

Department of Physics and Electronics

Stakeholder-Feedback analysis

and

Action taken Report 2025



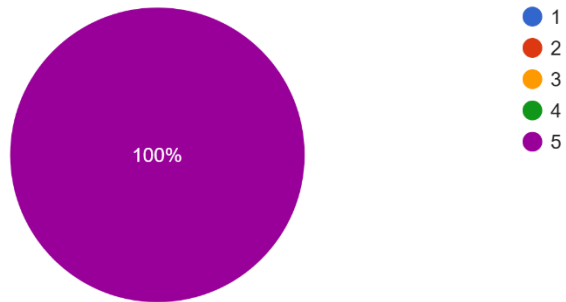
Industry Feedback 2025

Department of Physics and Electronics
CHRIST (Deemed to be University)



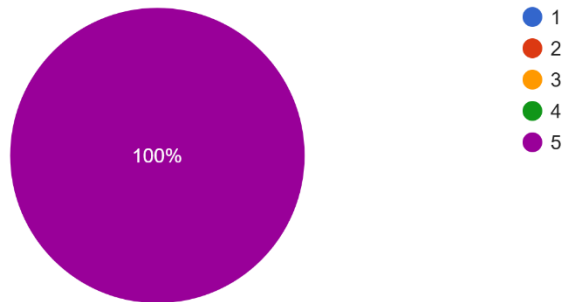
Is the curriculum updated on a regular basis depending on the current trends and advanced topics?

2 responses



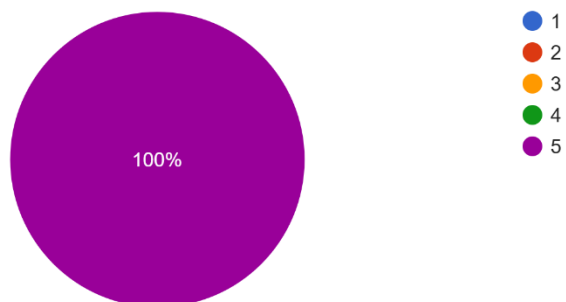
Does the curriculum orient the students towards higher education?

2 responses



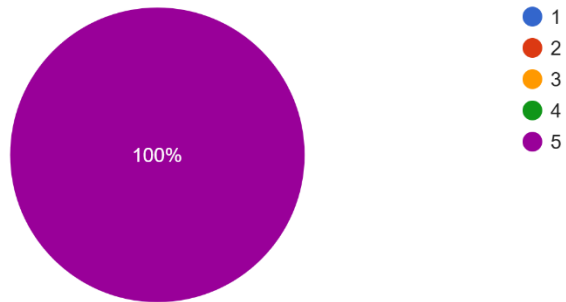
Does the curriculum provide employability weightage?

2 responses



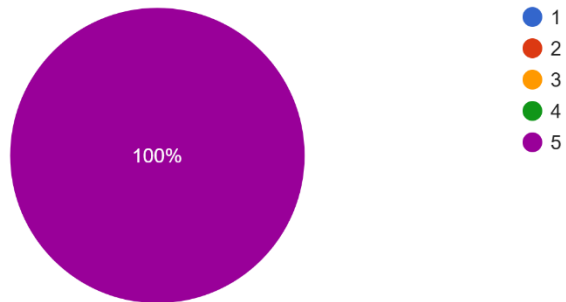
Does the curriculum meet the expectations of the industry?

2 responses



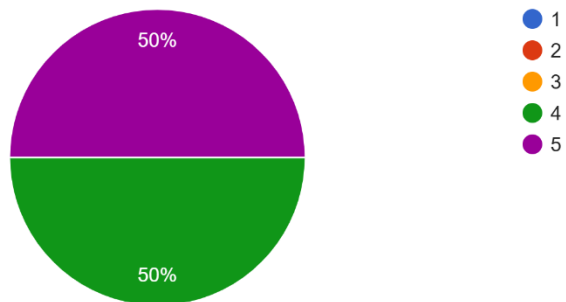
Does the curriculum enable the student to connect the knowledge to real life application?

2 responses



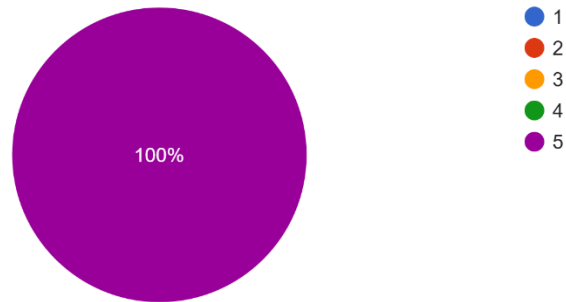
Does the curriculum encourage entrepreneurship?

2 responses



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

2 responses



General comments and suggestions

2 responses

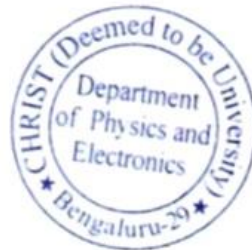
Excellent.

There are different types of Optical microscopes are used in industries. It will be good to include it in the metallurgy section.



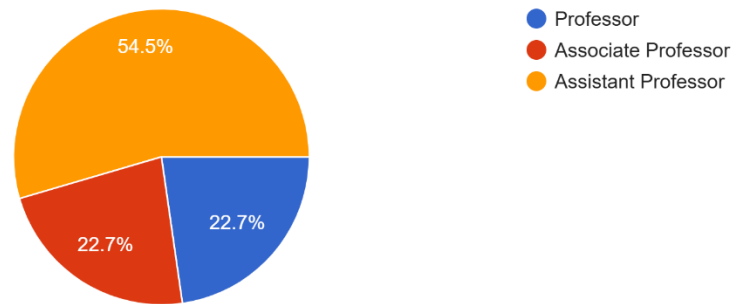
Faculty Feedback 2025

**Department of Physics and Electronics
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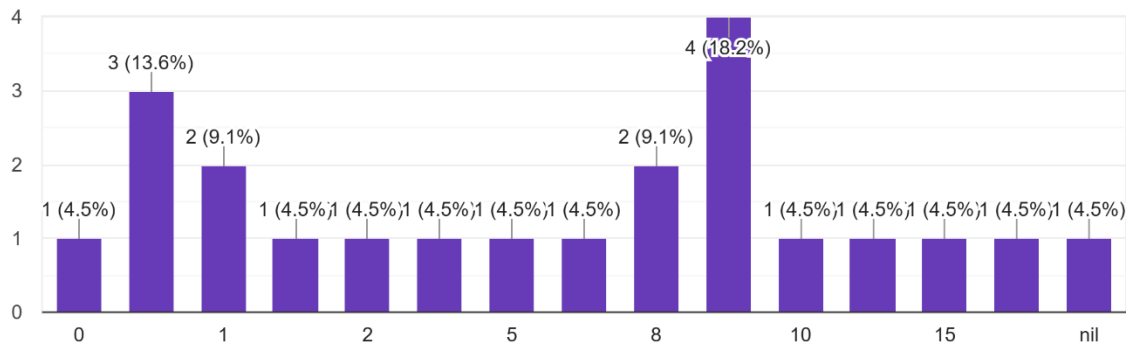
Designation

22 responses



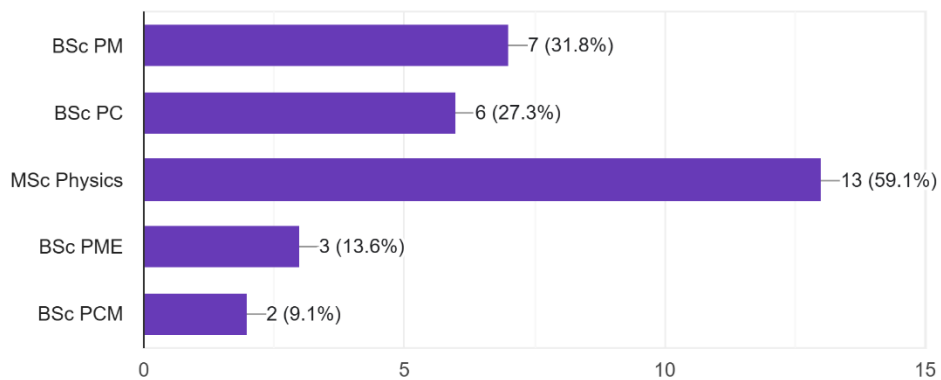
Experience in Industry/R&D (Number of Years)

22 responses



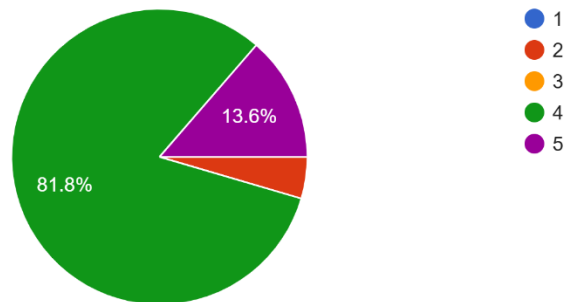
Programmes taught

22 responses



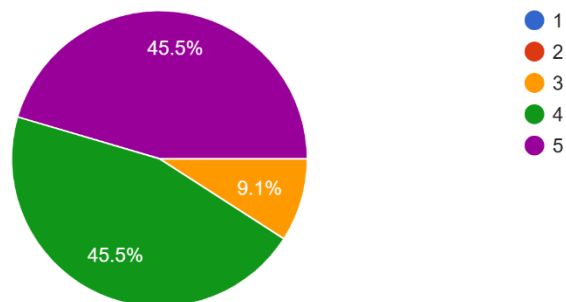
Does the curriculum satisfy the stated objectives and learning outcomes?

22 responses



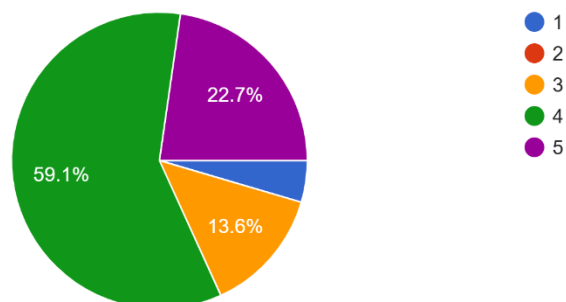
Do you have continuous processes to propose, modify, suggest and incorporate new topics in the curriculum?

22 responses



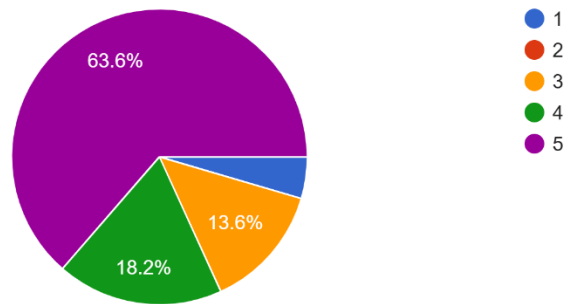
Is the curriculum effective in developing independent thinking?

22 responses



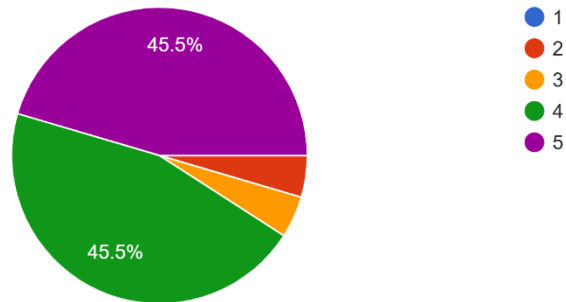
Does the departmental level expert committee meet to review the curriculum?

22 responses



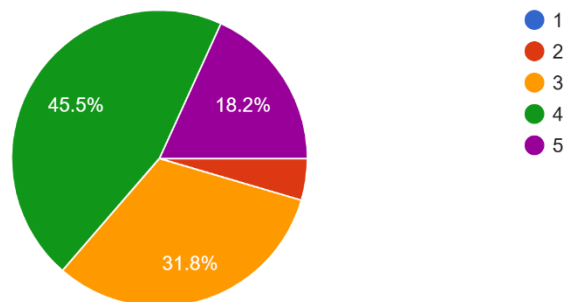
Does the curriculum enhance your knowledge in the subject area?

22 responses



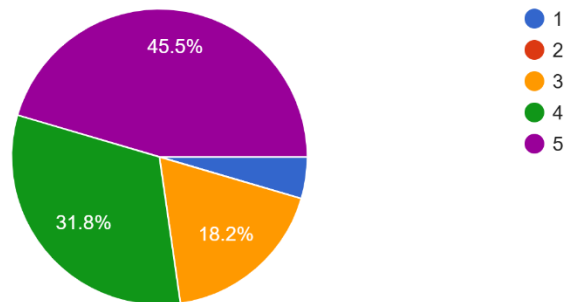
Does the curriculum enable the students to apply their knowledge in real life?

22 responses



Does the curriculum demand the teachers for research inclusive teaching?

22 responses



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

- **Physics Specializations:** Suggested courses include Medical Physics, Space Physics, Applied Physics, Biophysics, Geophysics, and Applied Optics and Photonics.
- **Physics with Computing/Data Science:** Proposed programs are BSc Physics with Computer Science, BSc Physics, Data Science, and Physics & Data Science, with links to syllabi from other universities.
- **Electronics and Communication:** Recommended courses include IoT integrated with AI, Signal and image processing, Advanced communication systems, Mobile communication technologies, Power electronics, Embedded systems and Robotics, Semiconductor Technology, VLSI, Robotics, and Autosar.
- **Advanced Topics and Skill Development:** Suggestions were X-Ray Crystallography & Diffraction, Nonlinear dynamics and Chaos (with links to external resources), and general AI courses, along with a request for value-added courses to aid in student placement.

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

- **Technology and Computing:** Incorporate Artificial Intelligence (AI) for system designers, AI/Machine learning, and Quantum Computing.
- **Industry and Practical Skills:** Strengthen the electronics curriculum with industry-oriented courses, include industry/external project components, and offer practical courses as Skill Enhancement Courses (SEC) for undergraduate students.

- **Specific Specializations and Topics:** Add Semiconductor Physics, Infotainment development, EV-BMS Charging, Autosar, Manufacturing techniques and packaging materials for devices, and Robotics.
- **Advanced Computational Techniques:** Offer skill courses on Crystallography - Structure solutions, DFT - Gaussian (Molecular), and DFT - Computations (Atomic level).
- **Pedagogy and Structure:** Adopt a problem-oriented syllabus and lectures, and focus on interdisciplinary science.

General Comments and Suggestions (For all the course)

- **Curriculum Structure and Content:** The curriculum is generally viewed as well-framed, covering both fundamental and advanced topics in Physics, but there are suggestions to strengthen the Electronics specialization with trending areas (VLSI, Robotics, Autosar) and to restructure Mathematical Physics.
- **Course Flow and Timeframe:** Some courses, like Statistical Physics and Relativistic Quantum Mechanics, lack consistent flow and shorter time frames; specific examples include insufficient time for the concept of phase transition and missing important concepts before moving to Quantum Field Theory.
- **Assessment Load:** A few responses suggest the exam and CIA (Continuous Internal Assessment) load should be reduced.
- **NEP and Outcome-Based Learning:** One response noted the program's non-existence under NEP and offered suggestions for PG specialization, while others stressed the need for a greater focus on an outcome-based curriculum.
- **General Assessment:** The curriculum is described as overall "good" or "very good," with elective options available for cross-cutting areas.



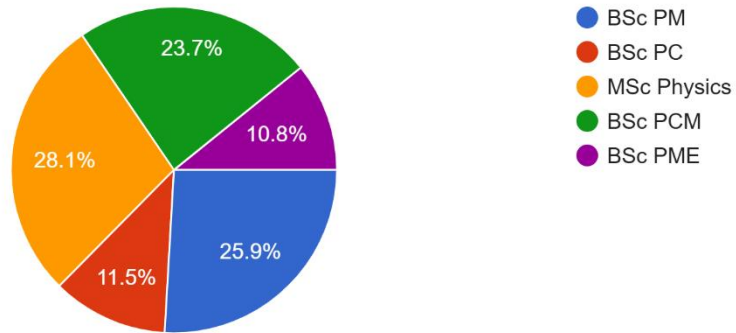

Student Feedback 2025

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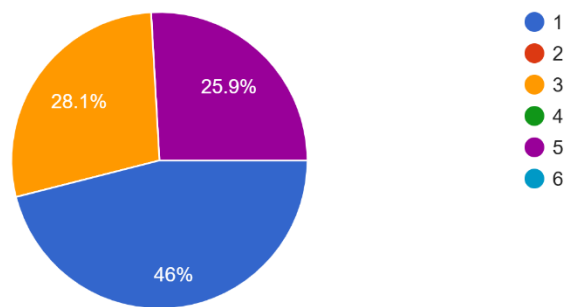
Name of the program

139 responses



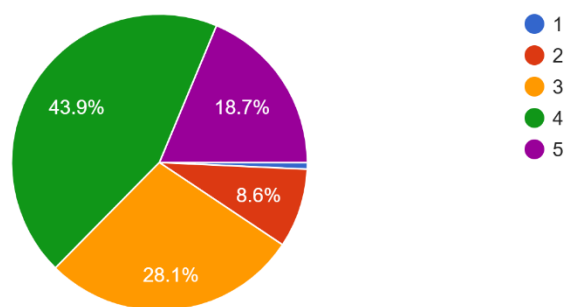
Semester

139 responses



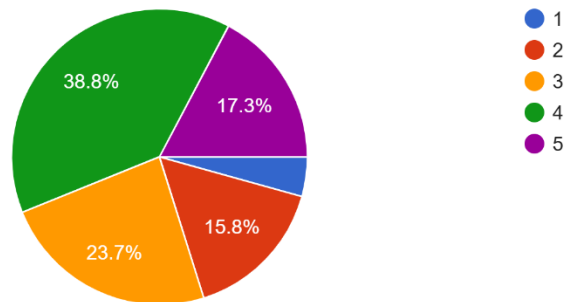
Does the content of the curriculum satisfy the stated objectives and learning outcomes?

139 responses



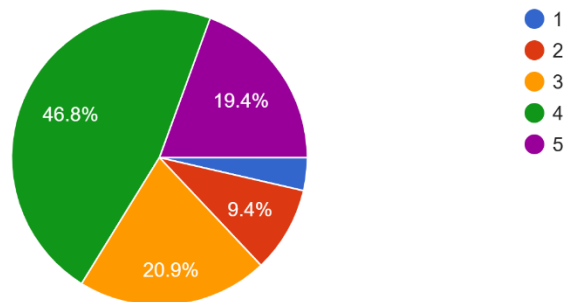
Does the curriculum cover advanced topics?

139 responses



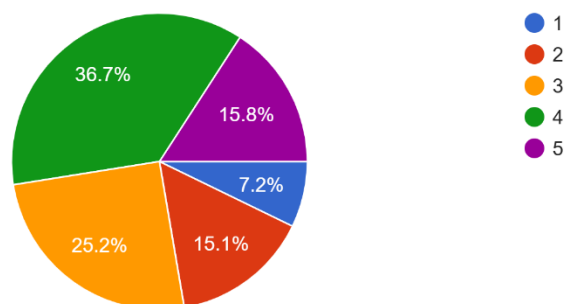
Whether the curriculum enhances your knowledge and skills in the relevant domain?

139 responses



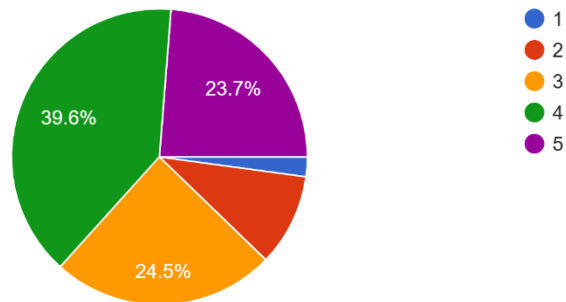
Is the curriculum effective in developing critical/ analytical thinking?

139 responses



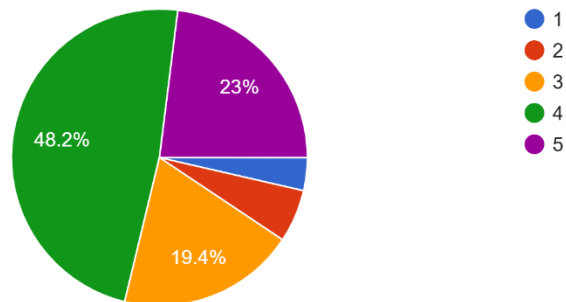
Are the reference materials relevant to the content of the curriculum?

139 responses



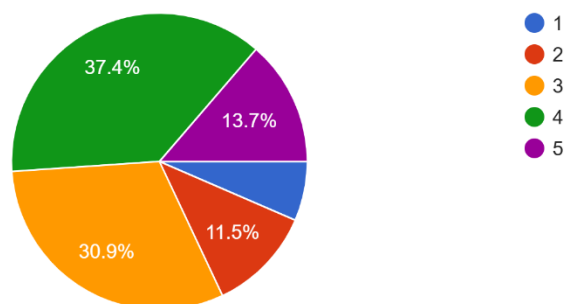
Does the curriculum orient towards higher education?

139 responses



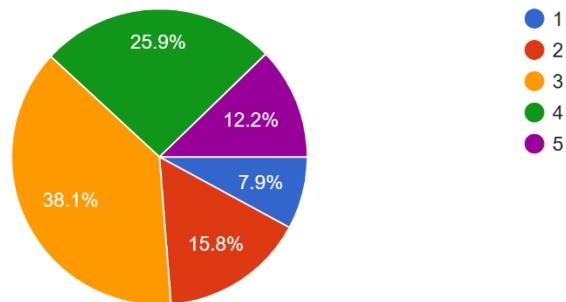
Does the curriculum enable the students to apply their knowledge in real life situations?

139 responses



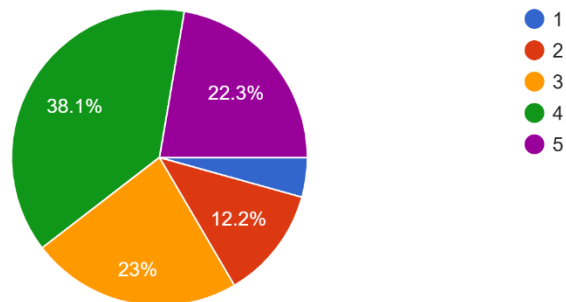
Is employability given weightage in the design and development of curriculum?

139 responses



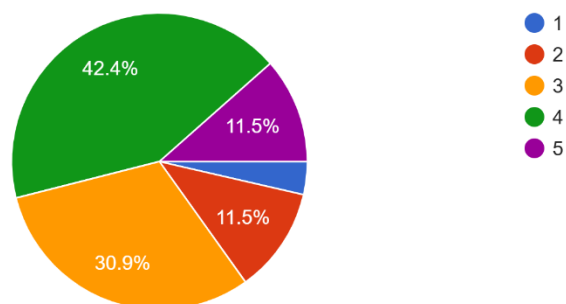
Does the curriculum promote self-study and attitude of research?

139 responses



Does the curriculum meet your overall expectations?

139 responses



Action taken Report based on the feedback from stakeholders 2025

As a part of curriculum design process, feedback from various stake holders was taken and analyzed, the following are the major actions that were taken on the UG/PG curriculum for the academic year:

- It was decided to incorporate the latest trends through the elective courses.
- The semiconductor technology related topics were discussed.
- Based on all the feedbacks from stakeholders, initiatives taken to collaborate
- with industries and leading R&D institutions to strengthen the curriculum and learning experiences for the students
- Discussed to integrate AI into the courses
- Discussed to integrate servive learning as a component in the academic courses
- Mandatory internship implemented

