FEEDBACK ANALYSIS

2025-2026

Department of Chemistry

Feedback process

Developing a structured feedback forms

↓

Collection of feedback from different stakeholders

↓

Compilation and analysis of feedback forms

↓

Action taken on feedback forms

↓

Recommendations to Curriculum Development Cell (CDC)

Department of Chemistry
CHRIST (Deemed to be University), Bangalore – 560029

Curriculum feedback analysis for the academic year 2025 - 2026

The following report presents an analysis of the curriculum feedback received from various stakeholders, including students, teachers, alumni, and industry experts. The feedback reflects a strong convergence toward modernization, research integration, industry alignment, and AI-driven transformation of the Chemistry curriculum.

Key Areas of Feedback and Recommendations

A) Student Feedback

- Students expressed a strong demand for the inclusion of Artificial Intelligence and Machine Learning in Chemistry.
- There is repeated demand for Computational and Theoretical Chemistry to be incorporated into the curriculum.
- Students prefer more practical exposure compared to purely theoretical learning.
- There is strong demand for hands-on training with advanced analytical instruments.
- Students want opportunities to handle individual instruments under faculty supervision.
- More research-oriented and skill-based components are requested in the curriculum.
- Students recommended the inclusion of modern methodologies and advanced techniques used in industry and academia.
- Competitive exam preparation for CSIR-NET and GATE should be integrated into teaching.
- Case-study-based and industry-focused specialization courses are desired.
- Students suggested adding training on soft skills and interview preparation.
- There is a need for more industrial visits and internship exposure.
- Students recommended increasing the duration of the dissertation or internship components.
- Some students observed repetition of topics and suggested restructuring the curriculum.
- Concerns were raised regarding the heavy workload in certain semesters.

➢ Cosmetic, pharmaceutical, and job-oriented chemistry topics were suggested for inclusion.

B) Faculty members Feedback

➢ Faculty recommended introducing AI-related theory and practical courses.
➢ Faculty suggested the inclusion of Nanochemistry and emerging advanced chemistry domains.
➢ Faculty emphasized integrating research-based projects into the curriculum.
➢ Faculty members suggested AI-based evaluation components.
➢ Faculty recommended advanced spectroscopy and physical chemistry modules.

C) Alumni Feedback

➢ Alumni suggested integrating competitive-exam-oriented training into the curriculum.
➢ Alumni recommended upgrading analytical and practical components to match industry standards.
➢ Alumni emphasised exposure to advanced instrumentation techniques.

D) Industry Experts Feedback

➢ Industry experts recommended including formulation chemistry and surfactant basics.
➢ Industry emphasized the need for regulatory affairs, GLP, GMP, and ISO-related knowledge.
➢ Industry suggested including quality management systems and audit awareness training.
➢ The industry recommended knowledge of SOP preparation and documentation standards.
➢ Industry highlighted the importance of safety training and industrial compliance education.
➢ The industry suggested incorporating SAP and industrial workflow experience.
➢ Industrial experts recommended strengthening catalyst applications and industrial synthetic techniques.

- ➤ Industry requested training in purification techniques and modern chromatographic advancements.
- ➤ Knowledge of troubleshooting during synthesis was highlighted as important by the industry.
- ➤ Industry emphasized awareness of water contamination and impurity analysis in drugs and food.
- ➤ Intellectual property awareness and commercialization techniques were recommended.
- ➤ Industry experts strongly supported the inclusion of AI-related applications in chemistry.

Actions to be Taken Based on Feedback

Based on stakeholders' feedback, the BOS modified and approved the curriculum to accommodate the most relevant and critical changes. The following courses have been included in the syllabus based on the input.

Undergraduate Curriculum

- ➤ Bachelor of Science (Chemistry, Zoology Honours / Honours with Research) has been introduced with a Minor in Forensic Science to promote interdisciplinary learning and applied exposure.
- ➤ Artificial Intelligence related discussions and applications are embedded within theory courses, case studies, and assessments.
- ➤ A mandatory 30-day Undergraduate Internship has been introduced to improve industry and laboratory exposure.
- ➤ Skill Enhancement Courses have been introduced to improve employability and applied knowledge:
  - CHE161A-1 – Cosmetic Chemistry
  - CHE161C-1 – Soil and Water Analysis
  - CHE261-3 – Pharmaceutical Chemistry
- ➤ Computational exposure and basic AI-linked components are integrated through assessment and assignments.
- ➤ CHE302-6 – Nanomaterials for Energy Applications has been incorporated to address emerging research and sustainability trends.

Postgraduate Curriculum

➢ At the Postgraduate level, MCH481-2 – Computers for Chemists has been introduced across all four specializations, including components on AI-Assisted Molecular Structure Determination.

➢ Analytical components under MCH404-1 – Analytical Chemistry integrate modern analytic techniques.

➢ MCH441C – Chemistry in Industry has been introduced incorporating industry expert recommendations including regulatory awareness, quality management systems, SOP standards, GLP, GMP, ISO exposure, industrial troubleshooting, synthetic challenges, purification techniques, catalyst applications, safety practices, and commercialization awareness.

➢ Hands-on training with advanced analytical instruments has been strengthened across multiple practical courses.

➢ Industrial exposure has been enhanced through a mandatory 6-month PG Internship component.

➢ The duration and academic weightage of research training have been strengthened through the mandatory Research Project – MOC482 Project.

➢ A structured 6-month PG Internship has been introduced to enhance applied research and industry readiness.

➢ Industrial-relevant synthetic methodologies and purification techniques are introduced in organic and analytical modules.

Additional Strategic Academic Enhancements

➢ AI-related content and computational tools are introduced progressively within theory and practical components.

➢ Competitive exam-oriented problem-solving incorporated within CIA and tutorial hours.

➢ Increased emphasis on advanced spectroscopy, chromatography, and electrochemistry.

➢ Sustainability and green chemistry are integrated at both UG and PG levels.

➢ Industry-oriented components, such as regulatory awareness, documentation practices, and quality systems, are covered in relevant courses.

➢ Greater focus on hands-on instrument exposure under faculty supervision.

> ➢ Strengthened dissertation and project evaluation framework to enhance research competency.

Conclusion

The revised curriculum reflects a structured transition toward AI-integrated, research-driven, sustainability-focused, and industry-aligned chemical education while preserving strong theoretical foundations required for competitive examinations and higher studies.
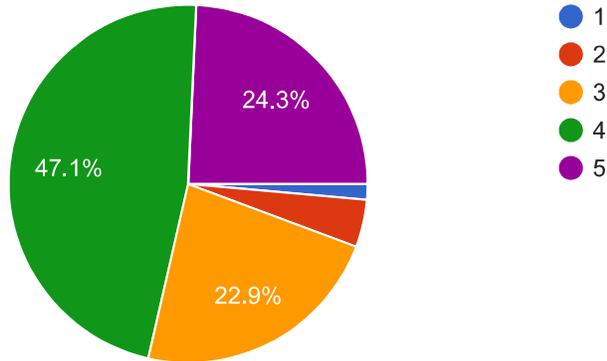
Student Feedback 2026

70 responses

Publish analytics

Does the content of the curriculum satisfy the stated objectives and learning outcomes?

Copy

70 responses

- 1
- 2
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- 5

24.3%

47.1%

22.9%

Does the curriculum cover advanced topics?

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70 responses

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42.9%

17.1%

11.4%

24.3%
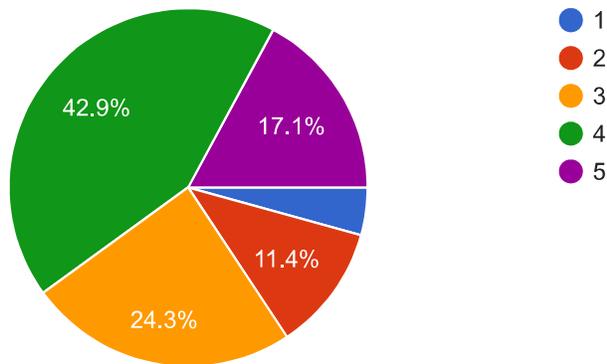
Whether the curriculum enhances your knowledge and skills in the relevant domain?

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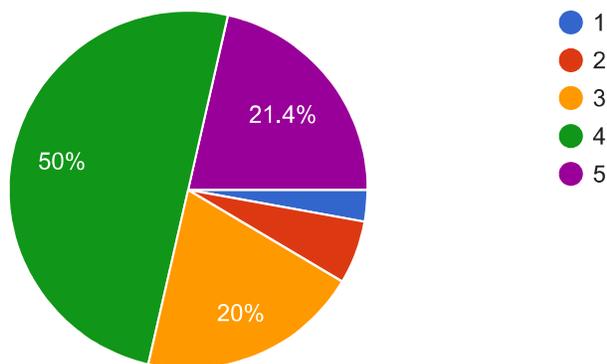
Is the curriculum effective in developing critical/ analytical thinking?

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70 responses

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22.9%
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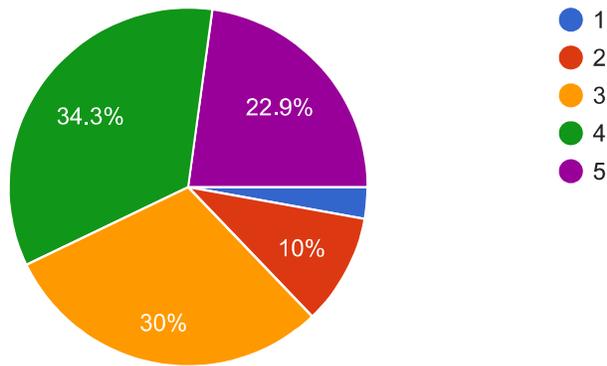
Are the reference materials relevant to the content of the curriculum?

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70 responses

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21.4%
25.7%
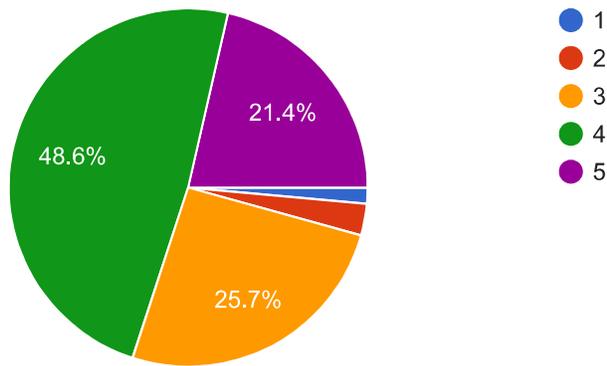
Does the curriculum orient towards higher education?

Copy

70 responses

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40%
21.4%
11.4%
24.3%
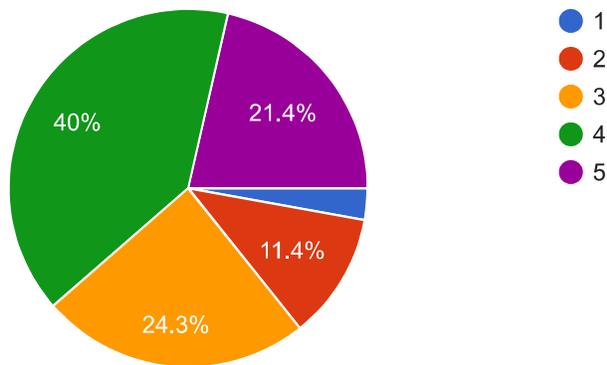
Does the curriculum enable the students to apply their knowledge in real life situations?   Copy

70 responses

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37.1%
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41.4%
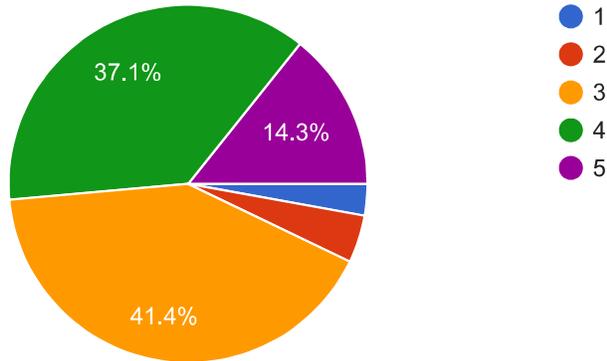
Is employability given weightage in the design and development of curriculum?   Copy

70 responses

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37.1%
12.9%
14.3%
34.3%

Does the curriculum promote self-study and attitude of research?   Copy

70 responses

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48.6%
22.9%
22.9%
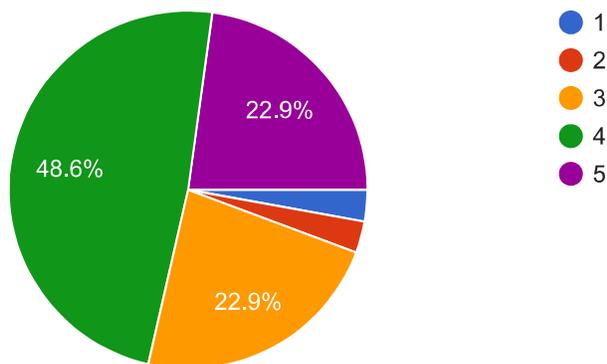
Does the curriculum meet your overall expectations?

Copy

70 responses

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47.1%

18.6%

31.4%
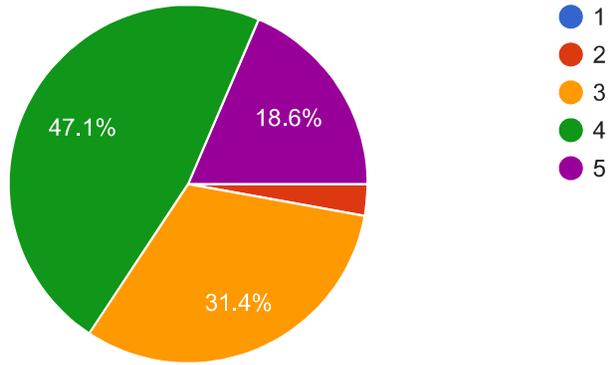
Any suggestions/additions or incorporation to the syllabus/curriculum

70 responses

No

Nil

Nothing

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-

Nothing it's good but 3rd semesters end sem exam was packed with less study leaves that's little bit hard to focus on each subjects

More advanced topics related to compititive exams and internships

Computational Chemistry

If we are getting more practical knowledge more than the theoretical studies, it will be more beneficial for students

Including more research oriented topics would be better.

Include advanced topic.

I would like to suggest incorporating more research-oriented and skill-based components into the curriculum to enhance both academic depth and industry relevance. Including elements such as computational tools, sustainability-focused chemistry topics, research methodology training, and greater exposure to modern analytical techniques would better prepare students for higher studies and professional careers. Strengthening interdisciplinary learning and practical applications would further improve the overall quality and global competitiveness of the program.

Better strategy for competitive exam preparation

NIL

The syllabus can be improved by explaining basic concepts more clearly, adding more theory discussions, and including recent updates in the subject to help students understand the topic

better. It can also include more practical classes, small projects, case studies so students can apply what they learn in real-life situations.

No suggestions, everything is good.

4 th sem was fine but third sem was so much packed and hectic...if that can be a bit more relaxed it would be good

More hands-on experience on instruments

Nothing

Hands-on experiences in advanced analytical instruments

Nio

Incorporate more of practical sessions (instrumentation, advanced analytical techniques etc.). More hands-on workshops could be conducted.

Artificial Intelligence in Chemistry

More Case Study based syllabus and activities specifically for an Industry Focused Specialisation. More Soft Skills Training for Interview Prepration and Self Confidence.

Computational chemistry can be included

Its good soo far

Some topics in my specialization curriculum felt repetitive. But overall it covered all the important topics needed in analytical chemistry. I can apply my theoretical knowledge to my internship at an industry.

I would like to respectfully suggest that, instead of repeating some similar topics, the curriculum could incorporate more advanced techniques and modern methodologies that are widely used in both industry and academia. Including such content would enhance practical knowledge, improve research exposure, and better prepare students for professional and academic careers.

More hands on experience with the advance Instruments

Inclusion of AI/ML, computational and theoretical chemistry, more industrial visits and more solving of CSIR oriented questions

NA

Longer Duration for the Dissertation/Internship could be added.

No suggestion I learn lot of things christ university thank you for my dear teacher

More practical exposure and hands on experience in instrumentation/ practical

More of interactive sessions

Cosmetic science is also intertwined with organic chemistry. A lot of people would love to get into that, but there is rare exposure (academically) to that aspect. Just basics would be great point to start, and one can always pick up and self-study from there onwards.

It wpuld be great if students are allowed to handle the instruments..individually too under the supervision of faculty..rather than one student trying it out infront the class..

None

Bil

AI in chemistry can be added to the course plan which is very relevant today.

can include more job-oriented topics and skills.

Computational chemistry, cosmetic chemistry and pharmaceutical chemistry

Artificial Intelligence in Chemistry, and a Longer Duration for the Dissertation/Internship

No suggestion

More practical approach is required

Google Forms

Does the curriculum satisfy the stated objectives and learning outcomes?   ⧉ Copy
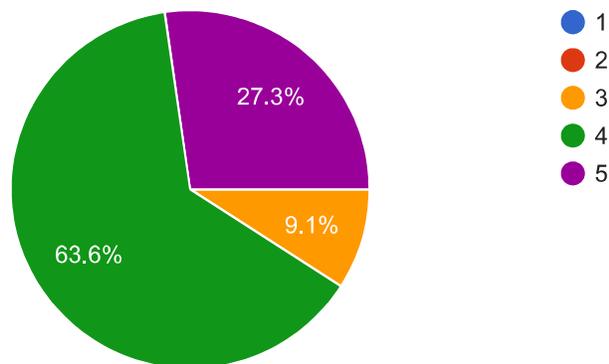
11 responses

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- 🟣 5

18.2%

81.8%
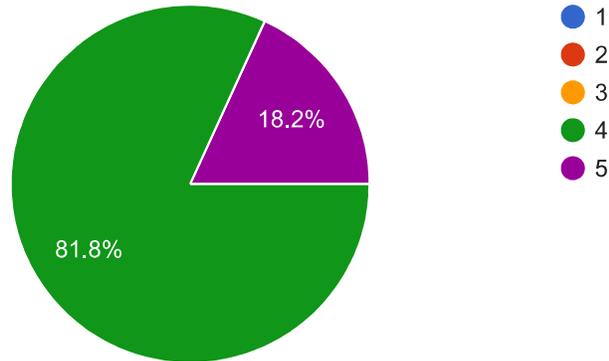
Do you have continuous processes to propose, modify, suggest and incorporate new topics in the curriculum?   ⧉ Copy

11 responses

- 🔵 1
- 🔴 2
- 🟠 3
- 🟢 4
- 🟣 5

27.3%

9.1%

63.6%

Is the curriculum effective in developing independent thinking?   ⧉ Copy
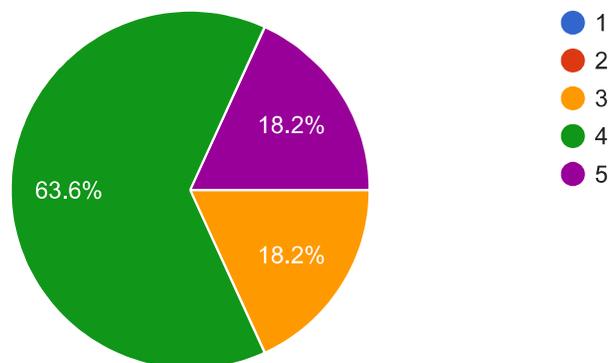
11 responses

- 🔵 1
- 🔴 2
- 🟠 3
- 🟢 4
- 🟣 5

18.2%

63.6%

18.2%

Head
Department of Chemistry
CHRIST (Deemed to be University)
Bengaluru - 560 029

Does the departmental level expert committee meet to review the curriculum?

11 responses

Copy

- 1
- 2
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36.4%

63.6%
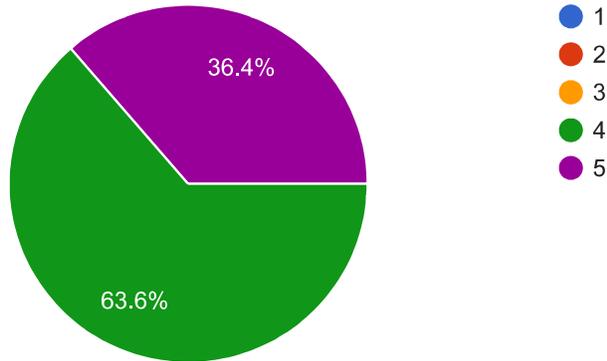
Does the curriculum enhance your knowledge in the subject area?

11 responses

Copy

- 1
- 2
- 3
- 4
- 5

18.2%

9.1%

72.7%
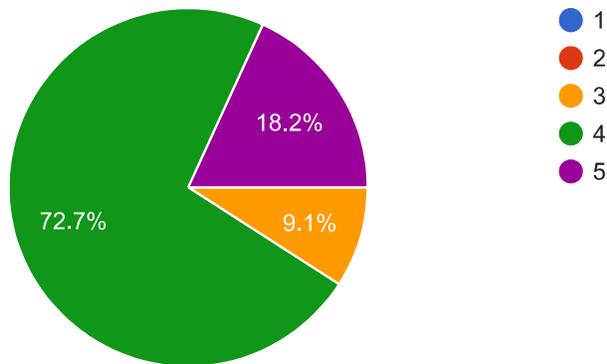
Does the curriculum enable the students to apply their knowledge in real life?

11 responses

Copy

- 1
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100%
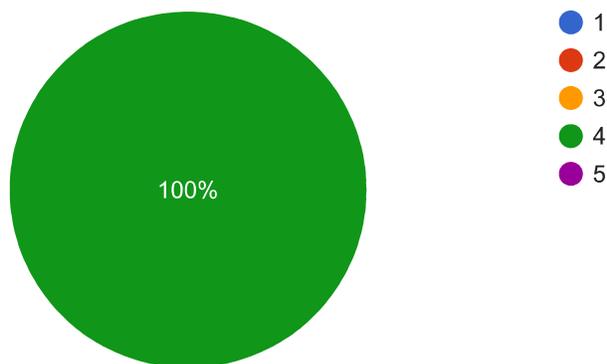
Does the curriculum demand the teachers for research inclusive teaching?

11 responses

- ● 1
- ● 2
- ● 3
- ● 4
- ● 5

100%
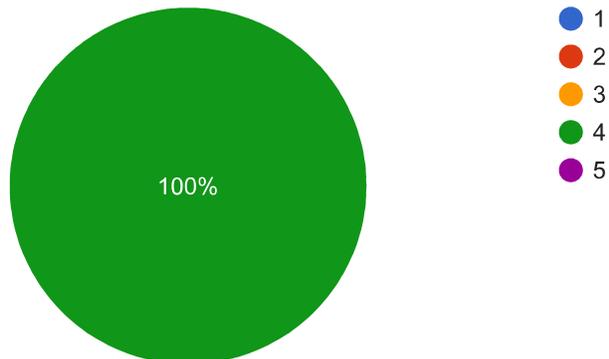
Potential new courses that could be incorporated into the curriculum. (Please include link to syllabus available at other universities, if available)

7 responses

Nanochemistry: Fundamentals and Appplications

AI related paper

Spectroscopy, Advanced physical chemistry and organic chemistry courses.AI in Chemistry

NA

AI based courses

Drug Design Strategies

AI in Chemistry

Are there any emerging trends/skills/knowledge areas that could be incorporated in our programme?

9 responses

Incorporating artificial intelligence and machine learning can enhance students' job prospects to align with real-world needs.

AI tools

Option for Projects and Research. AI incorporated curriculum.

AI and ML

AI in chemistry

AI based CIA components

Hands-on Training in Single Crystal Analysis

Visualized learning

AI related practicals

General Comments and Suggestions (For all the course)

2 responses

Very good

Complete syllabus for a course should b prepared at the same time

Google Forms

Designation

4 responses

Phd scholar

Research scholar

PhD scholar
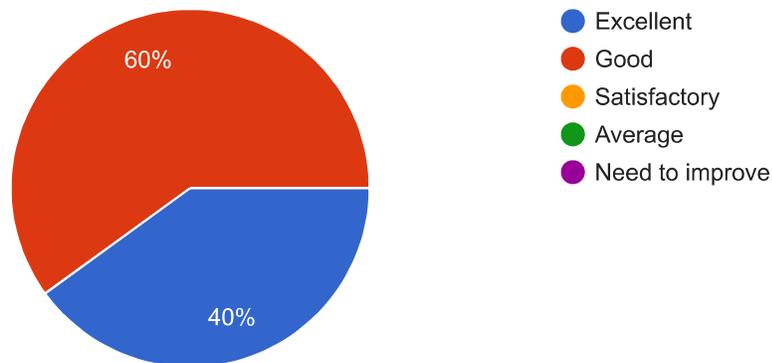
Assistant Professor

Feedback

Is the curriculum updated on a regular basis depending on the current trends and advanced topics?   🗐 Copy
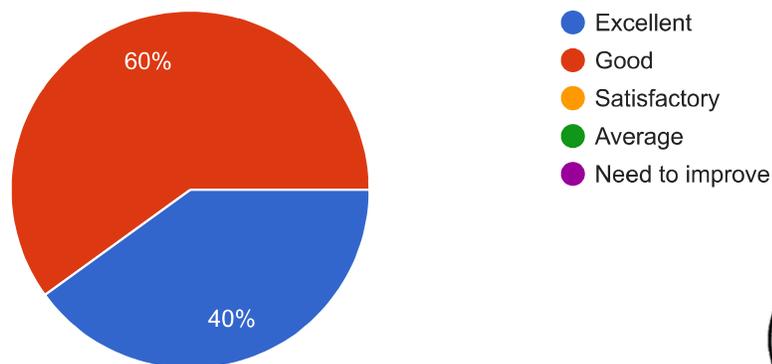
5 responses

- ● Excellent
- ● Good
- ● Satisfactory
- ● Average
- ● Need to improve

60%

40%

Does the curriculum orient the students towards higher education?   🗐 Copy

5 responses

- ● Excellent
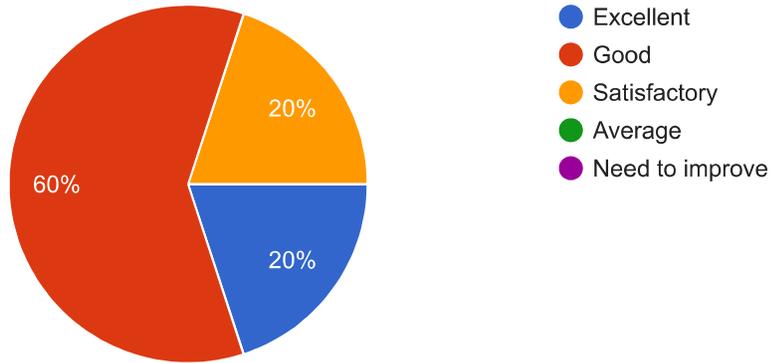- ● Good
- ● Satisfactory
- ● Average
- ● Need to improve

60%

40%

Head
Department of Chemistry
CHRIST (Deemed to be University)
Bengaluru - 560 029
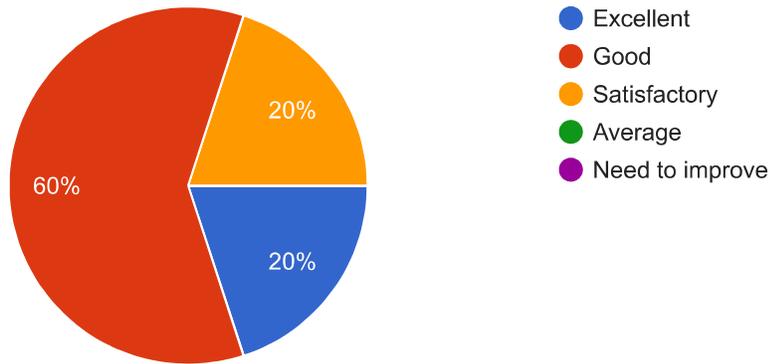
Does the curriculum provide employability weightage?

5 responses

- Excellent
- Good
- Satisfactory
- Average
- Need to improve

60% · 20% · 20%

Does the curriculum meet the expectations of the industry?

Copy

5 responses
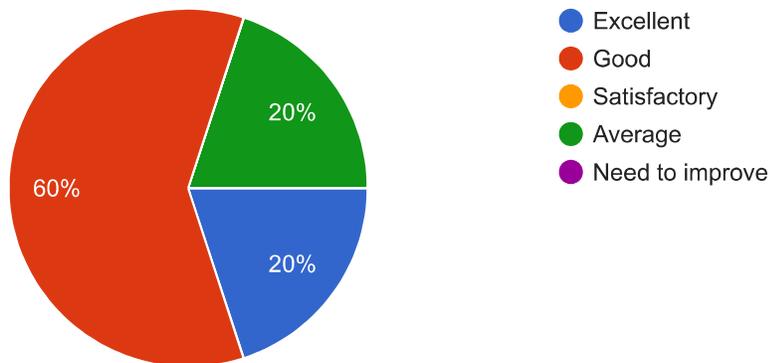

- Excellent
- Good
- Satisfactory
- Average
- Need to improve

60% · 20% · 20%

Does the curriculum enable the student to connect the knowledge to real life application?

Copy

5 responses

- Excellent
- Good
- Satisfactory
- Average
- Need to improve

60% · 20% · 20%

Does the curriculum encourage entrepreneurship?

Copy

5 responses

- Excellent
- Good
- Satisfactory
- Average
- Need to improve

40%
40%
20%
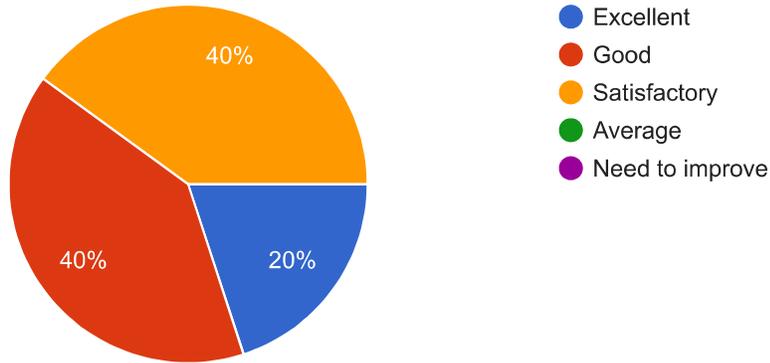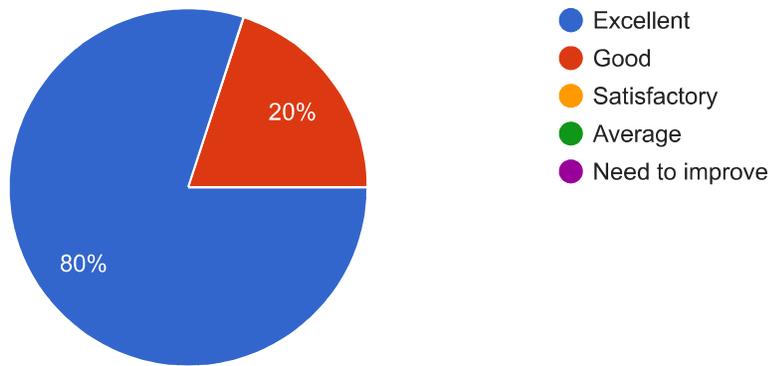
Do you think that the curriculum motivates the students for research and development?

Copy

5 responses

- Excellent
- Good
- Satisfactory
- Average
- Need to improve

20%
80%

General comments and suggestions

2 responses

Need to include competitive exams related topics and education on AI

Could include AI and ML Courses in Curriculum

Google Forms

CHRIST (Deemed to be University), Bengaluru-560029
INDUSTRY FEEDBACK ON CURRICULUM

Department of Chemistry

Name of the Employee	
Designation and Name of the Organization	
Contact Details	Phone Number: Email ID:
Experience in Industry (Number of Years)	
Overall Comments on Curriculum	
What core competencies, technical skills, and professional attributes should UG students possess to be industry-ready? **Comments**	
What advanced knowledge, specialization, research capability, or industry exposure should PG students demonstrate to be industry-ready? **Comments**	
Please suggest specific courses, certifications, internships, or skill-based training that may be incorporated into the curriculum. **Comments**	
General Comments and Suggestions (if any)	

Place: Bengaluru   Signature

Date: 24.02.2026