

ADHIYAMAAN COLLEGE OF ENGINEERING
(An Autonomous Institution)
Affiliated to Anna University, Chennai.
Accredited by NBA & NAAC

Centre for Faculty Development

PROGRAM REPORT

DATE: 04. 02. 2025

CENTRE FOR FACULTY DEVELOPMENT

“CDIO framework – An Introduction”

Resource Person: Dr. R. Radhakrishnan, Principal, Adhiyamaan College of Engineering, Hosur

Date : 01.02.2025

Venue: R & D LAB, Adhiyamaan College of Engineering, Hosur

Time : 10.30 AM

Introduction:

The Centre for Faculty Development organized a session on the **CDIO Framework**, which stands for *Conceive – Design – Implement – Operate*. It is an innovative educational framework developed to reform and enhance engineering education worldwide. The CDIO initiative was originally created by the Massachusetts Institute of Technology (MIT) in collaboration with several universities, with the goal of producing engineers who are not only technically competent but also skilled in real-world engineering processes.

The workshop commenced with the *Tamil Thai Vazhthu*. **Mrs. M. Sukanya**, Assistant Professor, Department of EEE, Adhiyamaan College of Engineering, Hosur, welcomed the participants and emphasized the importance of the CDIO Framework. **Dr. R. Radhakrishnan**, Principal, Adhiyamaan College of Engineering, Hosur, delivered a comprehensive presentation on “*CDIO Framework – An Introduction.*”




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Dr. M.G.R Nagar, HOSUR - 635130.
NBA Accredited Programs : BME, CSE, ECE, EEE, BT, IT & MCA
Accredited by NAAC 'A' Grade



Centre for Faculty Development

CDIO Framework - An Introduction

 **10 :30 AM**

 **01. 02. 2025**



RESOURCE PERSON

Dr.R. RADHAKRISHNAN
Principal
Adhiyamaan College of Engineering
Hosur

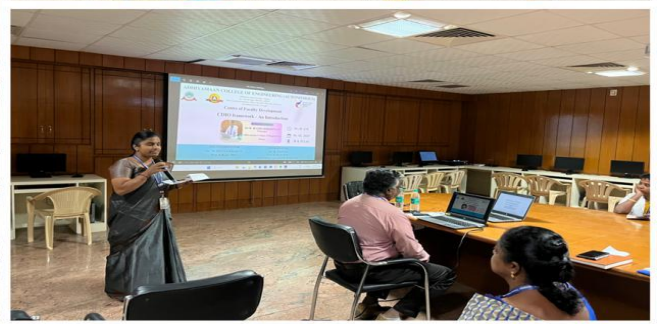
 **R & D LAB**

CO - COORDINATOR
Dr. M. DHANASEKARAN
Prof. & Head / MBA

COORDINATOR
Dr. K. SANTHI
Prof. & Head / EEE
Coordinator - Accrediation & Ranking

Program Overview:

- **Engineering Lifecycle Focus** – The CDIO framework is based on the real-world engineering process: *Conceive, Design, Implement, and Operate* products and systems.
- **Hands-on Learning** – Emphasizes practical, project-based learning where students apply theoretical knowledge to real engineering challenges.
- **Skill Development** – Builds not only technical competence but also personal, interpersonal, and professional skills such as teamwork, communication, and ethics.
- **Structured Curriculum** – Provides a set of 12 CDIO Standards to guide curriculum design, teaching methods, and assessment for continuous improvement.
- **Global Adoption** – Implemented by universities worldwide to produce innovative, industry-ready engineers equipped for modern technological environments.





Conclusion:

After the presentation, an open discussion was held during which faculty members raised questions and shared their insights on the topics covered. **Mrs. I. Sakthidevi**, Assistant Professor, Department of IT, delivered the vote of thanks, expressing her gratitude to **Dr. R. Radhakrishnan** for his valuable insights and to all participants for their active engagement. The workshop concluded with the singing of the *National Anthem*, marking the end of an enlightening and enriching session on the CDIO Framework.