

# Thiagarajar College of Engineering, Madurai -625015

## Department of Electronics and Communication Engineering

18.12.2023

### Employer Feedback for the Academic year 2022-23

Employer Feedback Analysis were carried out. The following observations were made:

- Use of technical knowledge to participate in engineering design discussion. Fundamental core courses have to be dealt conceptually with more tutorial problems.
- Use mathematics to describe and solve complex engineering problems. Application of mathematics to solve engineering problems should be emphasised.
- Test a design solution to determine if it meets its specified needs. The importance of Testing and Validation should be emphasised in the curriculum.
- Adapt or extend an engineering tools and techniques to accomplish a complex task. Theory and practice should go together by incorporating "Learning by doing".
- Identify and describe the various goals and roles of the engineering profession, particularly the responsibilities of engineers to society. The contribution of Engineers to society should be given due importance in the curriculum.
- Apply technical, social, and environmental criteria to guide trade-offs between design alternatives. Professional Ethics and concern towards environment should be emphasised in the curriculum.
- Incorporate sustainability considerations in project decision-making. The importance of sustainability should be the bottom-line of Design Thinking, System Thinking, Engineering Design, Capstone and Major project courses.
- Review team's strengths and weaknesses and tell others where the team might need help. The importance of team work should be emphasised by practicing it in Design Thinking, System Thinking, Engineering Design, Capstone and Major project courses.
- Deliver a clear and organized formal presentation to a group of professionals. The communication skills should be integrated in the curriculum and particularly practiced in the CDIO courses.
- Use various written styles to communicate complex engineering concepts to your colleagues. The communication skills should be integrated in the curriculum and particularly practiced in the CDIO courses.
- Use technical literature or other information sources to fill a gap in your knowledge. An extensive literature survey should be carried out in the Major project courses.

#### Action Taken:

The course faculty handling fundamental core courses and CDIO course have been reiterated regarding the implementation of suggestions given by the employer. All the suggestions/comments expressed by the employers shall be taken up in the Board of Studies Meeting and appropriate incorporations /corrections shall be carried out in the curriculum.

VRV

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HODECE

Ref/TCE/ECE/Employer/Feedback

12-12-2022

Report on Employer Feedback

Suggestions:

The employer feedback survey outcome helps to improve student's technical knowledge, personal, professional and interpersonal skills. The areas of improvement are:

- Get team members to make personal commitments to deliver what they had agreed to do for a project.
- Make and challenge assumptions that simplifies a complex engineering problem.
- Develop and use prototypes to solve the complex engineering problems.
- Execute appropriate optimization and synthesize the final design.
- Identify an ethical dilemma when it occurs in a project.
- Analyze opposing positions on an issue and make a judgment based on the evidence
- Use technical literature or other information sources to fill a gap in technical knowledge

Action taken:

- Team member's personal commitments is ensured in each Review of CDIO courses such as Design Thinking, System Thinking, Engineering Design project, Capstone Design project (currently it comes under Naan Mudhalval Scheme) and major project.
- Prototypes are developed to solve the complex engineering problems.
- Adjunct faculties from higher learning institutes are handling classes for UG and PG students to enhance the complex engineering problem solving ability.
- Restructured curriculum is introduced to BE(ECE) students admitted from the academic year 2022-23 onwards. Four broad areas were identified to fit-in the courses for B.E (ECE) programme, based on the faculty competence, Job potential, Modern, and Relevance.

*S.P.*  
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