Indra Ganesan
COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with '8+' 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

Indra Ganesan
COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012
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Criteria 2	Teaching-Learning and Evaluation	350

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
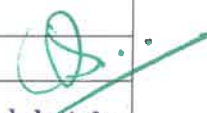
DEPARTMENT OF INFORMATION TECHNOLOGY
R2017

2021-2022

ATTAINMENT EVALUATION OF POs & Cos

INFORMATION TECHNOLOGY ENGINEERING

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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

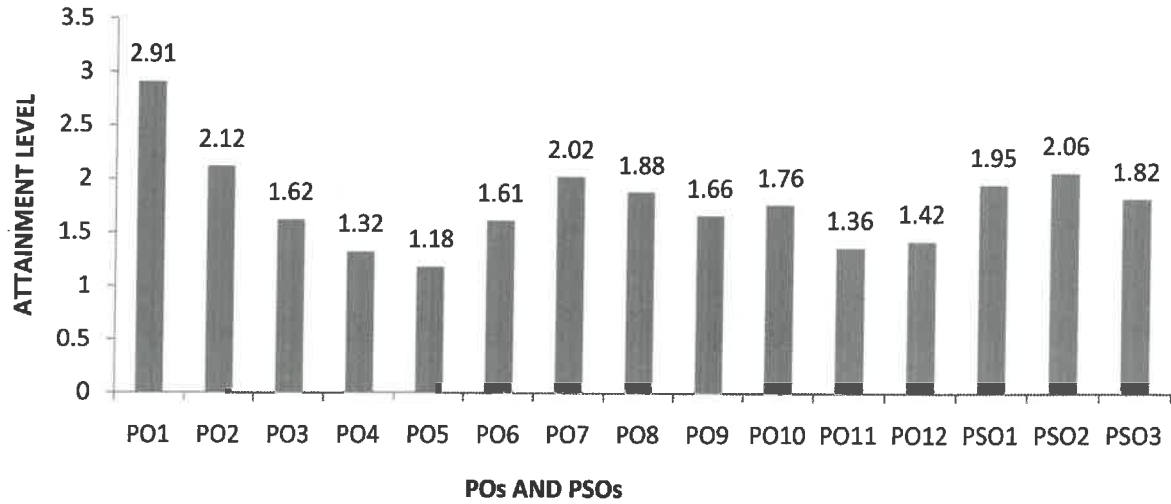| DEPARTMENT OF INFORMATION TECHNOLOGY		
ACADEMIC YEAR-2021-2022		
PO/PSO	**STATEMENT**	**ATTAINED VALUE**
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems	2.91
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences	2.12
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	1.62
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	1.32
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	1.18
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	1.61

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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	2.02
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	1.88
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	1.66
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	1.76
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.	1.42
PSO1	To create, select, and apply appropriate techniques, resources, modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations	1.95
PSO2	To manage complex IT projects with consideration of the human, financial, ethical and environmental factors and an understanding of risk management processes, and operational and policy implications.	2.06
PSO3	To adapt to emerging information and communication technologies (ICT) to innovate ideas and solutions to existing/novel problems.	1.82

HOD

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2021-22 MECH DEPARTMENT CO-PO-PSO ATTAINMENT

Bar chart — ATTAINMENT LEVEL (y-axis, 0 to 3.5) vs POs AND PSOs (x-axis):

PO/PSO	Attainment Level
PO1	2.91
PO2	2.12
PO3	1.62
PO4	1.32
PO5	1.18
PO6	1.61
PO7	2.02
PO8	1.88
PO9	1.66
PO10	1.76
PO11	1.36
PO12	1.42
PSO1	1.95
PSO2	2.06
PSO3	1.82

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DEPARTMENT OF INFORMATION TECHNOLOGY ENGINEERING
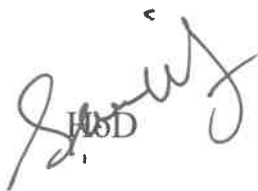## ACTION TAKAN REPORT FOR CO-PO-PSO ATTAINMENT
ACADEMIC YEAR 2021-2022

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 ACTIVETIES 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,PO07.PO8,PO11
3	**Intellectual Properties Right (IPR)**-Role of IPR Green Technology	PO6,PO07.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

HoD

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