VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be University)
-Estd. u/s 3 of UGC Act 1956

Department of Chemistry

School of Applied Science and Humanities

Action Taken Report on M.Sc. Chemistry Program R20 Feedback Implemented in R22 Introduced in 2023-2024

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:

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

Feedback from students AY 2022–23 – 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 2022–23)

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	63	28	0	0	0	4.31	Excellent
Q2	75	17	0	0	0	4.36	Excellent
Q3	72	8	12	0	0	4.28	Excellent
Q4	70	20	4	0	0	4.32	Excellent
Q5	85	5	4	0	0	4.47	Excellent
Q6	76	12	4	0	0	4.39	Excellent
Q7	72	8	12	0	0	4.28	Excellent
Q8	68	22	4	0	0	4.32	Excellent
Q9	85	5	4	0	0	4.47	Excellent

Major Suggestions by students:

1. Introduce internship program for M.Sc. Chemistry students also
2. Need additional classes for organic chemistry course in comparison to other subjects.
3. If feasible, include more CSIR classes into the regular timetable.

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Feedback has been received from the employers on the following five 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. Professional electives will enrich the passion to learn new methodologies & instrumental techniques in emerging areas of chemical sciences?

Q5. 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 2022–23 – 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.

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Table 2. Analysis of feedback from employers (AY 2022–23)

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	72	29	0	0	0	4.72	Excellent
Q2	72	29	0	0	0	4.72	Excellent
Q3	86	14	0	0	0	4.86	Excellent
Q4	86	14	0	0	0	4.86	Excellent
Q5	95	5	0	0	0	4.92	Excellent

Major suggestions by Employers:

1. Give more preference to practical/project-oriented courses in M.Sc. curriculum as per the NEP 2020.
2. Introduce more elective/add-on courses at advanced level with applications relevant to industrial and environmental issues.

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 2022–23 – 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 2022–23)

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	79	21	0	0	0	4.7	Excellent
Q2	82	18	0	0	0	4.8	Excellent
Q3	92	8	0	0	0	4.91	Excellent
Q4	92	8	0	0	0	4.91	Excellent
Q5	93	7	0	0	0	4.93	Excellent
Q6	85	15	0	0	0	4.85	Excellent
Q7	90	10	0	0	0	4.9	Excellent
Q8	92	8	0	0	0	4.91	Excellent
Q9	98	2	0	0	0	4.97	Excellent

Major suggestions by Faculty:

1. M.Sc. curriculum should emphasis more on self-learning and critical thinking and provide more in sights on advanced level topics either in core courses/advanced elective courses.
2. Give more weightage to the field visits or industrial tours.
3. Assessment methods needs to be improved.

Feedback has been received from the Alumni on the following seven parameters.

Q1. The curriculum laid a good foundation in understanding the advanced chemistry concepts in M.Sc. Program?

Q2. The course contents of M.Sc. Chemistry curriculum are in compliance with the program outcomes?

Q3. The M.Sc. Chemistry curriculum imparts all the required job-oriented skills?

Q4. Professional electives of curriculum suit to the technical and scientific advancements needed to serve in the academia, research, core chemical & pharma industries?

Q5. The tools and methodologies learnt during laboratory sessions will enrich the synthetic & analytical skills to survive in chemical and pharma industries?

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Q6. While comparing with your peers from other Universities, our curriculum provided technical skills?

Q7. Current curriculum is superior to your studied curriculum?

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)**

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Table 4. Analysis of feedback from Alumni (AY 2022–23)

	Strongly Agree	Agree	Moderate	Disagree	Strongly Disagree	Avg. Rating	Grade
Q1	95	5	0	0	0	4.94	Excellent
Q2	96	4	0	0	0	4.96	Excellent
Q3	97	3	0	0	0	4.97	Excellent
Q4	98	2	0	0	0	4.98	Excellent
Q5	95	5	0	0	0	4.94	Excellent
Q6	96	4	0	0	0	4.94	Excellent
Q7	95	5	0	0	0	4.94	Excellent

Major suggestions by Alumni:

1. Need to incorporate branch specific topics/courses to promote skill development and Employability.
2. To adopt and improve the self-learning, motivate the students to register for online certification courses and give some credits to those courses.
3. Provide flexible timings for classwork and laboratory to promote more research/project-oriented learning.

All the suggestions are considered and planned to implement in the coming academic year.

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Action Taken Report on the Feedback received for M.Sc. Chemistry Program (AY 2022-23)

Stakeholder	Comments / Suggestions	Action Taken or Suggested
Employers	1. Give more preference to practical/project-oriented courses in M.Sc. curriculum as per the NEP 2020. 2. Introduce more elective/add-on courses at advanced level with applications relevant to industrial and environmental issues.	M.Sc. Curriculum modified as per NEP 2020 and given more preference to practical/project-oriented courses.
Students	1. Need additional classes for organic chemistry course in comparison to other subjects. 2. If feasible, include more CSIR classes into the regular timetable.	Introduced additional tutorial sessions for every course and more weightage given to the CSIR/Gate Classes
Faculty	1. M.Sc. curriculum should emphasis more on self-learning and critical thinking and provide more in sights on advanced level topics either in core courses/advanced elective courses. 2. Give more weightage to the field visits or industrial tours. 3. Assessment methods needs to be improved.	M.Sc. Curriculum modified as per NEP 2020 and given more preference to practical/ project-oriented courses. Furthermore, continuous assessment method is implemented in R22 M.Sc. Chemistry program

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Alumni	1. Need to incorporate branch specific topics/courses to promote skill development and Employability. 2. To adopt and improve the self-learning, motivate the students to register for online certification courses and give some credits to those courses. 3. Provide flexible timings for classwork and laboratory to promote more research/project-oriented learning.	Introduced more branch specific topics/courses and more open elective courses are introduced. In R22 curriculum, department laboratories will remain open till 7.30 pm faculty and lab technician will be assigned to guide them.

Signature of the HOD

Signature of the Dean