



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(F) & T2B 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





Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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NAAC Accredited, 2(F) Status Institution by UGC



Criteria 2	Teaching-Learning and Evaluation	350
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Key Indicator-2.6 Student Performances and Learning Outcome (90)

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all programmes offered by the institution are stated and displayed on website

DEPARTMENT OF MASTER OF ENGINEERING – VLSI DESIGN-R2017

2021-2022

ATTAINMENT EVALUATION OF POs & Cos

ME-VLSI

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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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DEPARTMENT OF MASTER OF ENGINEERING (VLSI)		
ACADEMIC YEAR-2021-22		
PO/PSO	STATEMENT	ATTAINED VALUE
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	2.96
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.	2.04
PO3	Design/development of solutions: 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.	1.32
PO4	Conduct investigations of complex problems: 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	1.26
PO5	Modern tool usage: 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	1.33
PO6	The engineer and society: 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	1.56


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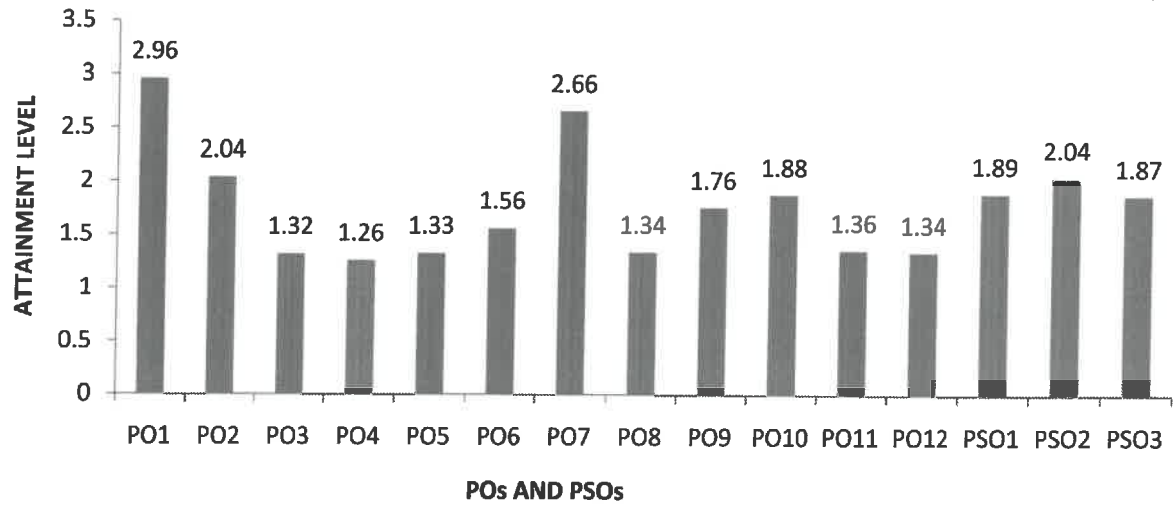
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development	2.66
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	1.34
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	1.76
PO10	Communication: 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	1.88
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.	1.36
PO12	Life-long learning: 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	1.34
PSO1	To design and develop VLSI circuits to optimise power and area requirements, free from faults and dependencies by modelling, simulation and testing.	1.89
PSO2	To develop VLSI systems by learning advanced algorithms, architectures and software – hardware co – design.	2.04
PSO3	To communicate engineering concepts effectively by exhibiting high standards of technical presentations and scientific documentations	1.87



HOD

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2021-22 ME VLSI DEPARTMENT CO-PO-PSO ATTAINMENT




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COLLEGE OF ENGINEERING

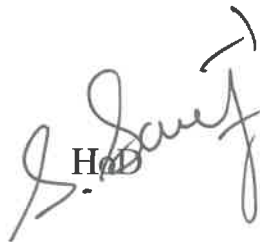
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**DEPARTMENT OF ME-VLSI
ACTION TAKEN REPORT FOR CO-PO-PSO ATTAINMENT
ACADEMIC YEAR 2021-2022**

In order to bridge the gap between the attainments with respect to target level in each **POs** and **PSOs** the following measure were taken

SL.NO	NAME OF ACTIVITIES PROPOSED	FOCUSED POs and PSOs
1	Value Added course (VAC)-advanced surveying on total stations	PO1,PO2,PO3,PO4,PO5,PO9, PO10,PO12,PSO1,PSO2,PSO3
2	Entrepreneurship & Development cell (EDC) –Awareness about entrepreneurship, innovation and importance of an EDC	PO6,PO7,PO8,PO11
3	Intellectual Properties Right (IPR)-Role of IPR Green Technology	PO6,PO7,PO8,PO11
4	Languages and Communication Technologies(LCT) –effect of technology in intercultural	PO9,PO10
5	Soft Skill Programme – way from campus to corporate	PO10
6	Life Skill Programme – entrepreneurship and innovations	PO8
7	Information Communication Technology (ICT) Tools- all in communication tools	PO5,PO12
8	Research Methodology (RM)- Safety management system at construction industry	PO1,PO2,PO3,PO4, PSO1,PSO2,PSO3


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