



VIGNAN'S

Foundation for Science, Technology & Research

(Deemed to be University)

-Estd. u/s 3 of UGC Act 1956

DIVISION OF CHEMISTRY

DEPARTMENT OF SCIENCES & HUMANITIES

Date: 20-08-2021

Minutes of the Curriculum Design and Monitoring Committee Meeting (CDMC)

M.Sc. Chemistry

The 1st meeting of Curriculum Design and Monitoring Committee meeting for the M.Sc. Chemistry program is held on 20th August 2021 at HoD Chamber, Department of Sciences & Humanities, VFSTR.

The following members attended the CDMC meeting.

- | | | |
|---|------------------|---------------------|
| 1. Dr. N. Srinivasu, Professor & Head of the Department, S&H, VFSTR | - Chairman, CDMC | <i>N. Srinivasu</i> |
| 2. Dr. Koya Prabhakara Rao, Professor, Head, Division of Chemistry, VFSTR | - Member | <i>[Signature]</i> |
| 3. Dr. D. Nagaraju, Professor, Division of Chemistry, VFSTR | - Member | <i>[Signature]</i> |
| 4. Dr. N. Satya Sree, Professor, Division of Chemistry, VFSTR | - Member | <i>[Signature]</i> |

Agenda of the meeting:

1. Analysis of the feedback collected from various stakeholders such as Students, Faculty and Employers during the academic year 2020-21.
2. Any point with the permission of Chair.



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The following are the important suggestions received from various stakeholders:

1. In some courses the syllabus needs to be reduce.
2. Syllabus is huge, we can remove few topics which are at fundamental level, so that we can incorporate advanced level topics in-order to enrich the students with advanced learning skills.
3. To adopt and improve the self-learning, motivate the students to register in a few NPTEL courses and also department can offer the Honors degree depends on the merit.
4. English course for the M.Sc. students is suggested in order to improve their communication skills.
5. More time for end semester exam preparation/revision sessions are suggested.

Detailed feedback analysis is enclosed as **Annexure – I**.

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

N. Srinivas

Chairman, CDMC



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Annexure – I

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

- Q1.** The Course contents of M.Sc. Chemistry curriculum are in tune with the program outcomes?
- Q2.** The M.Sc. Chemistry course contents are designed to enhance the student's scientific knowledge, improve the laboratory Skills and core competencies?
- Q3.** Courses placed in the M.Sc. Chemistry curriculum serve the needs of aspiring students for higher education.
- Q4.** Contact hour distribution among the various course components (LTP) is Satisfiable?
- Q5.** The Electives offered have enabled the passion to learn new methods and technologies in emerging areas?
- Q6.** The Curriculum provides an opportunity towards Self learning to realize the expectations?
- Q7.** The Composition of theory and lab Courses and internship programs is a right mix and satisfiable?
- Q8.** The number of theoretical courses and laboratory sessions offered are sufficient to improve the laboratory skills?
- Q9.** Student seminars, orientation programs, internship programs and synthetic skills acquired through the course contents will enable you to be placed in research laboratories.

The categorization of rating is as follows:

Strongly Agree	-	5
Agree	-	4
Moderate	-	3
Disagree	-	2
Strongly Disagree	-	1

Feedback analysis is carried based on average satisfaction rating. It is as follows:

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

Feedback from students AY 2020–21 – PG – M.Sc. Chemistry:

The results derived in terms of percentage of students with consensus views, average score, and rating are presented in Table 1.

Table 1. Analysis of feedback from students (AY 2020–21)

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade ¹
Q1	50	50	0	0	0	4.5	Excellent
Q2	66.7	33.3	0	0	0	4.667	Excellent
Q3	91.7	8.3	0	0	0	4.917	Excellent
Q4	66.7	8.3	25	0	0	4.417	Excellent
Q5	75	25	0	0	0	4.75	Excellent
Q6	58.3	41.7	0	0	0	4.583	Excellent
Q7	50	50	0	0	0	4.5	Excellent
Q8	58.3	33.3	8.3	0	0	4.496	Excellent
Q9	58.3	41.7	0	0	0	4.583	Excellent

- The highest score of **4.917** was obtained for the parameter (**Q3**) namely “ Courses placed in the M.Sc. Chemistry curriculum serve the needs of aspiring students for higher education” is rated as excellent. It clearly shows that M.Sc. Course offered is highly helpful for the students to enrich their knowledge and provides the way to enter into the higher education in various emerging areas of research.
- It is very clear from the Table 1 that the parameters **Q5** (The Electives offered have enabled the passion to learn new methods and technologies in emerging areas); **Q2** (The M.Sc. Chemistry course contents are designed to enhance the student’s scientific knowledge, improve the laboratory Skills and core competencies) are secured score of **4.75 and 4.667** respectively. **Q6** (The Curriculum provides an opportunity towards Self learning to realize the expectations) and **Q9** (Student seminars, orientation programs, internship programs and synthetic skills acquired through the course contents will enable you to be placed in research laboratories.) are scored **4.583** rating and therefore, all of them are rated as excellent.

- The parameters **Q1** (The Course contents of M.Sc. Chemistry curriculum are in tune with the program outcomes) and **Q7** (The Composition of theory and lab Courses and internship programs is a right mix and satisfiable) are secured score of **4.5** and parameter **Q8** (The number of theoretical courses and laboratory sessions offered are sufficient to improve the laboratory skills) attained **4.496** rating.
- The parameter **Q4** (Contact hour distribution among the various course components (LTP) is Satisfiable) secured lowest score of **4.417** compared to all other parameters. However, still the attained value is in the range of excellent rating.

Time to time meeting 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 is in good compliance with program outcomes, Introduction of computers in chemistry, Introduction of student seminars and Internship programs in the curriculum will certainly help the students to improve their professional and technical skills.

Feedback has been received from the employers on the following six parameters.

- Q1.** The course contents of M.Sc. Chemistry curriculum are in tune with the program outcomes?
- Q2.** The course contents are relevant with the emerging areas of sciences and chemical Industry demands.
- Q3.** The professional electives offered to students are in-line with the technology advancements in the science related firms.
- Q4.** Applicability of the tools and instrumental techniques for chemical analysis described in the curriculum will be enough to practice in Industry?
- Q5.** Professional electives will enrich the passion to learn new methodologies & instrumental techniques in emerging areas of chemical sciences?
- Q6.** Student seminars, orientation programs, internship programs and synthetic skills acquired by the students through the course contents will enable them to be placed in research laboratories?

The categorization of rating is as follows:

Strongly Agree	-	5
Agree	-	4
Moderate	-	3
Disagree	-	2
Strongly Disagree	-	1

Feedback analysis is carried based on average satisfaction rating. It is as follows:

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

Feedback from employers AY 2020–21 – PG – M.Sc. Chemistry:

The results derived in terms of percentage of employers with consensus views, average score, and rating are presented in Table 2.

Table 2. Analysis of feedback from employers (AY 2020–21)

	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	50	50	0	0	0	4.5	Excellent
Q4	0	100	0	0	0	4	Excellent
Q5	50	50	0	0	0	4.5	Excellent

- The highest score of **5.0** was obtained for the parameters **Q1** (The course contents of M.Sc. Chemistry curriculum are in tune with the program outcomes) and **Q2** (The course contents are relevant with the emerging areas of sciences and chemical Industry demands) are rated as excellent.
- The parameters **Q3** (The professional electives offered to students are in-line with the technology advancements in the science related firms) and **Q6** (Student seminars, orientation programs, internship programs and synthetic skills acquired by the students through the course contents will enable them to be placed in research laboratories) are secured score of **4.5**.
- The parameter **Q4** (Applicability of the tools and instrumental techniques for chemical analysis described in the curriculum will be enough to practice in Industry) secured lowest score of **4.0** compared to all other parameters. However, still the attained value is in the range of excellent rating.

Feedback has been received from the faculty on the following nine parameters.

- Q1.** The Course contents of M.Sc. Chemistry curriculum are in tune with the program outcomes?
- Q2.** The Course contents will enhance the synthetic laboratory skills in research, academia and industry competencies.
- Q3.** The allocation of Credits to the Courses are satisfiable?
- Q4.** Contact hour distribution among the various course components (LTP) is Satisfiable?
- Q5.** Professional electives will enrich the passion to learn new methodologies; instrumental techniques in emerging areas of Chemical Sciences?
- Q6.** The curriculum will provide opportunity towards Self learning to realize the expectations along with the communication and computation skills?
- Q7.** The composition of core subjects, lab sessions and internship programs are satisfiable?
- Q8.** The number of theoretical courses and laboratory sessions offered are sufficient to improve the laboratory skills of students?
- Q9.** The offered internship programs will improve the technical, professional competency and leadership skills among the students?

The categorization of rating is as follows:

Strongly Agree	-	5
Agree	-	4
Moderate	-	3
Disagree	-	2
Strongly Disagree	-	1

Feedback analysis is carried based on average satisfaction rating. It is as follows:

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

Feedback from Faculty AY 2020–21 – PG – M.Sc. Chemistry:

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

Table 3. Analysis of feedback from faculty (AY 2020–21)

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	90	10	0	0	0	4.9	Excellent
Q2	90	10	0	0	0	4.9	Excellent
Q3	90	10	0	0	0	4.9	Excellent
Q4	80	20	0	0	0	4.8	Excellent
Q5	90	10	0	0	0	4.9	Excellent
Q6	90	10	0	0	0	4.9	Excellent
Q7	80	20	0	0	0	4.8	Excellent
Q8	90	10	0	0	0	4.9	Excellent
Q9	80	20	0	0	0	4.8	Excellent

- The highest score of **4.9** was obtained for the parameters **Q1** (The Course contents of M.Sc. Chemistry curriculum are in tune with the program outcomes) **Q2** (The Course contents will enhance the synthetic laboratory skills in research, academia and industry competencies.) **Q3** (The allocation of Credits to the Courses are satisfiable) **Q5** (Professional electives will enrich the passion to learn new methodologies & instrumental techniques in emerging areas of Chemical Sciences) **Q6** (The curriculum will provide opportunity towards Self learning to realize the expectations along with the communication and computation skills) and **Q8** (The number of theoretical courses and laboratory sessions offered are sufficient to improve the laboratory skills of students) are rated as excellent.
- The parameters **Q4** (Contact hour distribution among the various course components (LTP) is Satisfiable); **Q7** (The composition of core subjects, lab sessions and internship programs are satisfiable) and **Q9** (The offered internship programs will improve the technical, professional competency and leadership skills among the students) are scored **4.8** rating and therefore, all of them are rated as excellent.
- All the suggestions are considered and planned to implement in the coming academic year.

N. Srinivas
Chairman, CDMC