School of Engineering and Technology
Department of Electronics and Communication Engineering
Curriculum Feedback Analysis 2023-24

The Department of Electronics and Communication Engineering revises its curriculum for the programmes offered every year based on the relevant trends in industry and emerging technologies by considering the feedback provided by all its stakeholders on the curriculum. This report is an analysis of the feedback collected from the various stakeholders like students, alumni and faculty members and this report shall be forwarded to the Department Curriculum Design and Development Cell (CDC) for consideration while revising the curriculum.

This academic year feedback was collected from a total of 246 students, 23 faculty members, 33 alumni, 6 employers and 11 parents. This feedback was analyzed and this report contains the analysis and recommendations to CDC based on the analysis carried out.

Student Feedback on Curriculum

A total of 246 students took the curriculum feedback survey. The questionnaire and the number of responses for each year of study was as follows

All Years of Study				
Total Number of Students Participated in the Survey :246				
Question	Excellent	Very Good	Good	Average	Needs Improvement
Does the content of the syllabus satisfy the stated objectives and learning outcomes as per the course and program of study in line with the implemented Outcome Based Education?	21	47	74	8	3
Does the syllabus enhance your knowledge and skills in the relevant domain?	20	45	70	14	4
Does the content of the syllabus orient you towards higher education?	19	49	61	21	3
Does the syllabus enable the students to apply their knowledge in real life problem	18	33	63	28	11

|					
solving?					
Is employability given weightage in the design and development of syllabus?	11	37	65	36	4
Does the syllabus promote self-study and attitude of research?	21	49	57	23	3
Does the syllabus meet your overall expectations?	21	38	79	9	6
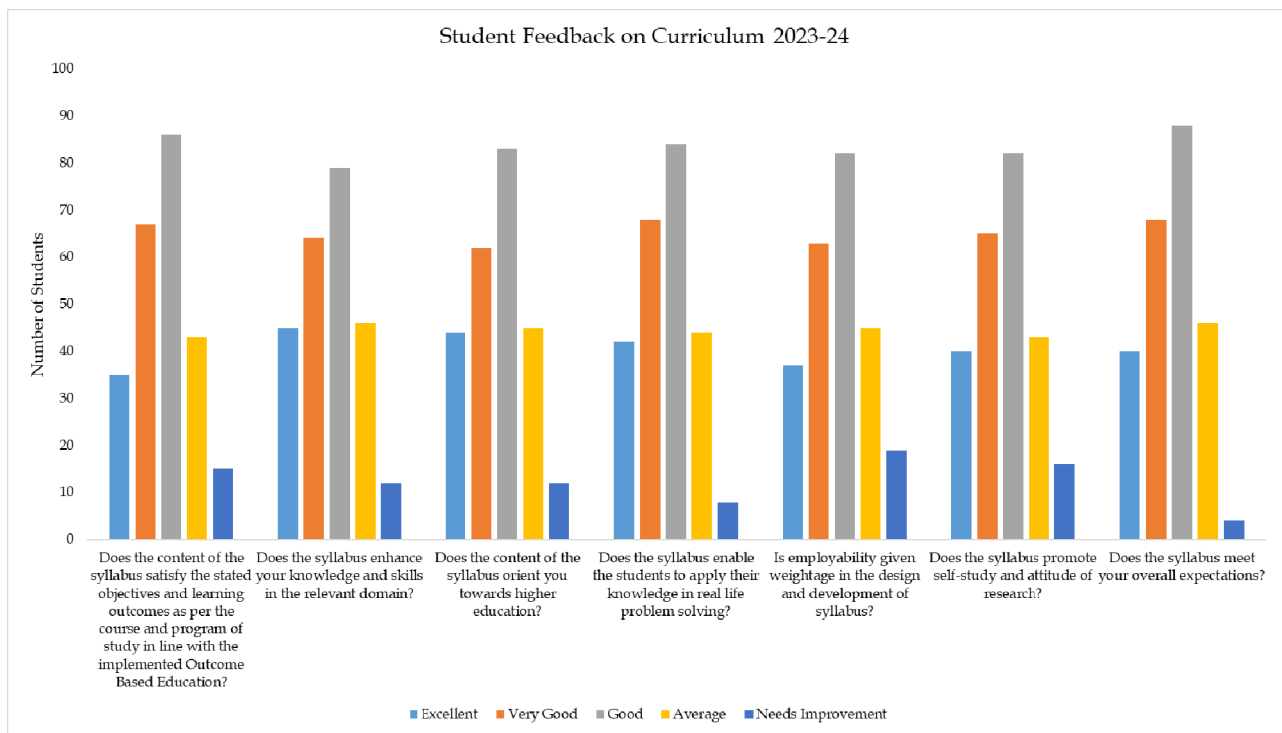
The above graph is a representation of the feedback responses given by the students as per the questionnaire.

The graph given below depicts the overall expectation meeting of the students from all years as far as syllabus is concerned. From the graph it can be seen that the students have given a feedback where 90% of the students are satisfied with the curriculum being offered. However, when the general comments and suggestions were analyzed, the following were the main points given by the students

- More hands on trainings required in analytical courses.
- Require more industrial visits
- Industry used tools to be used more in teaching learning pedagogy
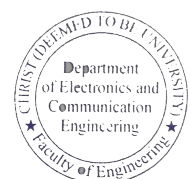
Curriculum Meeting overall expectations of Students
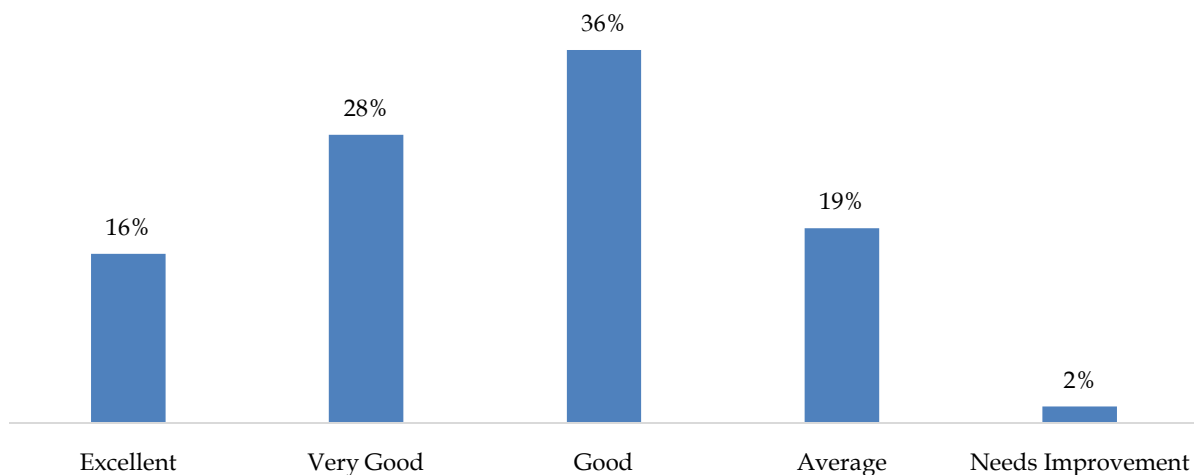

Faculty Feedback on Curriculum

Faculty members are the backbone of any higher education institution and their feedback is very important to analyse the curriculum and to update it as per the necessity. As a practice, the department takes feedback from every course handling faculty member and the below section is an analysis of the same.

The questionnaire floated with 23 faculty members concentrated on the below questions and also on suggestions/ recommendations for the courses handled by them in the even semester of 2022-23 and odd semester of 2023-24. The synopsis of the same is given below

Question
Does the course curriculum fulfills your expectations
Does the curriculum create any interest to pursue Research/Development in the particular topic for the students?
Does the syllabus cater to industry and global needs? If no, then specify the technologies/topics to be added to make it more updated

Few of the suggestions by the course handling faculty members is as given below

| Sl No	UG/PG	Course Name	Course Code	Recommendations	Recommended by
1	UG	Biology for Engineers	BS136/BS236	Changes in Unit-1 by shifting focus towards technological applications Changes in Unit-4 by replacing force and motion with fundamentals of bio	Dr.Hari Murthy
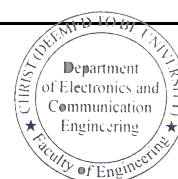
				mechanics Changes in Unit-5 with one component of bio material synthesis	
2	UG	VLSI Design	EC631P	Introduction of CADENCE experiments	Dr.Sourav Roy
3	UG	Mathematics for Intelligent Systems	ELC331	Python being used in all the modules Introduction of Jacobian and Hessian Matrix in Unit 2	Prof.Jai Govind
4	UG	Introduction to Machine Learning using Python	ELC632P	Inclusion of Introduction to transformers in Unit-4	Prof.Jai Govind
5	UG	Mathematical Foundations for AI-II	AI431	Python being used in all the modules Introduction of Jacobian and Hessian Matrix in Unit 1	Prof.Jai Govind
6	UG	Signals and Systems	ELC433	Reordering of all then units	Dr.Ranjith
7	UG	Digital System Design	EC337	Introuction of number systems in Unit-1 and sequential system realization also to be included	Dr.Jyotirmoy Pathak

Feedback from Alumni, Industry and Parents

In addition to the above feedback collected from faculty members, feedbacks were also collected from alumni, employers and parents. The major suggestions as given by these stakeholders are as follows

1. Inclusion of more hands on training in the trending areas like artificial intelligence and machine learning.
2. More facility setup at the campus related to high end data servers and machines for implementation of data analytics and prediction.

This analysis report on all the feedbacks collected from the students, faculty members, alumni and verticals shall be presented to the Department CDC for discussion and deliberation to be recommended to the Department Board of Studies for the academic year 2024-25 to be held in the month of February 2024.
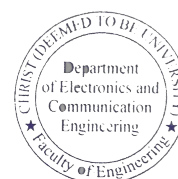
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Action Taken Report on Curriculum Feedback Analysis

Stakeholder	Major feedback	Action Taken
Students	More emphasis on industry requirements	• Entire curriculum has been revised and industry case studies included • Introduction of 4 multidisciplinary courses with project based learning and assessment
Alumni	Make students industry ready through internships and projects	• Flexibility in the curriculum to accelerate and dedicate the final year for internships with stipend
Employers	Courses to be revised and include trending areas like Semiconductor Industry	• M.Tech VLSI and Embedded Systems programme is introduced
Faculty	Satisfied with the curriculum and facilities	Noted
Parents	Satisfied with the curriculum and facilities	Noted