



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)

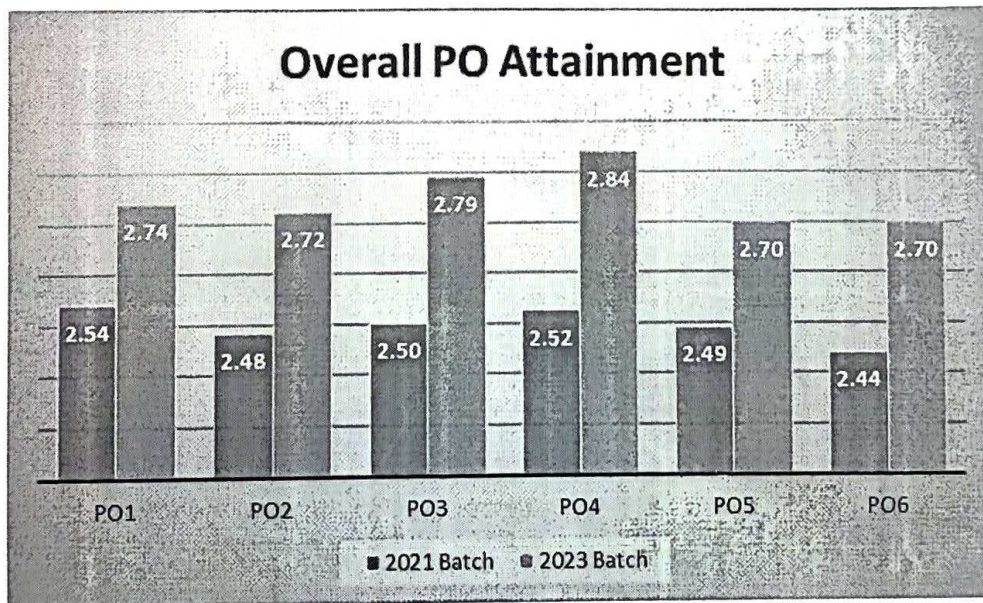
6.1. B. Identification of gaps/shortfalls (05)

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.

Table 6.1.B: Actions and Measures for PO Attainment Improvement for MLRS-R20 (2021–23)

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POs	Target Level	Attainment Level	Observations
PO1 - An ability to independently carry out research /investigation and development work to solve practical problems.			
PO1	2.09	2.54	Target is achieved The attainment statistics of PO1 is as follows: PO Average: 2.50 PO Target: 80% of PO Average
Action 1: Facilitated access to advanced software tools and simulation platforms for system design through laboratories such as Embedded Linux, Microcontrollers and Programmable DSP, Communication, PLDs, and Signal Processing. Action 2: Implemented outcome-based assessment rubrics that emphasize originality, analytical thinking, and practical application. Action 3: Encouraged students to actively participate in national and international conferences, hackathons, and technical symposiums. Action 4: Motivated students to transform their project work into research publications or technology disclosures.			
PO2 - An ability to write and present a substantial technical report/document			
PO2	1.67	2.48	Target is achieved The attainment statistics of PO2 is as follows: PO Average: 1.90 PO Target: 80% of PO Average
Action 1: Organised training programs to raise awareness about plagiarism, methods to reduce similarity index, and ethical practices in research writing. Action 2: Introduced assignments and technical paper presentations to enhance students' skills in technical writing, documentation, and oral communication. Action 3: Promoted the inclusion of simulation outputs, graphs, tables, and comparative evaluations to strengthen the technical quality of reports. Action 4: To fill the gaps, different guest lectures were conducted			
PO3: Students should be able to demonstrate a degree of mastery in Embedded Systems.			
PO3	2.35	2.50	Target is achieved The attainment statistics of PO3 is as follows: PO Average: 2.36 PO Target: 80% of PO Average
Action 1: Conducted advanced laboratory experiments utilizing industry-standard embedded platforms and development kits. Action 2: Designed mini-projects and capstone projects focused on real-time embedded system applications. Action 3: Adopted e-learning (DSS) resources along with structured assessments to promote conceptual understanding and proficiency in embedded systems. Action 4: Introduced problem-based learning approaches to strengthen system-level design and implementation capabilities.			
PO4: Acquire and apply engineering principles to design embedded systems and processes that address complex real-world problems			
PO4	2.28	2.52	Target is achieved The attainment statistics of PO4 is as follows: PO Average: 2.31 PO Target: 80% of PO Average
Action 1: Implemented interdisciplinary projects that integrate embedded systems with IoT and control			

systems.

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

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

Action 4: Encouraged the development of embedded prototypes aimed at meeting societal and industrial requirements.

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

PO5	1.13	2.49	Target is achieved The attainment statistics of PO5 is as follows: PO Average: 2.25 PO Target: 80% of PO Average
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Action 1: Incorporated industry-standard embedded tools and simulation software into laboratory sessions and project activities.

Action 2: Employed virtual labs and simulation platforms to facilitate experimentation and prototyping.

Action 3: Enabled students to use DSP labs, Cadence, and embedded toolchains for system modeling, analysis, and validation.

Action 4: Designed assessment rubrics that evaluate effective tool utilization, quality of experimentation, and sustainability aspects.

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


PO6	1.83	2.44	Target is achieved The attainment statistics of PO6 is as follows: PO Average: 2.19 PO Target: 80% of PO Average
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Action 1: Students were encouraged to participate in workshops and certification programs related to Embedded Systems, Cadence, and VLSI technologies.

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

Action 3: Access to e-learning platforms and digital libraries such as DELNET, INFLIBNET, Knimbus, and various e-journals was provided to support continuous skill development.

Action 4: Industry-focused 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 2021 (MLRS R-20)

S.No	Indirect Parameter	PO1	PO2	PO3	PO4	PO5	PO6
	PO Direct Attainment	2.55	2.54	2.5	2.53	2.55	2.55
1	Program Exit Survey (PES)	2.00	2.00	2.00	2.00	2.00	2.00
2	Alumni Survey (AS)	3.00	3.00	3.00	3.00	3.00	2.00
3	Employer Survey (ES)	3.00	2.00	3.00	3.00	2.00	2.00
	Final PO Attainment = 80% Direct + 20 % Indirect (0.1PES+0.05AS+0.05ES))	2.54	2.48	2.50	2.52	2.49	2.44

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PO ATTAINMENT 2021 (R-21)

SN	Year /SEM	Course Name	Course Code	PO1	PO2	PO3	PO4	PO5	PO6
1	I-I	Microcontrollers & Programmable Digital Signal Proc	2015503	2.17	2.28	2.26	2.27	2.09	1.68
2	I-I	System Design with Embedded Linux	2015504	2.41	2.34	2.34	2.37	2.39	2.37
3	I-I	Programming Languages for Embedded Software	2015507	1.67	1.72	1.70	1.65	1.85	1.88
4	I-I	Communications Buses & Interfaces	2015510	1.98	2.11	2.02	2.10	1.96	2.44
5	I-I	Microcontrollers & Programmable Digital Signal Processors Lab	2015521	2.95	2.89	2.92	3.00	3.00	2.85
6	I-I	System Design with Embedded Linux Lab	2015522	2.83	2.80	2.84	2.84	2.84	2.84
7	I-I	Research Methodology & IPR	2015502	2.08	2.08	1.78	2.10	2.00	1.96
8	I-I	English for Research Paper Writing and its significar	2015528	3.00	3.00				3.00
9	I-II	RTL Simulation and Synthesis with PLDs	2025505	1.76	1.86	1.74	1.73	1.75	1.79
10	I-II	Advanced Digital Signal Processing	2025506	2.54	2.48	2.62	2.56	2.52	2.46
11	I-II	IoT & Applications	2025513	2.69	2.59	2.51	2.69	2.64	2.65
12	I-II	Hardware and Software Co-Design	2025516	2.27	2.32	2.32	2.31	2.30	2.27
13	I-II	RTL Simulation and Synthesis with PLDs Lab	2025523	2.92	2.93	2.96	2.93	2.94	2.91
14	I-II	Advanced Digital Signal Processing Lab	2025524	2.85	2.88	2.89	2.85	2.89	2.90
15	I-II	Mini Project with Seminar	2025525	2.92	2.92	2.92	2.92	2.92	2.92
16	I-II	Pedagogy Studies	2021234		2.92			2.90	2.90
17	II-I	Wireless Sensor Networks	2035521	2.63	2.07	2.55	2.48	2.55	2.44
18	II-I	Energy from Waste	2034032	2.64	2.51	2.44	2.50	2.69	2.59
19	II-I	Dissertation Phase -I	2035526	2.92	2.92	2.92	2.92	2.92	2.92
20	II-II	Dissertation Phase-II	2045527	2.88	2.88	2.88	2.88	2.88	2.88
21	II-II	Dissertation Viva - Voce	2045528	2.96	2.96	2.96	2.96	2.96	2.96
Average				2.55	2.54	2.5	2.53	2.55	2.55

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/1

Course Name : Microcontrollers and Programmable Digital Signal

Academic Year : 2021-2022

Course Code : 2015503

Regulation : M.TECH. (MLRS-R20)

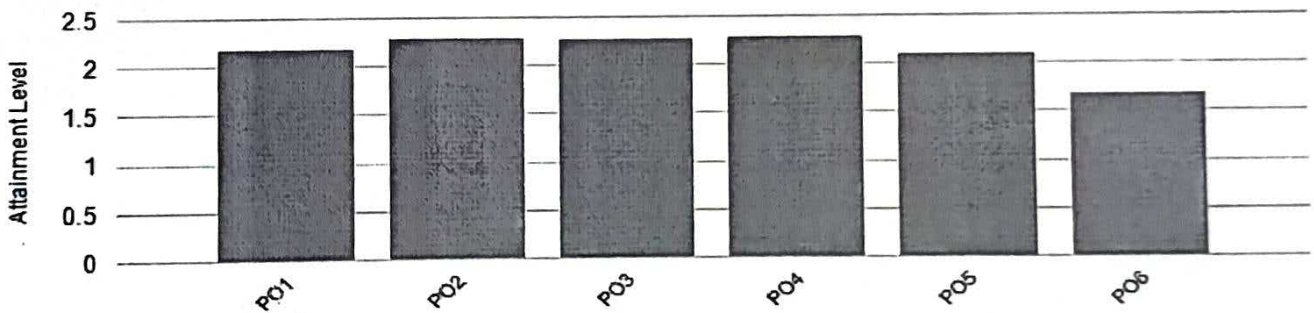
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.44	3	3	3	2	1	
CO-2	1.68	3	1	2	2	2	2
CO-3	2.44		1	2	2		
CO-4	2.44	2		2	3		
CO-5	2.24	2	1	3	2	3	
Sum		10	6	12	11	6	2

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.44	7.32	7.32	7.32	4.88	2.44	
CO-2	1.68	5.04	1.68	3.36	3.36	3.36	3.36
CO-3	2.44		2.44	4.88	4.88		
CO-4	2.44	4.88		4.88	7.32		
CO-5	2.24	4.48	2.24	6.72	4.48	6.72	
Sum		21.72	13.68	27.16	24.92	12.52	3.36
Attainment		2.17	2.28	2.26	2.27	2.09	1.68

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Course Name : System Design With Embedded Linux

Course Code : 2015504

Year / Sem : 1/1

Academic Year : 2021-2022

Regulation : M.TECH. (MLRS-R20)

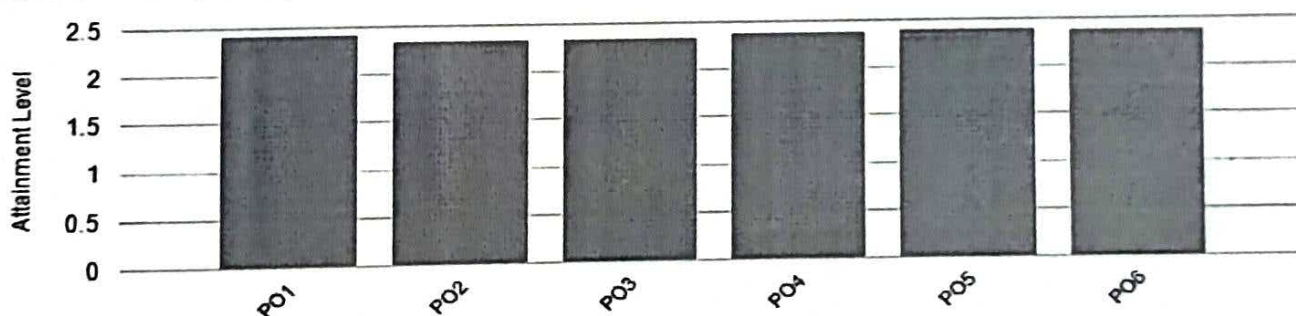
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.24	1	1	2	2	2	1
CO-2	2.44	2		2	3	3	
CO-3	2.24		1	3	2	1	
CO-4	2.44	1	1	2	2	3	1
CO-5	2.44	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	2.24	2.24	2.24	4.48	4.48	4.48	2.24
CO-2	2.44	4.88		4.88	7.32	7.32	
CO-3	2.24		2.24	6.72	4.48	2.24	
CO-4	2.44	2.44	2.44	4.88	4.88	7.32	2.44
CO-5	2.44	4.88	2.44	2.44	4.88	4.88	2.44
Sum		14.44	9.36	23.4	26.04	26.24	7.12
Attainment		2.41	2.34	2.34	2.37	2.39	2.37

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Course Name : Programming Languages for Embedded Software

Course Code : 2015507

Year / Sem : 1/1

Academic Year : 2021-2022

Regulation : M.TECH. (MLRS-R20)

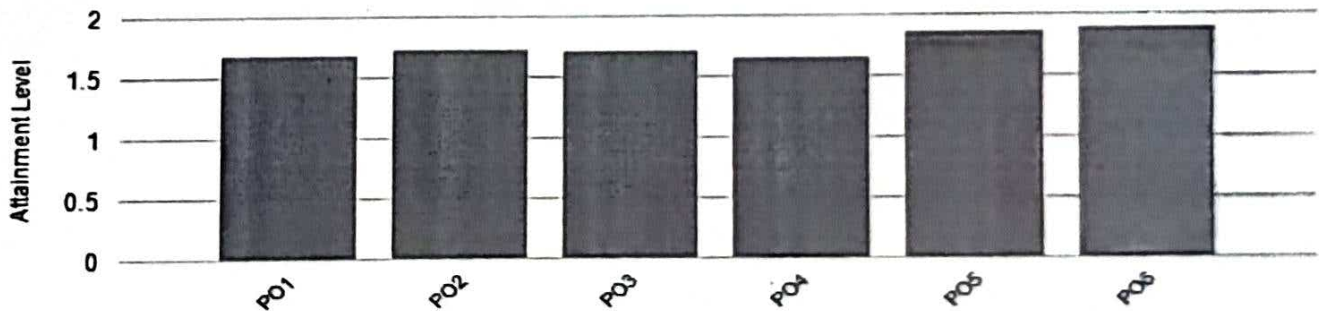
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.68	2	1	3	2	1	
CO-2	1.88		2	2	2	2	2
CO-3	1.68	3	1	2	2		
CO-4	1.32	2	1	2	3		
CO-5	1.88	3	1	3	2	3	
Sum		10	6	12	11	6	2

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.68	3.36	1.68	5.04	3.36	1.68	
CO-2	1.88		3.76	3.76	3.76	3.76	3.76
CO-3	1.68	5.04	1.68	3.36	3.36		
CO-4	1.32	2.64	1.32	2.64	3.96		
CO-5	1.88	5.64	1.88	5.64	3.76	5.64	
Sum		16.68	10.32	20.44	18.2	11.08	3.76
Attainment		1.67	1.72	1.7	1.65	1.85	1.88

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/1

Course Name : Communication Buses and Interfaces

Academic Year : 2021-2022

Course Code : 2015510

Regulation : M.TECH. (MLRS-R20)

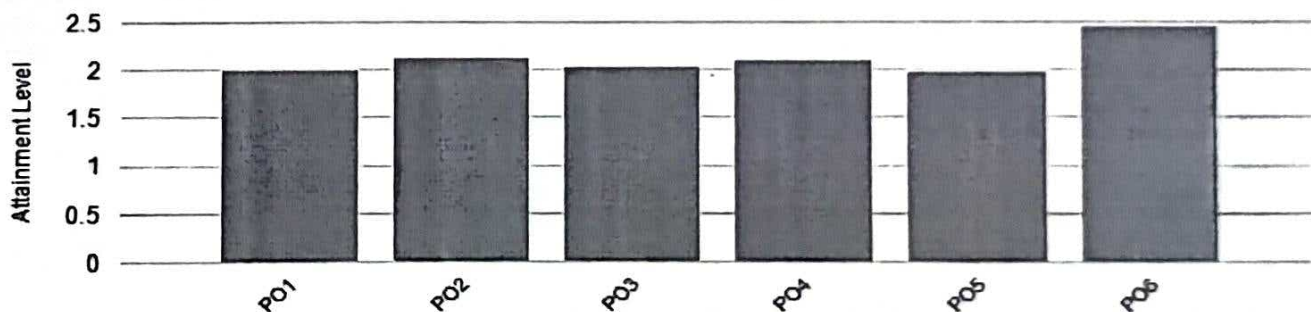
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.88	2	1	3	2	1	
CO-2	2.44		1	2	2	2	2
CO-3	1.68	2		2	2	2	
CO-4	2.44	3	1	3	3	1	
CO-5	1.68	2	1	3	1	3	
Sum		9	4	13	10	9	2

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.88	3.76	1.88	5.64	3.76	1.88	
CO-2	2.44		2.44	4.88	4.88	4.88	4.88
CO-3	1.68	3.36		3.36	3.36	3.36	
CO-4	2.44	7.32	2.44	7.32	7.32	2.44	
CO-5	1.68	3.36	1.68	5.04	1.68	5.04	
Sum		17.8	8.44	26.24	21	17.6	4.88
Attainment		1.98	2.11	2.02	2.1	1.96	2.44

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/1

Course Name : Microcontrollers and Programmable Digital Signal

Academic Year : 2021-2022

Course Code : 2015521

Regulation : M.TECH. (MLRS-R20)

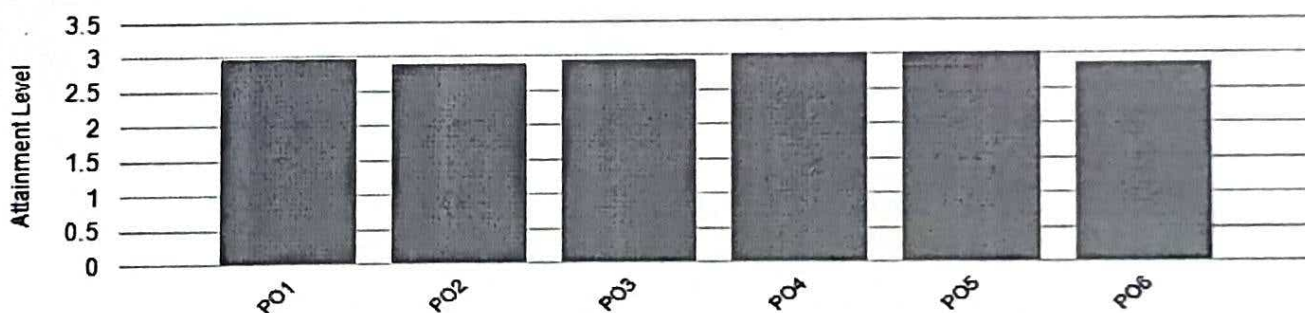
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.8	2	2	2			3
CO-2	2.8	1	2	3			3
CO-3	3	3	1	3	3	3	
CO-4	3	3	1	2	2	2	2
CO-5	3	2	1	3	1	2	
Sum		11	7	13	6	7	8

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.8	5.6	5.6	5.6			8.4
CO-2	2.8	2.8	5.6	8.4			8.4
CO-3	3	9	3	9	9	9	
CO-4	3	9	3	6	6	6	6
CO-5	3	6	3	9	3	6	
Sum		32.4	20.2	38	18	21	22.8
Attainment		2.95	2.89	2.92	3	3	2.85

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/1

Course Name : System Design with Embedded Linux Lab

Academic Year : 2021-2022

Course Code : 2015522

Regulation : M.TECH. (MLRS-R20)

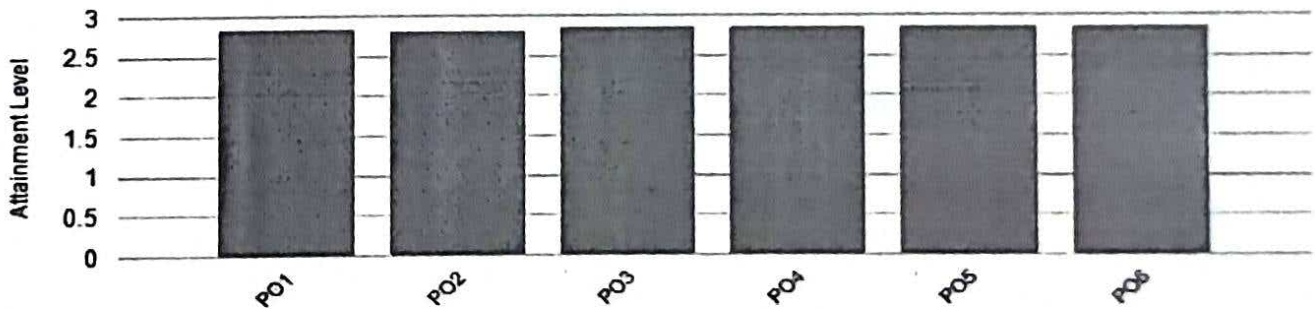
STRENGTH CORRELATION

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

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.8	2.8	2.8	5.6	5.6	8.4	2.8
CO-2	2.8	5.6	2.8	8.4	5.6	5.6	2.8
CO-3	2.8		2.8	5.6	8.4	5.6	2.8
CO-4	3	3		6	6	6	3
CO-5	2.8	5.6	2.8	5.6	5.6	5.6	2.8
Sum		17	11.2	31.2	31.2	31.2	14.2
Attainment		2.83	2.8	2.84	2.84	2.84	2.84

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Course Name : Research Methodology and IPR

Course Code : 2015502

Year / Sem : 1/1

Academic Year : 2021-2022

Regulation : M.TECH. (MLRS-R20)

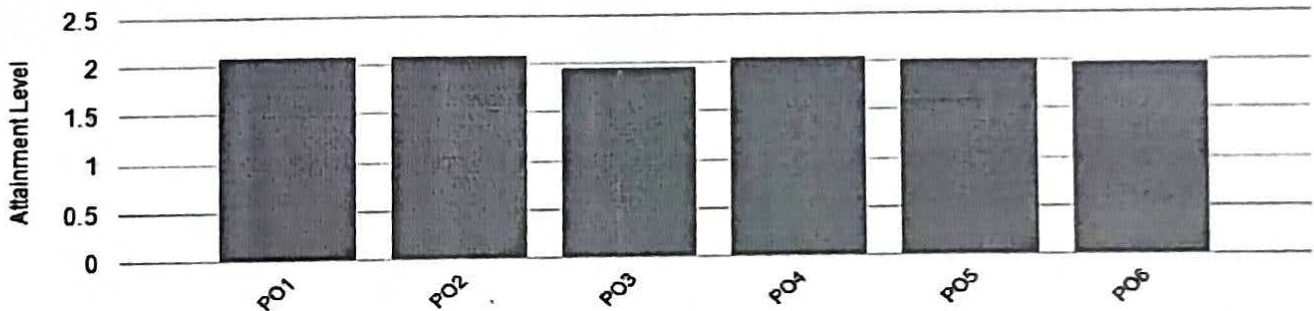
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.44	3					
CO-2	1.68	1					2
CO-3	2.44		3				
CO-4	1.88			3	1		
CO-5	1.88			1	1	3	
Sum		28	30	20	19	20	24

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.44	7.32					
CO-2	1.68	1.68					3.36
CO-3	2.44		7.32				
CO-4	1.88			5.64	1.88		
CO-5	1.88			1.88	1.88	5.64	
Sum		58.36	62.48	39.04	38.68	40.16	47.08
Attainment		2.08	2.08	1.95	2.04	2.01	1.96

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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Course Name : English for Research Paper Writing

Course Code : 2015508

Year / Sem : 1/1

Academic Year : 2021-2022

Regulation : M.TECH. (MLRS-R20)

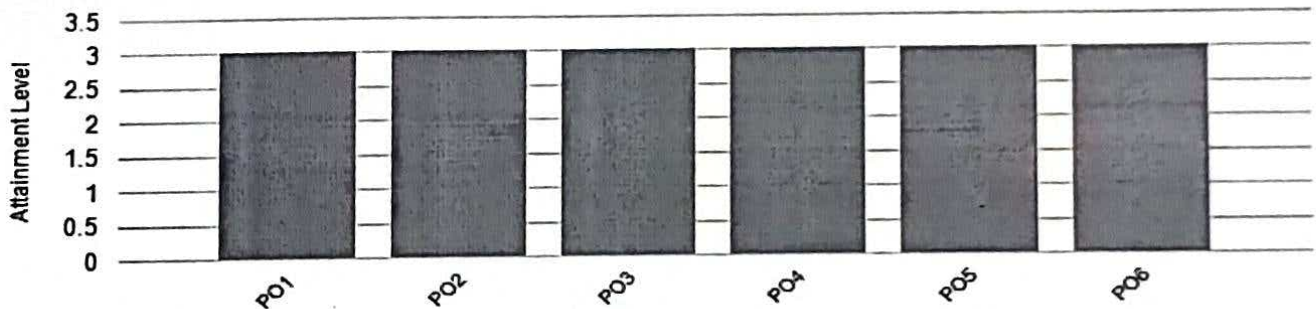
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	3	3				3
CO-2	3	2	3				2
CO-3	3	2	3				2
CO-4	3	3	3				2
CO-5	3	2	3				2
Sum		22	27	11	10	9	23

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	9	9				9
CO-2	3	6	9				6
CO-3	3	6	9				6
CO-4	3	9	9				6
CO-5	3	6	9				6
Sum		66	81	33	30	27	69
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 : RTL Simulation and Synthesis with PLDs

Academic Year : 2021-2022

Course Code : 2025505

Regulation : M.TECH. (MLRS-R20)

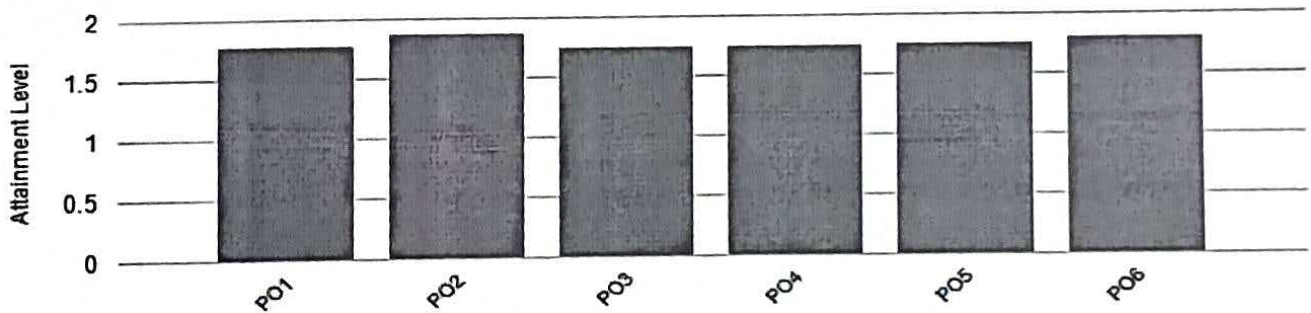
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2	3	3	2	2	2	1
CO-2	1.64	3	2	2	2	2	2
CO-3	1.4	3		2	2	2	
CO-4	1.64			2	3	3	2
CO-5	2	3		2	2	3	2
Sum		12	5	10	11	12	7

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2	6	6	4	4	4	2
CO-2	1.64	4.92	3.28	3.28	3.28	3.28	3.28
CO-3	1.4	4.2		2.8	2.8	2.8	
CO-4	1.64			3.28	4.92	4.92	3.28
CO-5	2	6		4	4	6	4
Sum		21.12	9.28	17.36	19	21	12.56
Attainment		1.76	1.86	1.74	1.73	1.75	1.79

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Course Name : Advanced Digital Signal Processing

Course Code : 2025506

Year / Sem : 1/2

Academic Year : 2021-2022

Regulation : M.TECH. (MLRS-R20)

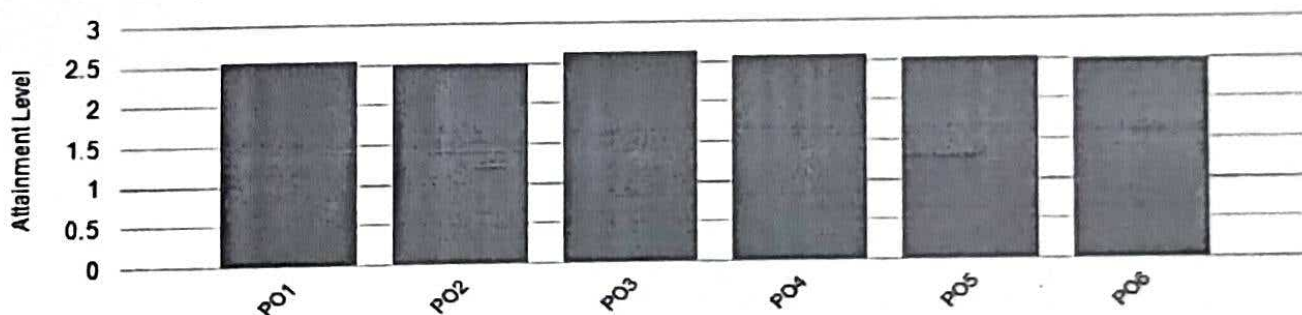
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.44	1	1		1	1	2
CO-2	2.56	3	1	2	2	3	2
CO-3	2.52	3	3	3	2	2	1
CO-4	2.76	2	1		3	1	3
CO-5	2.76	3	2	3	3	3	3
Sum		12	8	8	11	10	11

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.44	1.44	1.44		1.44	1.44	2.88
CO-2	2.56	7.68	2.56	5.12	5.12	7.68	5.12
CO-3	2.52	7.56	7.56	7.56	5.04	5.04	2.52
CO-4	2.76	5.52	2.76		8.28	2.76	8.28
CO-5	2.76	8.28	5.52	8.28	8.28	8.28	8.28
Sum		30.48	19.84	20.96	28.16	25.2	27.08
Attainment		2.54	2.48	2.62	2.56	2.52	2.46

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Course Name : IOT and Its Applications

Course Code : 2025513

Year / Sem : 1/2

Academic Year : 2021-2022

Regulation : M.TECH. (MLRS-R20)

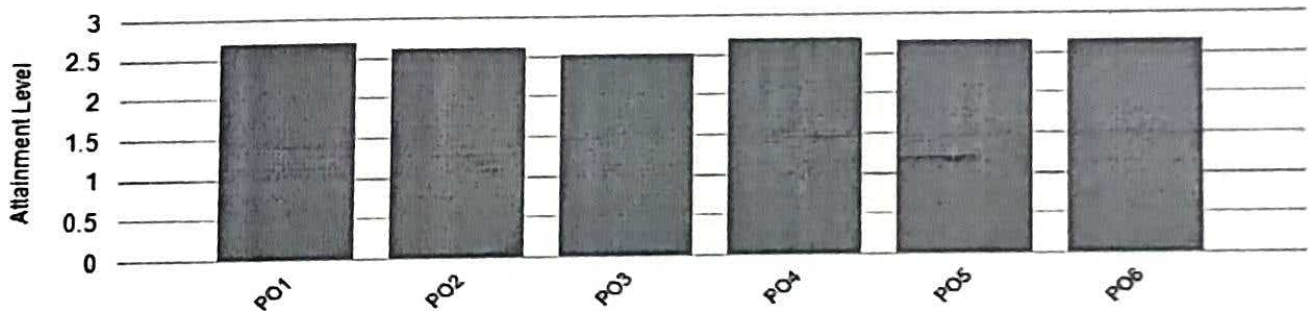
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2		1	3			1
CO-2	2.76	3	2	1			2
CO-3	2.52	3	1	2	2	3	
CO-4	2.76	2		2	3	1	2
CO-5	2.76	3	2	3	2	2	2
Sum		11	6	11	7	6	7

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2		2	6			2
CO-2	2.76	8.28	5.52	2.76			5.52
CO-3	2.52	7.56	2.52	5.04	5.04	7.56	
CO-4	2.76	5.52		5.52	8.28	2.76	5.52
CO-5	2.76	8.28	5.52	8.28	5.52	5.52	5.52
Sum		29.64	15.56	27.6	18.84	15.84	18.56
Attainment		2.69	2.59	2.51	2.69	2.64	2.65

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/2

Course Name : Hardware Software Co-Design

Academic Year : 2021-2022

Course Code : 2025516

Regulation : M.TECH. (MLRS-R20)

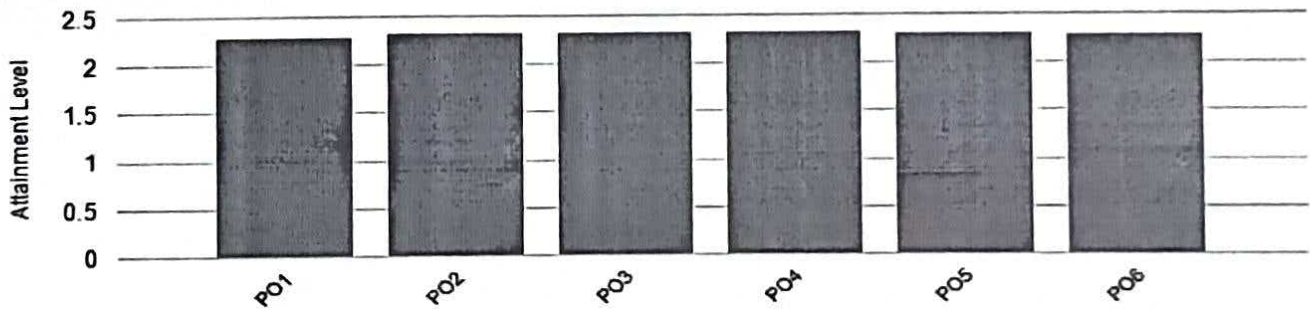
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.2	3	1	2	3	3	
CO-2	1.76	3	1	2	2	3	2
CO-3	2.32	3	1	2	2	3	3
CO-4	2.76	2	1	2	2	3	
CO-5	2.56	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	2.2	6.6	2.2	4.4	6.6	6.6	
CO-2	1.76	5.28	1.76	3.52	3.52	5.28	3.52
CO-3	2.32	6.96	2.32	4.64	4.64	6.96	6.96
CO-4	2.76	5.52	2.76	5.52	5.52	8.28	
CO-5	2.56	5.12	2.56	5.12	5.12	5.12	7.68
Sum		29.48	11.6	23.2	25.4	32.24	18.16
Attainment		2.27	2.32	2.32	2.31	2.3	2.27

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 1/2

Course Name : RTL Simulation and Synthesis with PLDs Lab

Academic Year : 2021-2022

Course Code : 2025523

Regulation : M.TECH. (MLRS-R20)

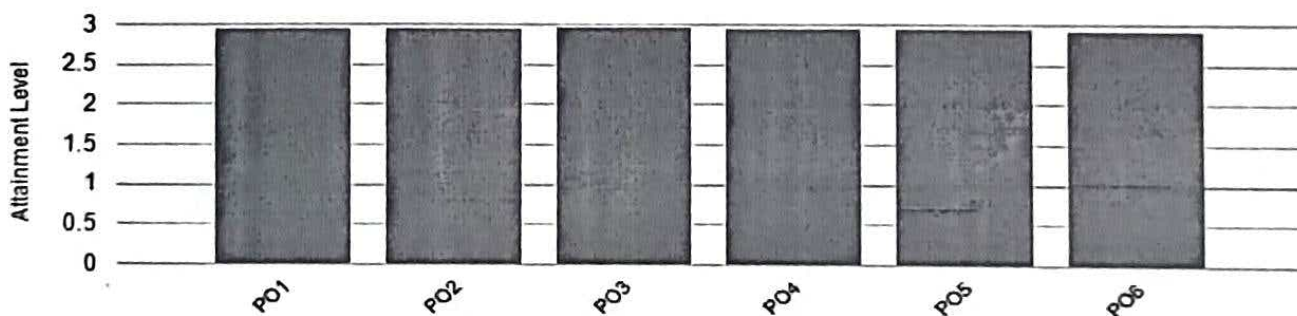
STRENGTH CORRELATION

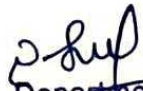
CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.8	2	1		2	1	2
CO-2	3	2	1	3	1	2	2
CO-3	3	3	1	2	3	2	2
CO-4	3	2	2	2	3	3	2
CO-5	2.8	3	1	2	2	2	3
Sum		12	6	9	11	10	11

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.8	5.6	2.8		5.6	2.8	5.6
CO-2	3	6	3	9	3	6	6
CO-3	3	9	3	6	9	6	6
CO-4	3	6	6	6	9	9	6
CO-5	2.8	8.4	2.8	5.6	5.6	5.6	8.4
Sum		35	17.6	26.6	32.2	29.4	32
Attainment		2.92	2.93	2.96	2.93	2.94	2.91

PO ATTAINMENT (DIRECT)




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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Course Name : Advanced Digital Signal Processing Lab

Course Code : 2025524

Year / Sem : 1/2

Academic Year : 2021-2022

Regulation : M.TECH. (MLRS-R20)

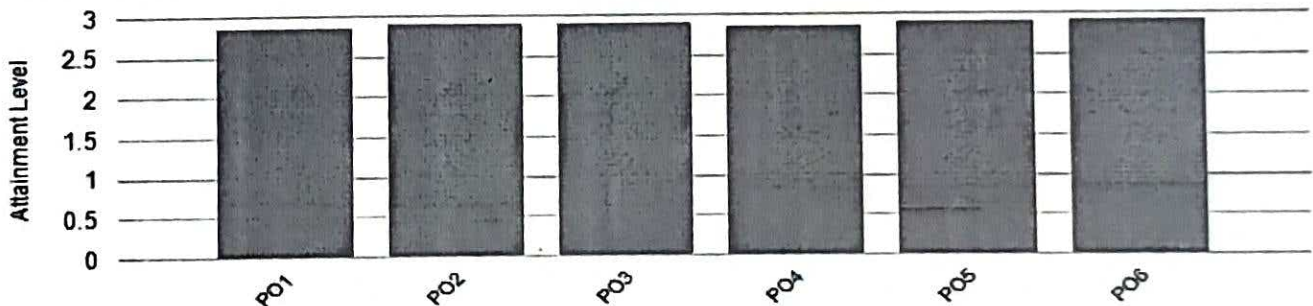
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3		1	3			2
CO-2	2.8	3	2	2			1
CO-3	2.8	2	1	3	3	2	2
CO-4	3	3	2	3	2	3	3
CO-5	2.8	3	2	2	3	2	2
Sum		14	8	13	8	7	10

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3		3	9			6
CO-2	2.8	8.4	5.6	5.6			2.8
CO-3	2.8	5.6	2.8	8.4	8.4	5.6	5.6
CO-4	3	9	6	9	6	9	9
CO-5	2.8	8.4	5.6	5.6	8.4	5.6	5.6
Sum		31.4	23	37.6	22.8	20.2	29
Attainment		2.85	2.88	2.89	2.85	2.89	2.9

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Course Name : Mini Project With Seminar

Course Code : 2025525

Year / Sem : 1/2

Academic Year : 2021-2022

Regulation : M.TECH. (MLRS-R20)

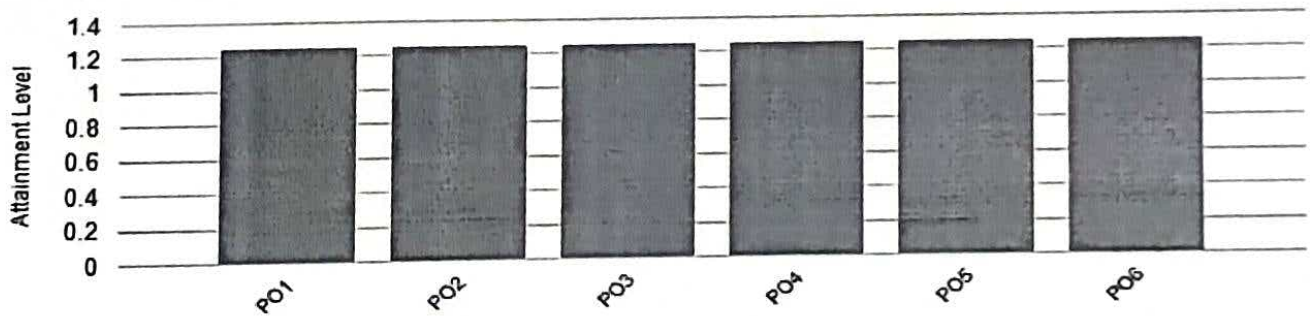
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	1.32	3	3	3	3	3	3
CO-2	1.32	3	3	3	3	3	3
CO-3	1.32	3	3	3	3	3	3
CO-4	1.12	3	3	3	3	3	3
CO-5	1.12	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	1.32	3.96	3.96	3.96	3.96	3.96	3.96
CO-2	1.32	3.96	3.96	3.96	3.96	3.96	3.96
CO-3	1.32	3.96	3.96	3.96	3.96	3.96	3.96
CO-4	1.12	3.36	3.36	3.36	3.36	3.36	3.36
CO-5	1.12	3.36	3.36	3.36	3.36	3.36	3.36
Sum		18.6	18.6	18.6	18.6	18.6	18.6
Attainment		1.24	1.24	1.24	1.24	1.24	1.24

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.
 Course Name : Pedagogy Studies
 Course Code : 2021234

Year / Sem : 1/2
 Academic Year : 2021-2022
 Regulation : M.TECH. (MLRS-R20)

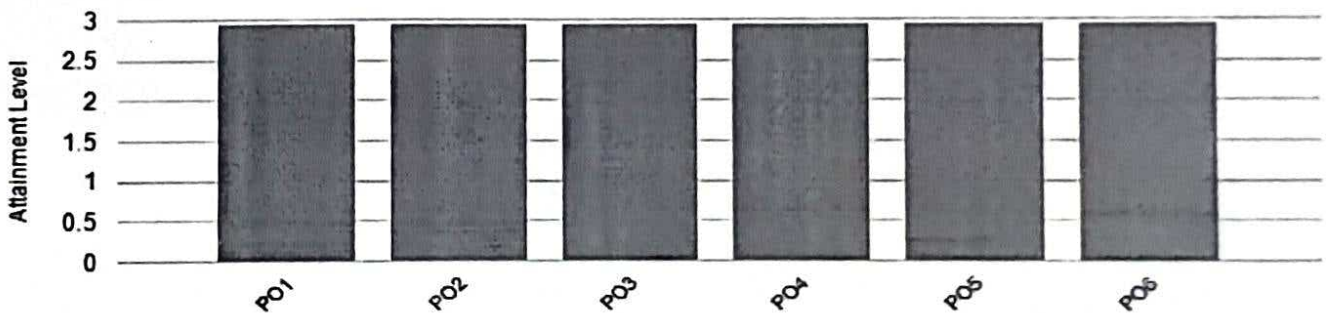
STRENGTH CORRELATION


CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.8	3		3	1		
CO-2	3	3		3	1		
CO-3	3	2	3	3			
CO-4	2.8	3		3	1		
CO-5	3	3	3	3		2	
Sum		24	28	26	13	15	17

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.8	8.4		8.4	2.8		
CO-2	3	9		9	3		
CO-3	3	6	9	9			
CO-4	2.8	8.4		8.4	2.8		
CO-5	3	9	9	9		6	
Sum		70.2	82.4	76	38	44	49.6
Attainment		2.93	2.94	2.92	2.92	2.93	2.92

PO ATTAINMENT (DIRECT)




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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Course Name : Wireless Sensor Networks

Course Code : 2035521

Year / Sem : 2/3

Academic Year : 2022-2023

Regulation : M.TECH. (MLRS-R20)

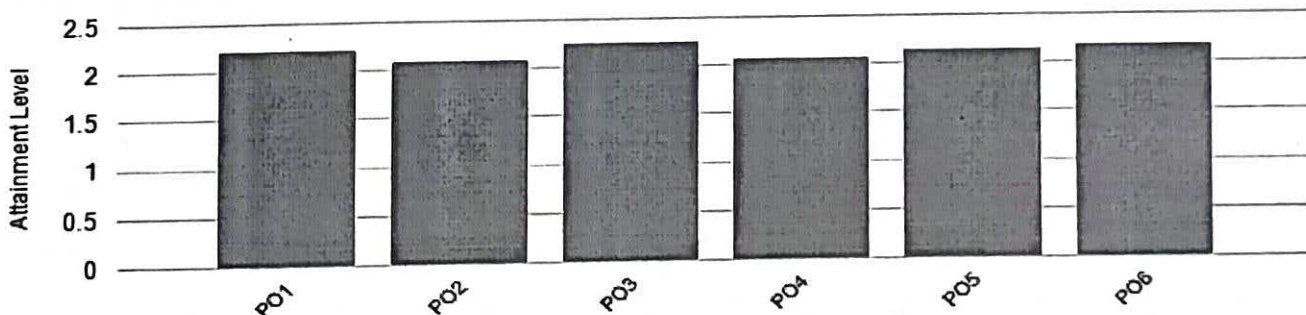
STRENGTH CORRELATION


CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.2	1	1	3	2		1
CO-2	2		2			2	3
CO-3	2.2	2		3		2	2
CO-4	2	3		2		1	2
CO-5	1.08	3		2	2	3	2
Sum		18	6	20	8	16	20

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.2	2.2	2.2	6.6	4.4		2.2
CO-2	2		4			4	6
CO-3	2.2	4.4		6.6		4.4	4.4
CO-4	2	6		4		2	4
CO-5	1.08	3.24		2.16	2.16	3.24	2.16
Sum		39.52	12.4	44.88	16.48	34	43.12
Attainment		2.2	2.07	2.24	2.06	2.13	2.16

PO ATTAINMENT (DIRECT)




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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 2/3

Course Name : Energy From Waste

Academic Year : 2022-2023

Course Code : 2034032

Regulation : M.TECH. (MLRS-R20)

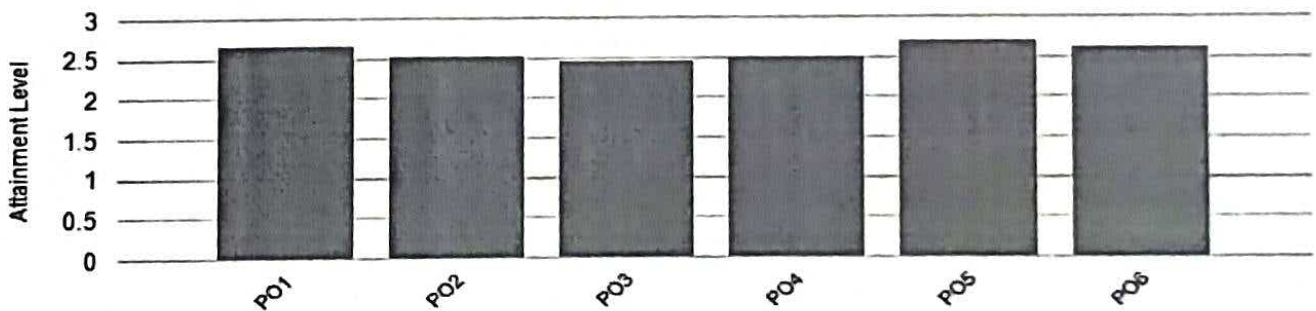
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.2		2	1	2		2
CO-2	2.56	3	2	1		3	
CO-3	2.76				2	3	2
CO-4	2.56	2		1	1		2
CO-5	2.76	3	2			2	3
Sum		8	6	3	5	8	9

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	2.2		4.4	2.2	4.4		4.4
CO-2	2.56	7.68	5.12	2.56		7.68	
CO-3	2.76				5.52	8.28	5.52
CO-4	2.56	5.12		2.56	2.56		5.12
CO-5	2.76	8.28	5.52			5.52	8.28
Sum		21.08	15.04	7.32	12.48	21.48	23.32
Attainment		2.64	2.51	2.44	2.5	2.69	2.59

PO ATTAINMENT (DIRECT)



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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Course Name : Dissertation Work Phase-I

Course Code : 2035526

Year / Sem : 2/3

Academic Year : 2022-2023

Regulation : M.TECH. (MLRS-R20)

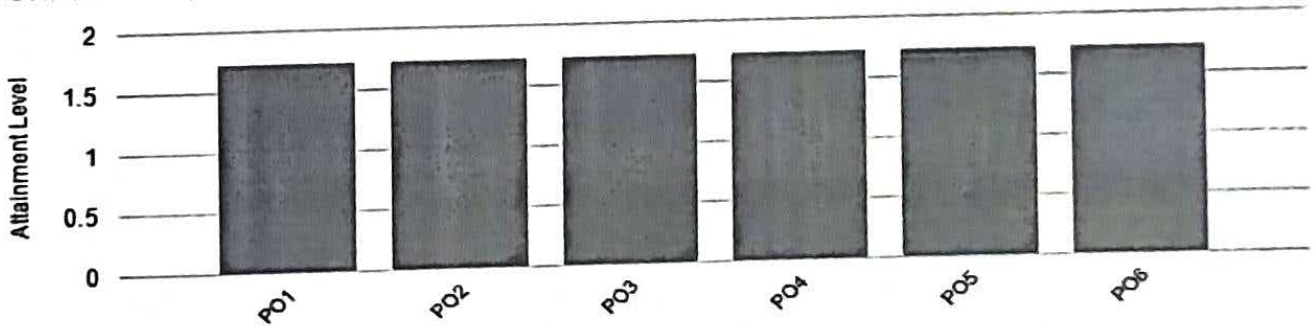
STRENGTH CORRELATION


CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	0.6	3	3	3	3	3	3
CO-2	0.4	3	3	3	3	3	3
CO-3	0.6	3	3	3	3	3	3
CO-4	0.6	3	3	3	3	3	3
CO-5	0.4	3	3	3	3	3	3
Sum		60	60	60	60	60	60

DIRECT ATTAINMENT

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	0.6	1.8	1.8	1.8	1.8	1.8	1.8
CO-2	0.4	1.2	1.2	1.2	1.2	1.2	1.2
CO-3	0.6	1.8	1.8	1.8	1.8	1.8	1.8
CO-4	0.6	1.8	1.8	1.8	1.8	1.8	1.8
CO-5	0.4	1.2	1.2	1.2	1.2	1.2	1.2
Sum		103.2	103.2	103.2	103.2	103.2	103.2
Attainment		1.72	1.72	1.72	1.72	1.72	1.72

PO ATTAINMENT (DIRECT)




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PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 2/4

Course Name : Dissertation Work Phase-II

Academic Year : 2022-2023

Course Code : 2045527

Regulation : M.TECH. (MLRS-R20)

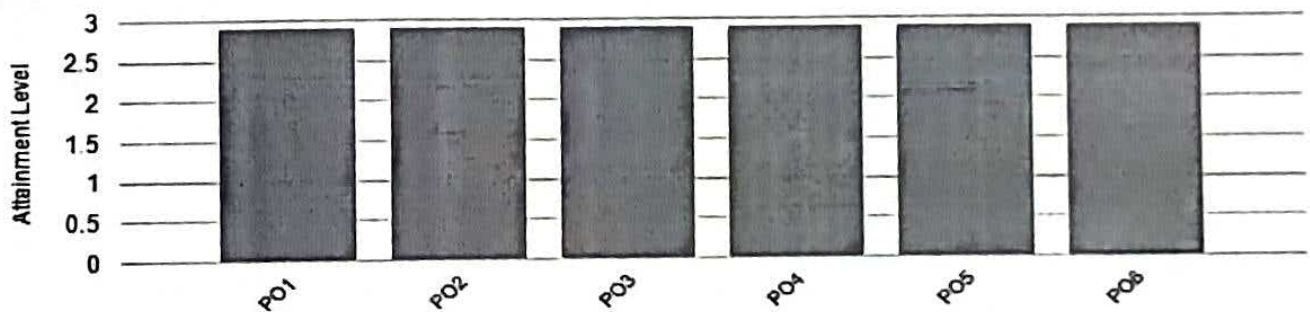
STRENGTH CORRELATION

CO Number	Attainment	PO1	PO2	PO3	PO4	PO5	PO6
CO-1	3	3	3	3	3	3	3
CO-2	2.8	3	3	3	3	3	3
CO-3	3	3	3	3	3	3	3
CO-4	2.8	3	3	3	3	3	3
CO-5	2.8	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	2.8	8.4	8.4	8.4	8.4	8.4	8.4
CO-3	3	9	9	9	9	9	9
CO-4	2.8	8.4	8.4	8.4	8.4	8.4	8.4
CO-5	2.8	8.4	8.4	8.4	8.4	8.4	8.4
Sum		43.2	43.2	43.2	43.2	43.2	43.2
Attainment		2.88	2.88	2.88	2.88	2.88	2.88

PO ATTAINMENT (DIRECT)



[Signature]
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Medchal(D), Hyderabad



PO ATTAINMENT (DIRECT)

Program : M.Tech.

Year / Sem : 2/4

Course Name : Dissertation Viva-Voce

Academic Year : 2022-2023

Course Code : 2045528

Regulation : M.TECH. (MLRS-P25)

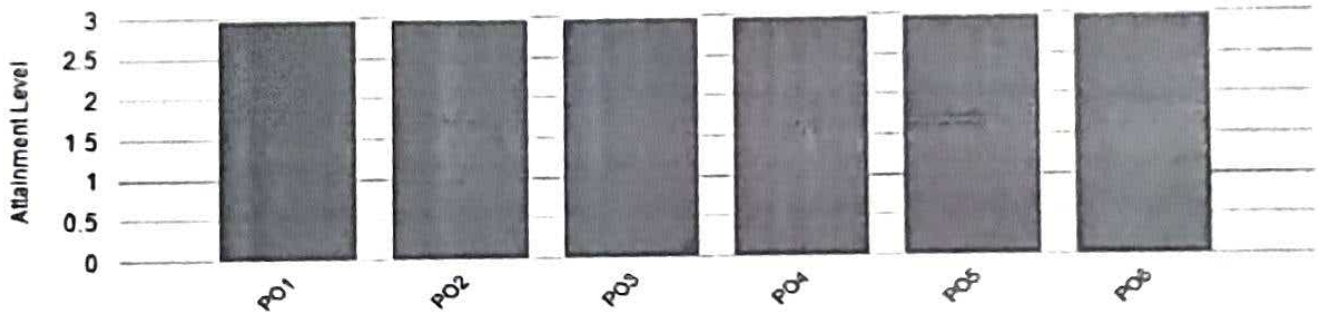
STRENGTH CORRELATION

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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