



MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act, 1956

6.1. Actions taken based on the results of the evaluation of each of the POs (25)

6.1. A. Documentary evidence of POs' attainment levels (10)

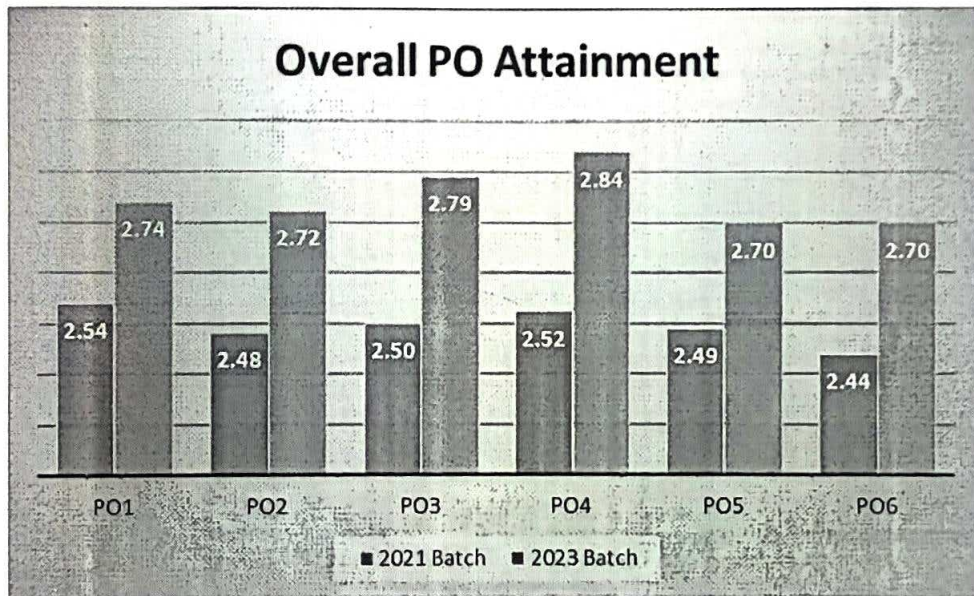
6.1. B. Identification of gaps/shortfalls (05)

6.1. C. Plan of action to bridge the gap and its Implementation (10)

Table 6.1.A: Comparison of Final PO Attainment for R20 (2021–23) and R22 (2023–25) Batches

Batch	PO1	PO2	PO3	PO4	PO5	PO6
2021 – 2023 (R20)	2.54	2.48	2.50	2.52	2.49	2.44
2023 – 2025 (R22)	2.74	2.72	2.79	2.84	2.70	2.70

Figure 6.1.A: Comparison of Final PO Attainment for R20 (2021–23) and R22 (2023–25) Batches.



From Figure 6.1.A, it is observed that the attainment of each PO is achieved the target level. A gradual increase in PO attainment over the two batches is evident due to curriculum revision, integration of research components, technical seminars, and project-based learning activities.



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Table 6.1.B: Actions and Measures for PO Attainment Improvement for MLRS-R22 (2023-25) Batch.

POs	Target Level	Attainment Level	Observations
PO1 - An ability to independently carry out research /investigation and development work to solve practical problems.			
PO1	2.5	2.74	Target is achieved The attainment statistics of PO1 is as follows: PO Average: 2.3 PO Target: 80% of PO Average
<p>Action 1: Provided access to advanced software tools and simulation platforms relevant to Embedded Systems, VLSI, and Signal Processing domains</p> <p>Action 2: Integrated outcome-based assessment rubrics focusing on originality, analysis, and practical implementation.</p> <p>Action3: promoted participation in national/international conferences, hackathons and technical symposiums</p> <p>Action 4: Encouraged students to convert project work into publications or technology disclosures.</p>			
PO2 - An ability to write and present a substantial technical report/document			
PO2	1.9	2.72	Target is achieved The attainment statistics of PO2 is as follows: PO Average: 1.93 PO Target: 80% of PO Average
<p>Action 1: Conducted training sessions on plagiarism awareness, similarity index reduction, and ethical research writing practices</p> <p>Action 2: Assignments and technical paper presentations were implemented to strengthen technical writing, documentation, and oral presentation competencies</p> <p>Action 3: Encouraged inclusion of simulation results, graphs, tables, and comparative analyses to improve technical rigor in reports</p> <p>Action 4: To fill the gaps, different guest lectures were conducted</p>			
PO3: Students should be able to demonstrate a degree of mastery in Embedded Systems.			
PO3	2.36	2.79	The target is achieved The attainment statistics of PO3 is as follows: PO Average: 2.36 PO Target: 80% of PO Average
<p>Action 1: Advanced laboratory experiments were conducted using industry-standard embedded platforms and development kits.</p> <p>Action 2: Mini-projects and capstone projects were designed to address real-time embedded system applications</p> <p>Action 3: E-learning (DSS) resources and structured assessments were adopted to ensure conceptual clarity and mastery of embedded systems concepts.</p> <p>Action 4: Problem-based learning activities were introduced to enhance system-level design and implementation skills.</p>			
PO4: Acquire and apply engineering principles to design embedded systems and processes that address complex real-world problems			
PO4	2.31	2.84	Target is achieved The attainment statistics of PO4 is as follows: PO Average: 2.28 PO Target: 80% of PO Average

Action 1: Implemented Interdisciplinary projects integrating embedded systems with IoT, AI/ML, and control systems

Action 2: Conducted hands-on sessions on sensor interfacing, actuator control, and embedded communication protocols.

Action 3: Introduced problem-based learning modules focused on real-time embedded system design challenges.

Action 4: Supported development of embedded prototypes targeting societal and industrial needs.

PO5: Use modern tools to conduct experiments, apply technical skills, and develop solutions for societal challenges and sustainable development.

PO5	2.25	2.70	Target is achieved The attainment statistics of PO5 is as follows: PO Average: 2.28 PO Target: 80% of PO Average
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Action 1: Industry-standard embedded tools and simulation software were integrated into laboratory and project work.

Action 2: Virtual labs and simulation environments were used to support experimentation and prototyping

Action 3: Students utilized MATLAB, HFSS, Cadence and embedded toolchains for system modeling, analysis, and validation.

Action 4: Assessment rubrics included effective tool usage, experimentation quality, and sustainability considerations.

PO6: Recognize the value of lifelong learning and proactively engage in ongoing professional development by embracing and integrating emerging technologies.


PO6	2.19	2.70	The target is achieved The attainment statistics of PO6 is as follows: PO Average: 2.04 PO Target: 80% of PO Average
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Action 1: Students were encouraged to attend various workshops and certification programs related to Embedded Systems, IoT, AI, and VLSI technologies.

Action 2: Students were motivated to participate in national and international technical conferences and symposiums.

Action 3: Access to e-learning resources and digital libraries such as DEL-NET, INFLIBNET, Knimbus, and other e-journals was provided for continuous skill enhancement.

Action 4: Industry-oriented training programs were organized to bridge skill gaps in embedded technologies


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Overall PO Attainment Report 2023 (MLRS R-22)

Sno	Indirect Parameter	PO1	PO2	PO3	PO4	PO5	PO6
	PO Direct Attainment	2.8	2.84	2.8	2.8	2.81	2.81
1	Program Exit Survey (PES)	2	2	3	3	2	2
2	Alumni Survey (AS)	3	3	3	3	3	2
3	Employer Survey (ES)	3	2	2	3	2	3
	Final PO Attainment = 80% Direct + 20 % Indirect (0.1PES+0.05AS+0.05ES)	2.74	2.72	2.79	2.84	2.70	2.70

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PO DIRECT ATTAINMENT OF 2023 BATCH (R-22)

SN	Year /SEM	Course Name	Code	Code	PO1	PO2	PO3	PO4	PO5	PO6
1	I-I	Digital System Design with FPGAs	ES111	2215503	2.47	2.52	2.59	2.47	2.42	2.41
2	I-I	System Design with Embedded Linux	ES112	2215504	2.85	2.88	2.86	2.86	2.81	2.84
3	I-I	Wireless Sensor Networks	ES113	2215509	2.76	3.00	2.80	2.74	2.73	2.83
4	I-I	CMOS Analog IC Design	ES114	2215512	2.70	2.84	2.77	2.79	2.84	2.77
5	I-I	Digital System Design with FPGAs Lab	ES115	2215521	2.90	2.91	2.93	2.87	2.92	2.92
6	I-I	System Design with Embedded Linux Lab	ES116	2215522	2.90	2.85	2.89	2.87	2.87	2.88
7	I-I	Research Methodology & IPR	ES117	2215502	2.19	2.24	1.80	2.06	2.20	1.99
8	I-I	English for Research Paper Writing	ES118	2210001	2.87	2.88				2.89
9	I-II	ARM Microcontrollers	ES121	2225505	2.86	2.68	2.80	2.61	2.39	2.52
10	I-II	Digital Control Systems	ES122	2225506	2.53	2.62	2.52	2.82	2.95	2.67
11	I-II	IoT Architectures and System Design	ES123	2225513	2.84	2.86	2.89	2.82	2.86	2.89
12	I-II	Hardware and Software Co-Design	ES124	2225516	2.95	2.96	2.96	2.95	2.96	3.00
13	I-II	ARM Microcontrollers Lab	ES125	2225523	3.00	3.00	3.00	3.00	3.00	3.00
14	I-II	Digital Control Systems Lab	ES126	2225524	3.00	3.00	3.00	3.00	3.00	3.00
15	I-II	Mini Project with Seminar	ES127	2225525	2.96	2.96	2.96	2.96	2.96	2.96
16	I-II	Pedagogy Studies	ES128	2220006		3.00			3.00	3.00
17	II-I	Embedded Networks	ES211	2235519	2.91	2.88	2.90	2.89	2.86	2.91
18	II-I	Fault Tolerance Systems	ES212	2235846	2.44	2.56	2.53	2.49	2.47	2.61
19	II-I	Dissertation Work Review -I	ES213	2235526	3.00	3.00	3.00	3.00	3.00	3.00
20	II-II	Dissertation Work Review-II	ES221	2245527	3.00	3.00	3.00	3.00	3.00	3.00
21	II-II	Dissertation Viva - Voce	ES222	2245528	2.96	2.96	2.96	2.96	2.96	2.96
Average					2.8	2.84	2.8	2.8	2.81	2.81

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/1

Course Name : DIGITAL SYSTEM DESIGN WITH FPGAs

Academic Year : 2023-2024

Course Code : 2215503

Regulation : M.TECH. (MLRS-R22)

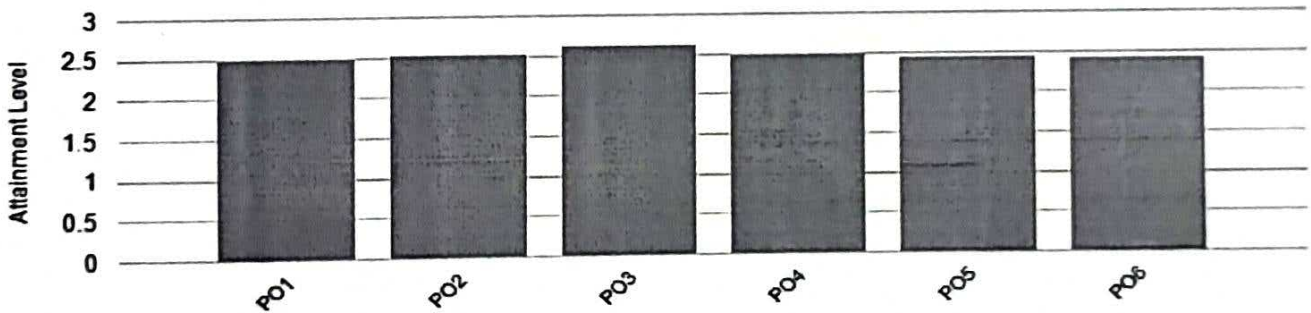
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	2	1	3	2	2	1
CO-2	2.68		2	2	3	2	
CO-3	2.8	1		2	2	1	
CO-4	1.56	2	1	2	3	3	1
CO-5	2.68	2	1	2	2	2	1
Sum		7	5	11	12	10	3

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	6	3	9	6	6	3
CO-2	2.68		5.36	5.36	8.04	5.36	
CO-3	2.8	2.8		5.6	5.6	2.8	
CO-4	1.56	3.12	1.56	3.12	4.68	4.68	1.56
CO-5	2.68	5.36	2.68	5.36	5.36	5.36	2.68
Sum		17.28	12.6	28.44	29.68	24.2	7.24
Attainment		2.47	2.52	2.59	2.47	2.42	2.41

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/1

Course Name : SYSTEM DESIGN WITH EMBEDDED LINUX

Academic Year : 2023-2024

Course Code : 2215504

Regulation : M.TECH. (MLRS-R22)

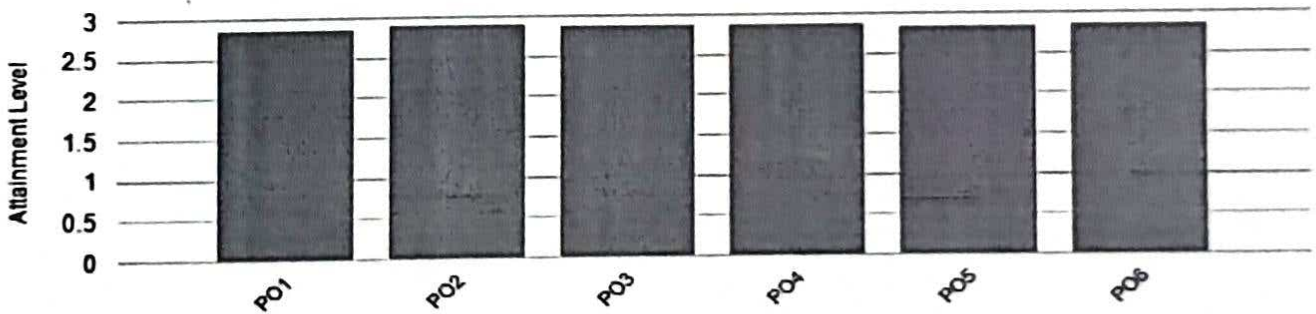
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	1	1	2	2	2	1
CO-2	2.8	2		2	3	3	
CO-3	3		1	3	2	1	
CO-4	2.52	1	1	2	2	3	1
CO-5	3	2	1	1	2	2	1
Sum		6	4	10	11	11	3

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	3	3	6	6	6	3
CO-2	2.8	5.6		5.6	8.4	8.4	
CO-3	3		3	9	6	3	
CO-4	2.52	2.52	2.52	5.04	5.04	7.56	2.52
CO-5	3	6	3	3	6	6	3
Sum		17.12	11.52	28.64	31.44	30.96	8.52
Attainment		2.85	2.88	2.86	2.86	2.81	2.84

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/1

Course Name : WIRELESS SENSOR NETWORKS

Academic Year : 2023-2024

Course Code : 2215509

Regulation : M.TECH. (MLRS-R22)

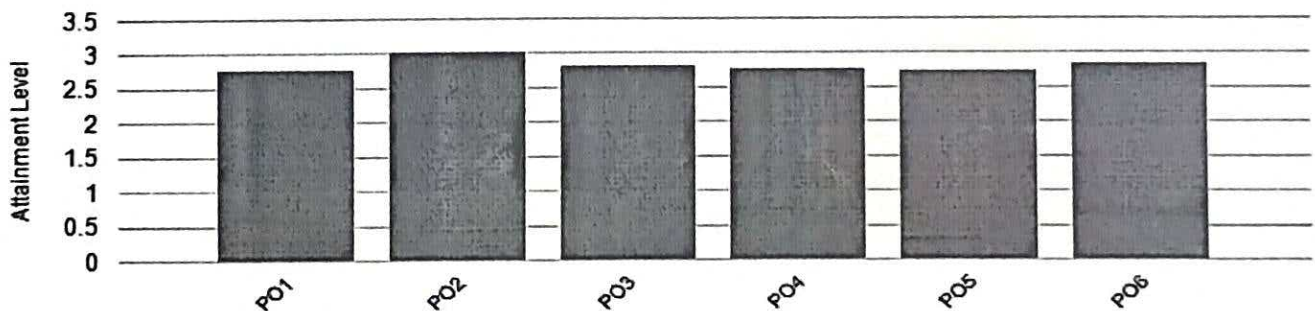
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	1	1	3	2		1
CO-2	3		2			2	3
CO-3	2.68	2		3		2	2
CO-4	3	3		2		1	2
CO-5	2.48	3		2	2	3	2
Sum		9	3	10	4	8	10

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	3	3	9	6		3
CO-2	3		6			6	9
CO-3	2.68	5.36		8.04		5.36	5.36
CO-4	3	9		6		3	6
CO-5	2.48	7.44		4.96	4.96	7.44	4.96
Sum		24.8	9	28	10.96	21.8	28.32
Attainment		2.76	3	2.8	2.74	2.73	2.83

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/1

Course Name : CMOS ANALOG IS DESIGN

Academic Year : 2023-2024

Course Code : 2215512

Regulation : M.TECH. (MLRS-R22)

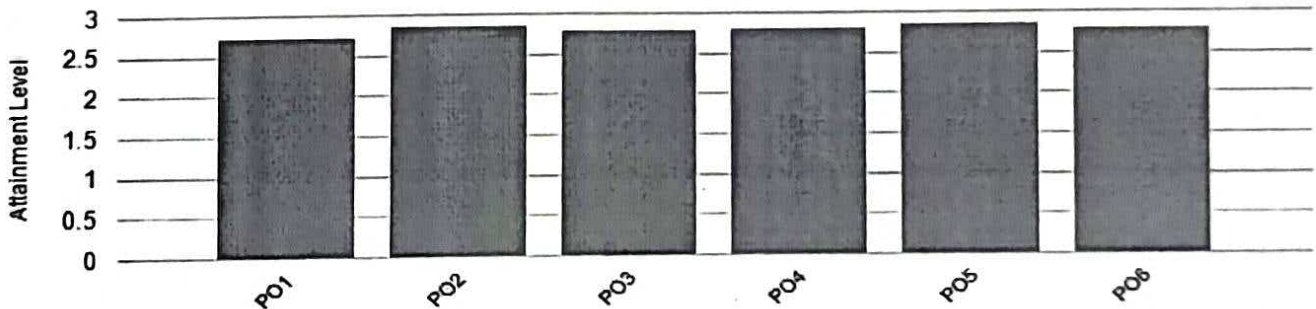
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3		1	1			1
CO-2	2.48	1		1			1
CO-3	3	1		1	1	2	1
CO-4	2.68	2	1	1	1	1	1
CO-5	2.68	1		1	1	1	1
Sum		5	2	5	3	4	5

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3		3	3			3
CO-2	2.48	2.48		2.48			2.48
CO-3	3	3		3	3	6	3
CO-4	2.68	5.36	2.68	2.68	2.68	2.68	2.68
CO-5	2.68	2.68		2.68	2.68	2.68	2.68
Sum		13.52	5.68	13.84	8.36	11.36	13.84
Attainment		2.7	2.84	2.77	2.79	2.84	2.77

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/1

Course Name : DIGITAL SYSTEM DESIGN WITH FPGAs LAB

Academic Year : 2023-2024

Course Code : 2215521

Regulation : M TECH. (MLRS-P22)

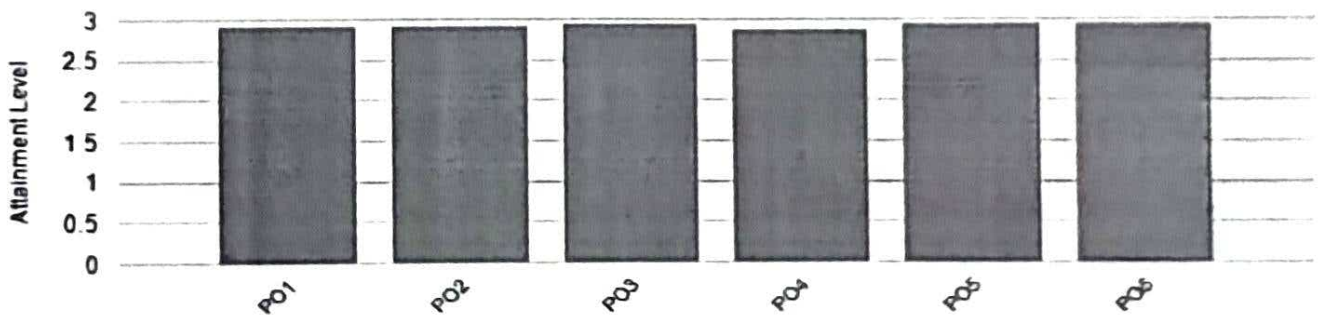
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	2	1	2		3	2
CO-2	3		3	3	2	2	2
CO-3	3	3	1	2		2	2
CO-4	2.8	2	2	2	2	2	3
CO-5	2.8	3	2	2	2	3	1
Sum		10	9	11	6	12	10

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	6	3	6		9	6
CO-2	3		9	9	6	6	6
CO-3	3	9	3	6		6	6
CO-4	2.8	5.6	5.6	5.6	5.6	5.6	8.4
CO-5	2.8	8.4	5.6	5.6	5.6	8.4	2.8
Sum		29	26.2	32.2	17.2	35	29.2
Attainment		2.9	2.91	2.93	2.87	2.92	2.92

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/1

Course Name : RESEARCH METHODOLOGY & IPR

Academic Year : 2023-2024

Course Code : 2215502

Regulation : M.TECH. (MLRS-R22)

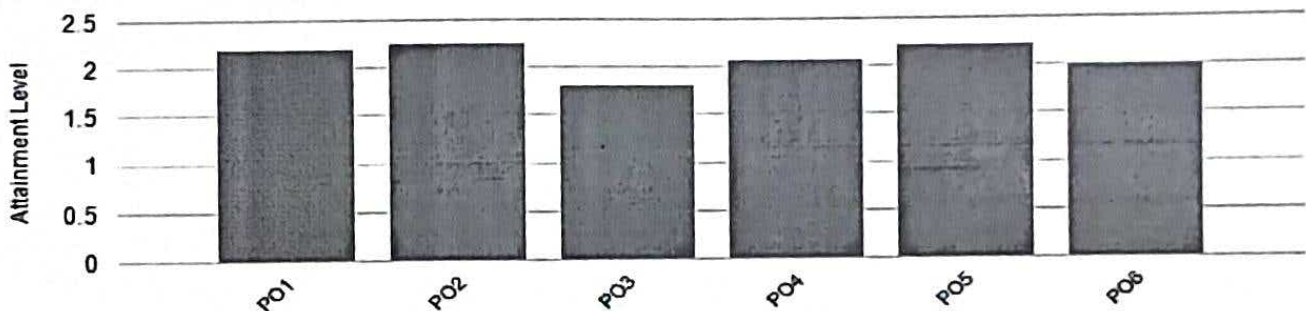
STRENGTH CORRELATION


CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.8	3	3		2		
CO-2	2.04	2	3	2		2	2
CO-3	3	2	3			2	2
CO-4	1.56	3	2	1	2		2
CO-5	1.56	2	3	1	1	2	3
Sum		24	28	8	10	12	18

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.8	8.4	8.4		5.6		
CO-2	2.04	4.08	6.12	4.08		4.08	4.08
CO-3	3	6	9			6	6
CO-4	1.56	4.68	3.12	1.56	3.12		3.12
CO-5	1.56	3.12	4.68	1.56	1.56	3.12	4.68
Sum		52.56	62.64	14.4	20.56	26.4	35.76
Attainment		2.19	2.24	1.8	2.06	2.2	1.99

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/1

Course Name : ENGLISH FOR RESEARCH PAPER WRITING

Academic Year : 2023-2024

Course Code : 2210001

Regulation : M.TECH. (MLRS-R22)

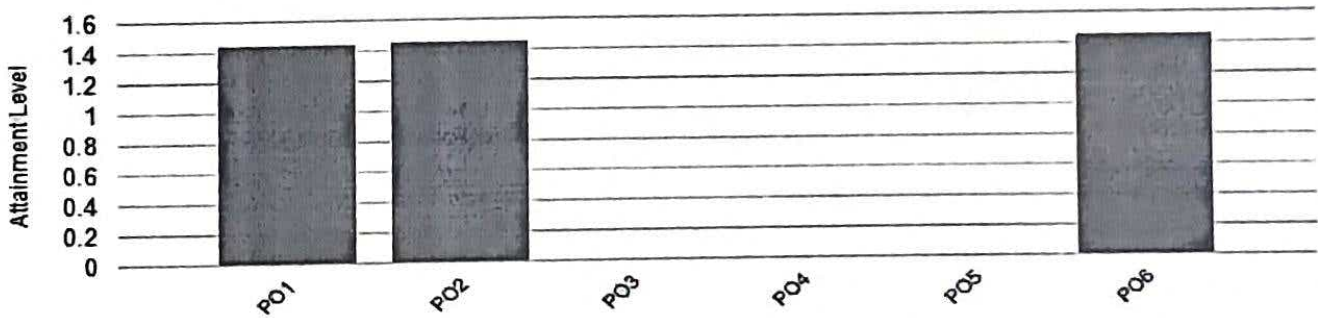
STRENGTH CORRELATION


CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.56	3	3				3
CO-2	1.56	2	3				2
CO-3	1.36	2	3				2
CO-4	1.16	3	3				2
CO-5	1.56	2	3				2
Sum		48	60				44

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.56	4.68	4.68				4.68
CO-2	1.56	3.12	4.68				3.12
CO-3	1.36	2.72	4.08				2.72
CO-4	1.16	3.48	3.48				2.32
CO-5	1.56	3.12	4.68				3.12
Sum		68.48	86.4				63.84
Attainment		1.43	1.44				1.45

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/2

Course Name : ARM MICROCONTROLLERS

Academic Year : 2023-2024

Course Code : 2225505

Regulation : M.TECH. (MLRS-R22)

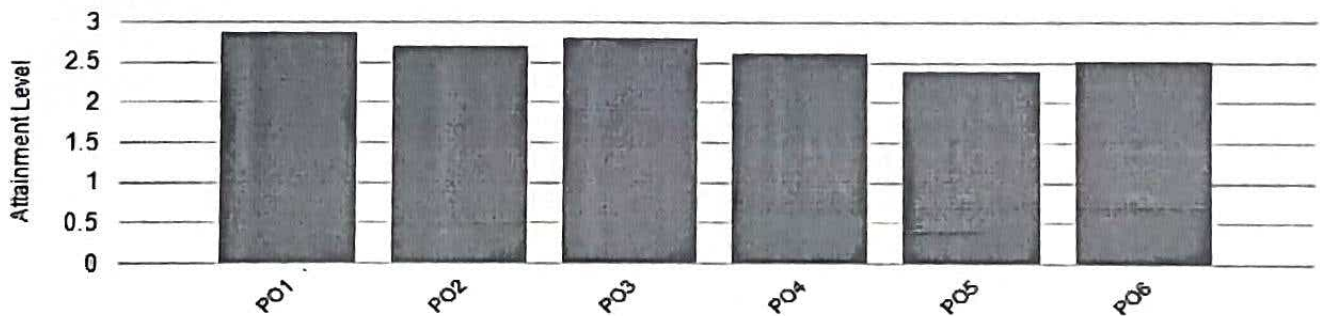
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	3	2	2	2		
CO-2	2.04		2		2	3	2
CO-3	3	3	3	2			2
CO-4	2.8	3		3	2	2	
CO-5	2.52	2	2	3		2	2
Sum		11	9	10	6	7	6

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	9	6	6	6		
CO-2	2.04		4.08		4.08	6.12	4.08
CO-3	3	9	9	6			6
CO-4	2.8	8.4		8.4	5.6	5.6	
CO-5	2.52	5.04	5.04	7.56		5.04	5.04
Sum		31.44	24.12	27.96	15.68	16.76	15.12
Attainment		2.86	2.68	2.8	2.61	2.39	2.52

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/2

Course Name : DIGITAL CONTROL SYSTEMS

Academic Year : 2023-2024

Course Code : 2225500

Regulation : M.TECH. (MLRS-R22)

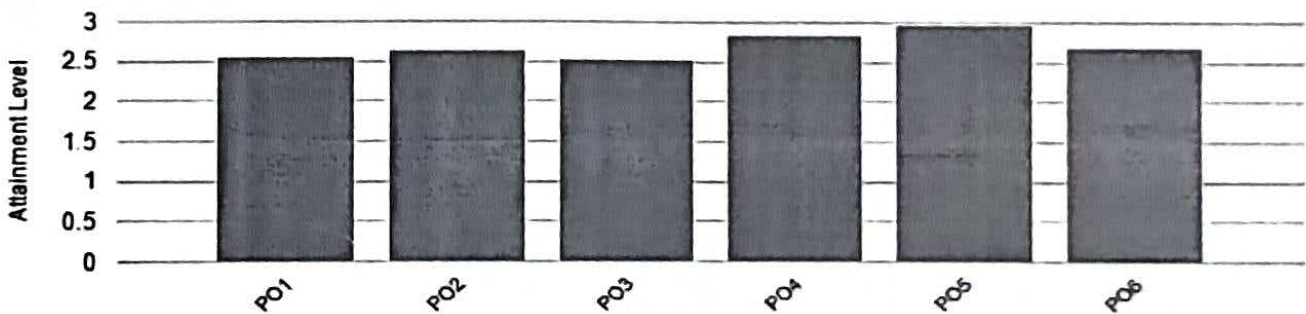
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3		3	2		3	1
CO-2	2.04	2	3	2			2
CO-3	2.8	2			2	2	2
CO-4	2.52	2	2	2	1		
CO-5	3	1	2		2	3	2
Sum		7	10	6	5	8	7

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3		9	6		9	3
CO-2	2.04	4.08	6.12	4.08			4.08
CO-3	2.8	5.6			5.6	5.6	5.6
CO-4	2.52	5.04	5.04	5.04	2.52		
CO-5	3	3	6		6	9	6
Sum		17.72	26.16	15.12	14.12	23.6	18.68
Attainment		2.53	2.62	2.52	2.82	2.95	2.67

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/2

Course Name : IOT ARCHITECTURES AND SYSTEM DESIGN

Academic Year : 2023-2024

Course Code : 2225513

Regulation : M.TECH. (MLRS-R22)

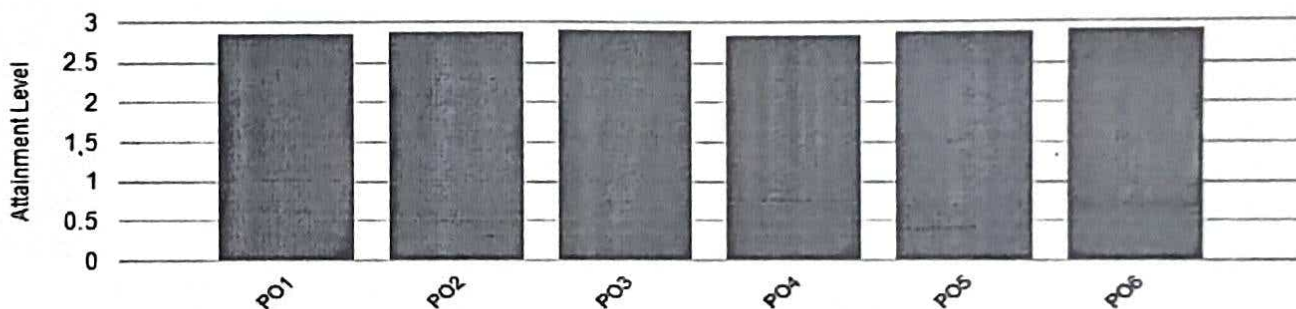
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3		1	2			2
CO-2	3	3	2	3			1
CO-3	3	1	1	3	3	2	2
CO-4	3	2	1	2	2	3	2
CO-5	2.52	3	2	3	3	2	2
Sum		9	7	13	8	7	9

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3		3	6			6
CO-2	3	9	6	9			3
CO-3	3	3	3	9	9	6	6
CO-4	3	6	3	6	6	9	6
CO-5	2.52	7.56	5.04	7.56	7.56	5.04	5.04
Sum		25.56	20.04	37.56	22.56	20.04	26.04
Attainment		2.84	2.86	2.89	2.82	2.86	2.89

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PO ATTAINMENT (DIRECT)

Program: M.Tech

Year / Sem: 1/3

Course Name: HARDWARE AND SOFTWARE CO DESIGN

Academic Year: 2023-2024

Course Code: 2225510

Regulation: M.TECH (MLPS-022)

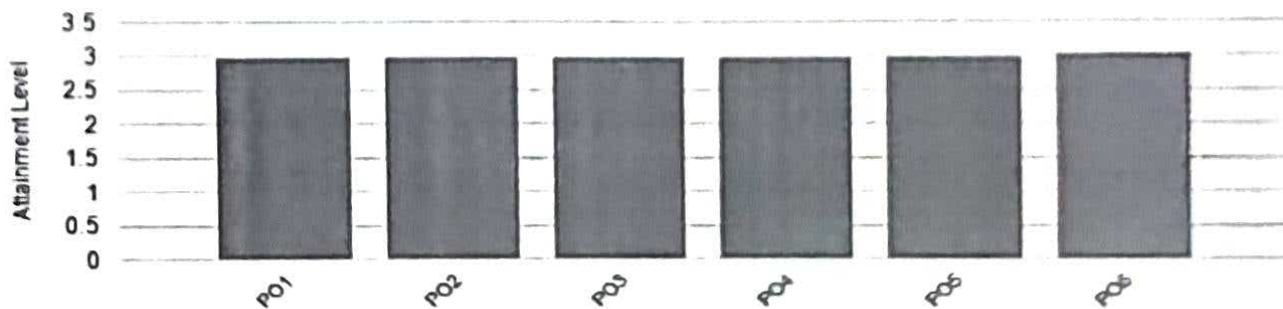
STRENGTH CORRELATION

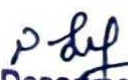
CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.8	3	1	2	3	3	
CO-2	3	3	1	2	2	3	2
CO-3	3	3	1	2	2	3	3
CO-4	3	2	1	2	2	3	
CO-5	3	2	1	2	2	2	3
Sum		13	5	10	11	14	8

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.8	8.4	2.8	5.6	8.4	8.4	
CO-2	3	9	3	6	6	9	6
CO-3	3	9	3	6	6	9	9
CO-4	3	6	3	6	6	9	
CO-5	3	6	3	6	6	6	9
Sum		38.4	14.8	29.6	32.4	41.4	24
Attainment		2.95	2.96	2.96	2.95	2.95	3

PO ATTAINMENT (DIRECT)




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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/2

Course Name : ARM MICROCONTROLLERS LAB

Academic Year : 2023-2024

Course Code : 2225523

Regulation : M.TECH. (MLRS-R22)

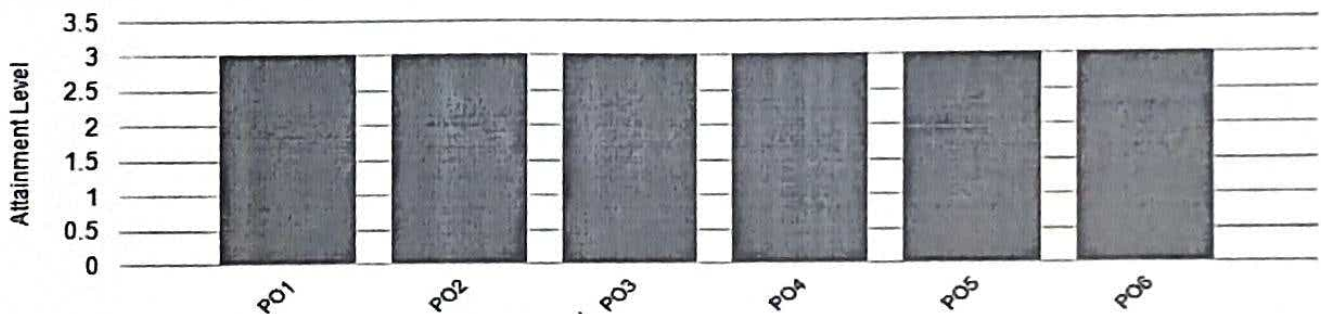
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	2	1	3	3	3	2
CO-2	3	3	2	2	2	3	2
CO-3	3	2	1	3	3	3	3
CO-4	3	3	2	2	2	2	1
CO-5	3	1	1	2	2	2	2
Sum		11	7	12	12	13	10

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	6	3	9	9	9	6
CO-2	3	9	6	6	6	9	6
CO-3	3	6	3	9	9	9	9
CO-4	3	9	6	6	6	6	3
CO-5	3	3	3	6	6	6	6
Sum		33	21	36	36	39	30
Attainment		3	3	3	3	3	3

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/2

Course Name : DIGITAL CONTROL SYSTEMS LAB

Academic Year : 2023-2024

Course Code : 2225524

Regulation : M.TECH. (MLRS-R22)

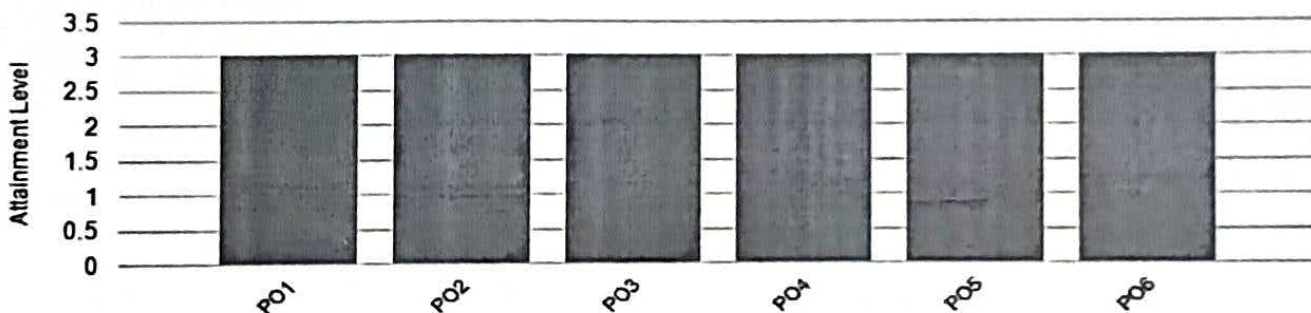
STRENGTH CORRELATION


CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	2	1	3	3		2
CO-2	3	3	1	2	2	3	2
CO-3	3	2	1	3	2	2	2
CO-4	3	1	2	3	2	2	3
CO-5	3	3	2	2	3	1	2
Sum		11	7	13	12	8	11

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	6	3	9	9		6
CO-2	3	9	3	6	6	9	6
CO-3	3	6	3	9	6	6	6
CO-4	3	3	6	9	6	6	9
CO-5	3	9	6	6	9	3	6
Sum		33	21	39	36	24	33
Attainment		3	3	3	3	3	3

PO ATTAINMENT (DIRECT)




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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Course Name : MINI PROJECT WITH SEMINAR

Course Code : 2225525

Year / Sem : 1/2

Academic Year : 2023-2024

Regulation : M.TECH. (MLRS-R22)

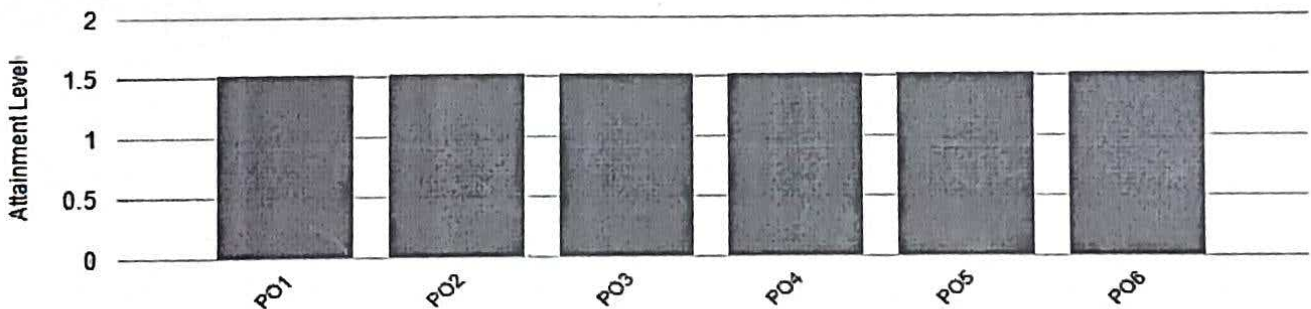
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.56	3	3	3	3	3	3
CO-2	1.56	3	3	3	3	3	3
CO-3	1.36	3	3	3	3	3	3
CO-4	1.56	3	3	3	3	3	3
CO-5	1.56	3	3	3	3	3	3
Sum		15	15	15	15	15	15

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.56	4.68	4.68	4.68	4.68	4.68	4.68
CO-2	1.56	4.68	4.68	4.68	4.68	4.68	4.68
CO-3	1.36	4.08	4.08	4.08	4.08	4.08	4.08
CO-4	1.56	4.68	4.68	4.68	4.68	4.68	4.68
CO-5	1.56	4.68	4.68	4.68	4.68	4.68	4.68
Sum		22.8	22.8	22.8	22.8	22.8	22.8
Attainment		1.52	1.52	1.52	1.52	1.52	1.52

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/2

Course Name : PEDAGOGY STUDIES

Academic Year : 2023-2024

Course Code : 2220006

Regulation : M.TECH. (MLRS-R22)

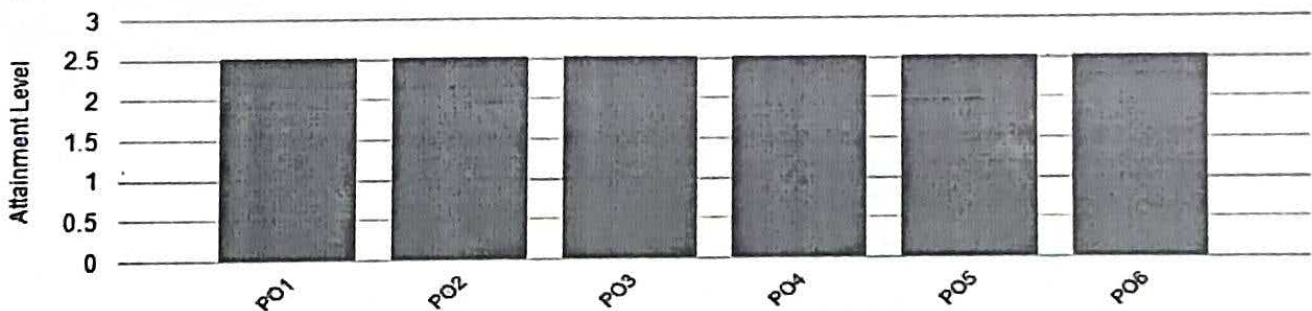
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.56	1	1	1	1	1	1
CO-2	1.56	1	1	1	2	1	1
CO-3	1.56	1	1	1	1	1	1
CO-4	1.56	1	1	2	2	2	1
CO-5	1.56	2	1	1	1	2	1
Sum		48	81	51	51	60	66

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.56	1.56	1.56	1.56	1.56	1.56	1.56
CO-2	1.56	1.56	1.56	1.56	3.12	1.56	1.56
CO-3	1.56	1.56	1.56	1.56	1.56	1.56	1.56
CO-4	1.56	1.56	1.56	3.12	3.12	3.12	1.56
CO-5	1.56	3.12	1.56	1.56	1.56	3.12	1.56
Sum		120.96	204.12	128.52	128.52	151.2	166.32
Attainment		2.52	2.52	2.52	2.52	2.52	2.52

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 2/3

Course Name : EMBEDDED NETWORKS

Academic Year : 2024-2025

Course Code : 2235519

Regulation : M.TECH. (MLRS-R22)

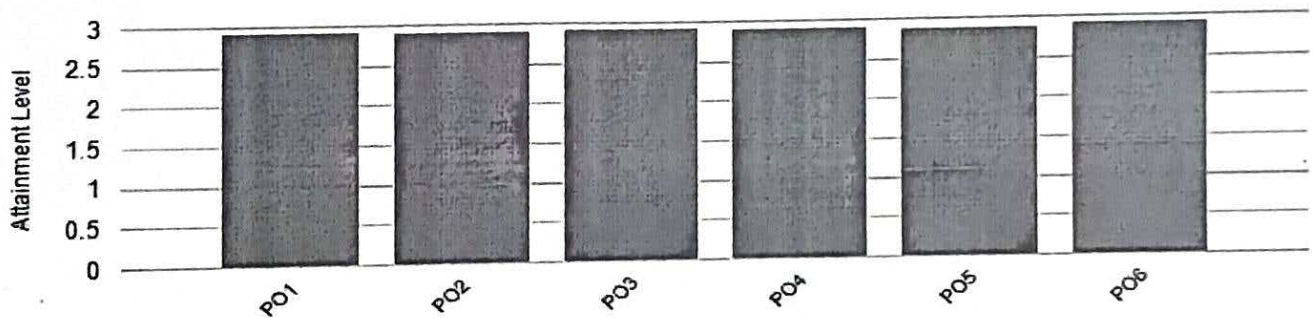
STRENGTH CORRELATION


CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	2	2	3	3	2	2
CO-2	3	2	1	3	2	1	2
CO-3	2.52	2	2	3	3	3	2
CO-4	3	2	1	3	2	2	3
CO-5	3	3	2	2	3	2	2
Sum		11	8	14	13	10	11

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	6	6	9	9	6	6
CO-2	3	6	3	9	6	3	6
CO-3	2.52	5.04	5.04	7.56	7.56	7.56	5.04
CO-4	3	6	3	9	6	6	9
CO-5	3	9	6	6	9	6	6
Sum		32.04	23.04	40.56	37.56	28.56	32.04
Attainment		2.91	2.88	2.9	2.89	2.86	2.91

PO ATTAINMENT (DIRECT)




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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 2/3

Course Name : FAULT TOLERANCE SYSTEMS

Academic Year : 2024-2025

Course Code : 2235848

Regulation : M.TECH. (MLPS-P22)

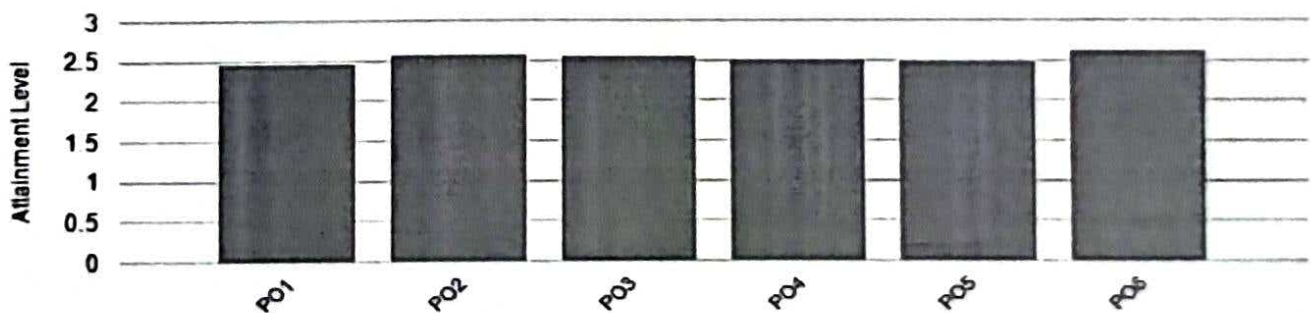
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.68	2	2	3	2	3	1
CO-2	3	3	1	2	2	2	2
CO-3	2.68	2	2	3	2	1	3
CO-4	1.4	3	1	2	2	2	1
CO-5	2.68	2	2	3	2	1	2
Sum		12	8	13	10	9	9

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.68	5.36	5.36	8.04	5.36	8.04	2.68
CO-2	3	9	3	6	6	6	6
CO-3	2.68	5.36	5.36	8.04	5.36	2.68	8.04
CO-4	1.4	4.2	1.4	2.8	2.8	2.8	1.4
CO-5	2.68	5.36	5.36	8.04	5.36	2.68	5.36
Sum		29.28	20.48	32.92	24.88	22.2	23.48
Attainment		2.44	2.56	2.53	2.49	2.47	2.61

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 2/3

Course Name : DISSERTATION WORK REVIEW-I

Academic Year : 2024-2025

Course Code : 2235528

Regulation : M.TECH. (MLRS-R22)

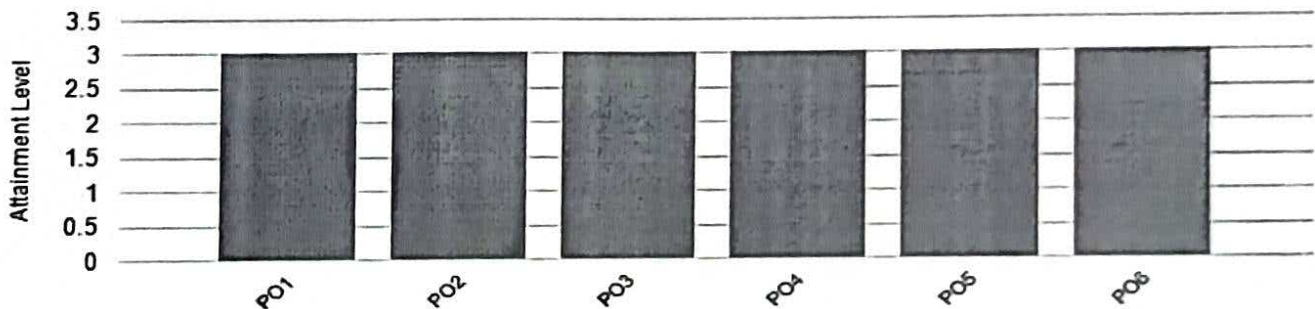
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	3	3	3	3	3	3
CO-2	3	3	3	3	3	3	3
CO-3	3	3	3	3	3	3	3
CO-4	3	3	3	3	3	3	3
CO-5	3	3	3	3	3	3	3
Sum		15	15	15	15	15	15

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	9	9	9	9	9	9
CO-2	3	9	9	9	9	9	9
CO-3	3	9	9	9	9	9	9
CO-4	3	9	9	9	9	9	9
CO-5	3	9	9	9	9	9	9
Sum		45	45	45	45	45	45
Attainment		3	3	3	3	3	3

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 2/4

Course Name : DISSERTATION WORK REVIEW II

Academic Year : 2024-2025

Course Code : 2245527

Regulation : M TECH (MLPS-P22)

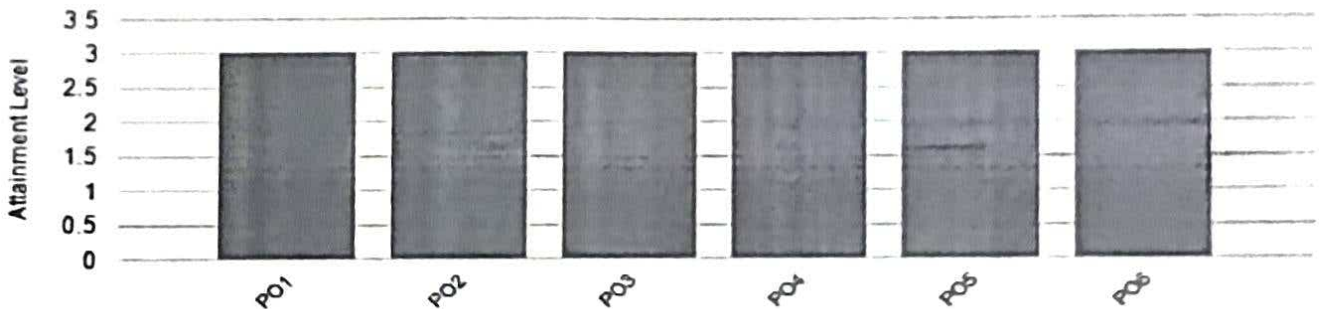
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	3	3	3	3	3	3
CO-2	3	3	3	3	3	3	3
CO-3	3	3	3	3	3	3	3
CO-4	3	3	3	3	3	3	3
CO-5	3	3	3	3	3	3	3
Sum		15	15	15	15	15	15

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	9	9	9	9	9	9
CO-2	3	9	9	9	9	9	9
CO-3	3	9	9	9	9	9	9
CO-4	3	9	9	9	9	9	9
CO-5	3	9	9	9	9	9	9
Sum		45	45	45	45	45	45
Attainment		3	3	3	3	3	3

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 2/4

Course Name : DISSERTATION VIVA-VOCE

Academic Year : 2024-2025

Course Code : 2245528

Registration : M.TECH. (MLRS-R22)

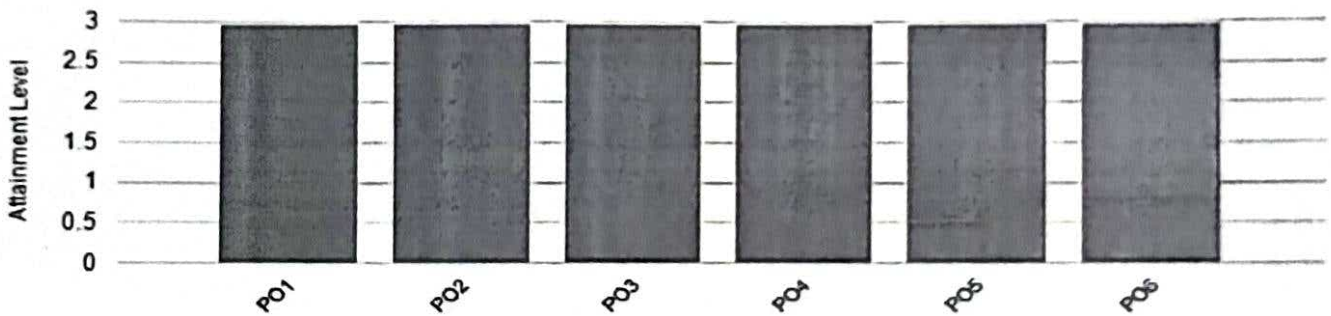
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	3	3	3	3	3	3
CO-2	3	3	3	3	3	3	3
CO-3	2.8	3	3	3	3	3	3
CO-4	3	3	3	3	3	3	3
CO-5	3	3	3	3	3	3	3
Sum		15	15	15	15	15	15

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	9	9	9	9	9	9
CO-2	3	9	9	9	9	9	9
CO-3	2.8	8.4	8.4	8.4	8.4	8.4	8.4
CO-4	3	9	9	9	9	9	9
CO-5	3	9	9	9	9	9	9
Sum		44.4	44.4	44.4	44.4	44.4	44.4
Attainment		2.96	2.96	2.96	2.96	2.96	2.96

PO ATTAINMENT (DIRECT)



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