"शीलं परं भूषणम्"

Cummins College of Engineering for Women, Pune
(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

MKSSS's
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COLLEGE OF ENGINEERIN
FOR WOMEN

Report on the Feedback about Curriculum from Stakeholders

(A.Y. 2022-23)

Feedback on curriculum is obtained by the stakeholders i.e. students, teachers, alumnae and employers. The questionnaire of the feedback was circulated through the Google form. For the students' feedback complete anonymity of the student is maintained.

- ### Students' Feedback

The survey provides a comprehensive overview of students' perspectives on various aspects of the curriculum and educational experience.

Prerequisites Coverage: A significant majority of students, ranging from 68% to 72%, believe that the prerequisites for the courses in the curriculum were adequately covered earlier. This indicates that foundational knowledge required for the courses is generally well-established.

Adequacy of Allotted Lectures/Practicals: There is a consensus among students, with 85% to 89% indicating that the number of allotted lectures and practicals is sufficient to cover the syllabus. This suggests that students find the allocated instructional time to be appropriate.

Time for Self Study and Activities: Responses regarding self-study time and engagement in other activities range from 55% to 76% in favor of sufficiency. This indicates that a majority of students feel they have the necessary time for independent study and extracurricular pursuits.

Usefulness of Curriculum Content: The curriculum content is generally rated positively, with "Very Useful" and "Moderately Useful" garnering 44% to 54% of responses. This demonstrates that students perceive the curriculum content as effective for building conceptual understanding.

Assessment Process Transparency: The transparency of the assessment process is well-regarded, with "Completely Transparent" receiving 65% to 69% of responses. This suggests that students generally feel that the assessment process is clear and fair.

Availability of Learning Resources: An overwhelming majority of students (ranging from 87% to 94%) indicate that adequate and appropriate resources are accessible, including reference books, textbooks, e-books, and reading materials.

Value of Practical Sessions and Tutorials: The importance of practical sessions and tutorials is evident, with "Very Useful" and "Helpful to a Large Extent" responses ranging from 59% to 72%. This underscores the value of hands-on experience and additional instructional support.

Interest in Internships: A high percentage of students express interest in undertaking an internship (ranging from 96% to 98%). This indicates a strong desire for practical industry experience.

Feedback on Elective Courses and Technological Advancements: The feedback on program electives is generally positive, with 87% to 93% stating that prerequisite courses were covered in previous semesters. Additionally, there is an indication that program electives are often related to technological advancements.

Stimulation of Interest in Engineering: A significant majority of students, ranging from 57% to 59%, state that the courses stimulate interest in the engineering field.

Multidisciplinary Subjects and Open Electives: A large percentage of students (ranging from 91% to 96%) report that they have the opportunity to choose multidisciplinary subjects through open electives.

Internship Experience: Among those who undertook an internship, 77% found it useful, while 14% found it moderately useful. Only a small percentage (2%) considered it not useful.

Preferred Duration for Internship: For those who have opted for an internship, 48% prefer a duration of 6 months, while 28% prefer 2 months and 14% prefer 3 months.

Impact of Final Year Project: The final year project is perceived positively, with a majority of students indicating that it helped in developing abilities like problem-solving, teamwork, presentation skills, project management, and innovation.

In summary, the survey data reveals a generally positive perception of the curriculum, with students expressing satisfaction with prerequisites, instructional time, self-study opportunities, curriculum content, assessment transparency, learning resources, practical sessions, and tutorials. Additionally, there is a strong interest in internships and a recognition of their value in the educational experience. The feedback on elective courses, technological advancements, and final year projects is also positive, indicating a well-rounded educational program.

• Alumnae Feedback

Alumnae feedback is crucial in the design of revised curriculum as these stakeholders can help most to bridge the gap between academia and industry. The key points from alumnae feedback are as given below;

The analysis of the survey responses reveals a generally positive perception of the curriculum, with the majority rating it as Very Good (30%) or Good (44%), indicating alignment with industry needs. However, there is room for improvement, as only 22.5% rated it as Excellent. In terms of technological advancement, 62% believe the current programs and electives are adequate, but 38% express a desire for more options. The overwhelming consensus (99%) supports making internships mandatory, with preferences for durations of 3 months (50%) or 6 months (38%). Final year projects are seen as valuable opportunities for developing skills like Presentation Skills (89%), Team Work (85%), and Problem Solving (82%). While 75% believe the present laboratory courses are sufficient, 25% disagree, suggesting a need for evaluation. Co-curricular and extra-curricular activities are considered very useful by 75% of respondents. The curriculum is perceived as very useful for Placements (75%) and Higher Studies (62%), but there's room for improvement in Entrepreneurship Development (45%). Overall, the feedback highlights strengths and areas for enhancement, providing valuable insights for curriculum refinement.

• Teachers Feedback

Based on the analysis of the survey data, several key findings emerge regarding the perception of the program curriculum. Firstly, a significant majority, 95.5%, either strongly agree or agree that the courses in the curriculum effectively address all the Program Outcomes and Program Specific Outcomes defined by the NBA. Similarly, a substantial consensus of 93% either strongly agrees or agrees that the program curriculum aligns with global trends in program-specific areas.

Furthermore, the survey indicates that a majority, 94.5%, strongly agree or agree that the revised program curriculum strikes a good balance between core engineering knowledge and skills. Similarly, 92.5% of respondents believe that the curriculum equally covers the fundamentals and applications of the program area.

Regarding specific components of the curriculum, 96% of respondents find the six-month internship period to be adequate for students to familiarize themselves with the industry environment and functioning. On the other hand, there is a mixed response to the inclusion of interdisciplinary courses, with 86% either strongly agreeing or agreeing, while 14% express some extent of disagreement.

\Overall, the data suggests a high level of satisfaction with the program curriculum, particularly in terms of alignment with outcomes, global trends, and the balance between theoretical knowledge and practical application.

- **Employer's Feedback**

The feedback from Employers about the curriculum and related areas looks quite positive overall. A significant 62.5% find the curriculum highly relevant to industry needs, and another 25% see it as good. The availability of program/electives keeping up with technological advancements has strong support, with 50% strongly agreeing and 25% in agreement. The majority (75%) believes that internships should be mandatory, but opinions vary on their ideal duration. Interestingly, 75% feel that the current curriculum effectively imparts soft skills and leadership qualities, and half of the respondents think it provides sufficient industry exposure. The application of basic engineering fundamentals scored well, with 62.5% rating it as excellent. The analysis of graduates' confidence in various areas, including data interpretation and effective communication, suggests a balanced performance.

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