



# Indra Ganesan

## COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai  
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

# NAAC DOCUMENTS

## QUALITY INDICATOR FRAME WORK

### CRITERION – 2

## TEACHING-LEARNING AND EVALUATION

SUBMITTED BY

# IQAC

INTERNAL QUALITY ASSURANCE CELL

## INDRA GANESAN COLLEGE OF ENGINEERING





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**Criteria 2 Teaching-Learning and Evaluation**

**350**

## **Key Indicator- 2.6. Student Performance and Learning Outcome (90)**

2.6.2 Attainment of POs and COs are evaluated (20)

# 2019-2020

## **ATTAINMENT EVALUATION OF POs & COs**

### **MECHANICAL ENGINEERING**

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## Department of MECHANICAL ENGINEERING

Academic Year (2019 - 2020)

### PO-PSO ATTAINMENT

PO/PSO	STATEMENT	ATTAINMENT VALUE
PO1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems	2.63
PO2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.	2.41
PO3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.	1.63
PO4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.	1.14
PO5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.	1.32
PO6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	1.66
PO7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	2.69
PO8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	1.5
PO9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	1.9

  
**PRINCIPAL** 1.9

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<b>PO10</b>	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.	<b>1.62</b>
<b>PO11</b>	Demonstrate knowledge and understanding of the engineering and management principles and apply these to ones own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.	<b>1.62</b>
<b>PO12</b>	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.	<b>1.7</b>
<b>PSO1</b>	Design components of products and develop systems using CAD/CAE tools.	<b>1.56</b>
<b>PSO2</b>	Provide manufacturing solutions, including material, process(es), process plans and inspect products and their components.	<b>2.15</b>
<b>PSO3</b>	Design and analyse heat power (thermal) devices/system. Develop simulation models of thermal and manufacturing systems using Computer aided analysis tools.	<b>2.6</b>



**PRINCIPAL**

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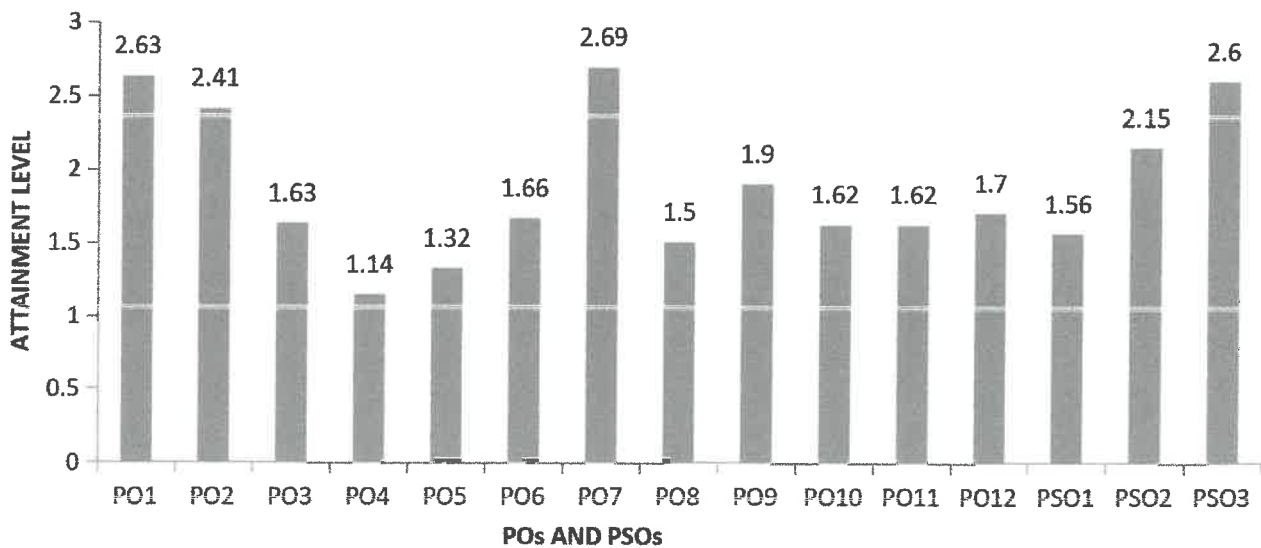


### Department of MECHANICAL ENGINEERING

Academic Year (2019 - 2020)

### PO-PSO ATTAINMENT

## 2019 - 2020 MECH DEPARTMENT CO-PO-PSO ATTAINMENT



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## DEPARTMENT OF MECHANICAL ENGINEERING

### ACTION TAKEN REPORT FOR CO-PO-PSO ATTAINMENT

ACADEMIC YEAR 2019-2020

In order to bridge the gap between the attained level with respect to the target level in each POs and PSOs, the following corrective measures were taken.

S.NO	NAME OF THE ACTIVITY PROPOSED	FOCUSED POS & PSOS
1	Value Added Course (VAC) - Advanced surveying on total station.	PO1,PO2, PO3,PO4,POS, PO9,PO10, PO12, PSO1,PSO2,PSO3
2	Entrepreneurship & Development cell (EDC) - Awareness about Entrepreneurship, innovation and importance of an E&I cell.	PO6,PO7,PO8,PO11
3	Intellectual Property Rights (IPR) - Role of IPR in green technologies	PO6,PO7,PO8,PO11
4	Language and Communication Technology (LCT)-Effect of Technology in Intercultural Communication.	PO9,PO10
5	Soft Skill Program - Way from campus to corporate	PO10
6	Life Skill Program - Entrepreneurship and Innovation.	PO8
7	Information Communication Technology (ICT) tools-AI in communication tools	PO5,PO12
8	Research Methodology (RM) - Construction safety management	PO1,PO2, PO3,PO4,PSO1,PSO2,PSO3.

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