4); Very Good (≥3.5 &<4); Good (≥3 &<3.5); Moderate (>2 &<3) and Unsatisfactory (<2)

Feedback from Parents of the academic year 2016-17 - UG – B. Tech (BI)

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

Table 3: Analysis of feedback from Parents 2016 – 17

	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	21.6	78.4	0	0	0	4.216	Excellent
Q4	97.3	2.7	0	0	0	4.973	Excellent
Q5	83.8	16.2	0	0	0	4.838	Excellent

The highest score of 5.00 was given to the following parameters namely "The theoretical courses and practical sessions offered in our Bioinformatics curriculum are satisfiable" and "The overall assessment of technical knowledge in Bioinformatics disciplines acquired by your ward that is pursuing his/her program in our institution is satisfiable" all of which were rated as Excellent.

It is clearly visible from the Table I that the parameter "Competency of your ward in Bioinformatics is on par with the students from other Universities/Institutes" obtained average scores of 4.973 has been rated as Excellent.

The parameter namely "Course Contents of our Bioinformatics Curriculum are in tune with the Industry demand" had shown the score of 4.838 which clearly reflects the satisfaction of the parent towards the curriculum. This also has been rated as Excellent.

The parameter namely "The Academic and Emotional Progression of your ward are satisfying as per your expectations" had shown the score of 4.216 which clearly reflects the satisfaction of the parent towards the development of academic and emotional aspects of their wards. This also has been rated as Excellent.

HOD, BT