



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

DEPARTMENT OF CIVIL ENGINEERING

M Tech Structural Engineering

PO Attainment – Action Taken

(2023-2025 Batch)

PO1: Independently carry out research /investigation and development work to solve practical problems	
PO Average:1.91 PO Target: 80% Of PO Average =1.53 PO Attainment=2.63	PO1 Target is achieved
Action Taken 1. Encouraged to pursue the project in the industries and research centers. 2. The outcomes of student projects should be submitted in the indexed conference/Journals. 3. Research Ethics is practicing through plagiarism tools. 4.The digital library with access to resources such as DELNET, Knimbus,Nlist, and other e-journals was utilized to support literature review and research enhancement. 5. Centers of Excellences were established in collaboration with industries for experimental and applied research.	
PO2:Write and present a substantial technical report/document	
PO Average:1.73 PO Target: 80% Of PO Average =1.38 PO Attainment=2.64	PO2 Target is achieved
Action Taken 1. Assignments, ALP sessions, and laboratory records emphasized technical writing. 2. Students prepared project reports and dissertations following institute formatting guidelines. 3. Conducted seminars and paper presentations to enhance documentation and presentation skills. 4. Encourage students to prepare project documentation referring to relevant IS Codes.	
PO 3. Demonstrate a degree of mastery over the area in Structural Engineering	
PO Average:2.68 PO Target: 80% Of PO Average =2.14 PO Attainment=2.82	PO3 Target is achieved
Action Taken 1. Expert lectures and webinars by industry professionals were organized on structural design and analysis, emphasizing sustainability principles and practical applications 2. Assignments focusing on advanced applications were implemented to reinforce mastery in Structural Engineering. 3. DSS lectures were made available to help students gain in-depth knowledge in the field of Structural Engineering. 4. GHMC consultancy projects and DST Projects were facilitated to provide practical exposure to real-time structural design, analysis, and project management practices. 5. The digital library was utilized to access reference books, journals, and resources on emerging technologies to enhance mastery in Structural Engineering.	

PO 4. Impart core and interdisciplinary knowledge for analyzing and solving complex problems in structural engineering and related domains.	
PO Average:2.68 PO Target: 80% Of PO Average =2.14 PO Attainment=2.82	PO4 Target is achieved
Action Taken 1. Courses such as Disaster Management and Fundamentals of Nanotechnology were introduced to strengthen interdisciplinary learning. 2. Multi-domain simulation tools such as MATLAB, ETABS, AR/VR, and AI/ML applications were utilized for complex problem-solving and structural analysis. 3. Guest lectures and expert talks were conducted to provide insights into interdisciplinary applications in structural engineering. 4. Internships, mini projects and Dissertation work was encouraged to integrate theoretical knowledge with practical experience.	
PO 5. Conceptualize and design safe, efficient, and sustainable civil engineering structures in social, economic, and environmental factors.	
PO Average:1.99 PO Target: 80% Of PO Average =1.59 PO Attainment=2.66	PO5 Target is achieved
Action Taken 1. Courses such as Green Building, Safety and Construction Practice Regulations, and Structural Health Monitoring were introduced to promote safe, efficient, and sustainable design practices in structural engineering. 2. Industry and field visits were organized to provide practical exposure to eco-friendly, resilient, and sustainable construction techniques.	
PO 6. Engage in lifelong learning through continuous education, research, and professional development.	
PO Average:1.93 PO Target: 80% Of PO Average =1.55 PO Attainment=2.62	PO6 Target is achieved
Action Taken 1. Dissertation work was carried out on emerging technologies to promote research orientation and continuous professional development. 2. A continuous learning culture was promoted through DSS video lectures and online learning platforms. 3. Star Alumni interactions were organized to provide insights into career advancement, higher education opportunities, and lifelong professional growth.	


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DEPARTMENT OF CIVIL ENGINEERING
M Tech Structural Engineering
BATCH: 2023-2025

PO ATTAINMENT

S.No	Year/SEM	Subject	Code	PO1	PO2	PO3	PO4	PO5	PO6
1	I Sem	Advanced Structural Mechanics	2212011	2.22	2.28	2.19	2.19	2.22	2.17
2	I Sem	Theory Of Elasticity And Plasticity	2212012	2.28	2.76	2.23	2.23	2.4	2.23
3	I Sem	Structural Stability	2212043	2.93	2.92	2.92	2.92	2.93	2.93
4	I Sem	Advanced Reinforced Concrete Design	2212044	2.71	2.73	2.73	2.73	2.65	2.67
5	I Sem	Computer Aided Design Laboratory	2212071	2.96	2.96	2.96	2.96	2.98	2.96
6	I Sem	Structural Engineering Laboratory	2212072	2.97	2.98	2.96	2.96	2.97	2.96
7	I Sem	Research Methodology & IPR	2212021	2.06	2.06	2.06	2.06		2.06
8	I Sem	Disaster Management	2210002	2.94		2.93	2.92	2.92	2.92
9	II Sem	Finite Element Analysis	2222013	2.87	2.82	2.85	2.89	2.88	2.82
10	II Sem	Structural Dynamics	2222014	3.00	3.00	3.00	3.00	3.00	3.00
11	II Sem	Advanced Structural Steel Design	2222047	2.31	2.32	2.32	2.32	2.3	2.32
12	II Sem	Advanced Prestressed Concrete Design	2222050	2.88	2.9	2.9	2.9	2.89	2.9
13	II Sem	Numerical Analysis Laboratory	2222073	2.92	2.92	2.92	2.92	2.92	2.92
14	II Sem	Advanced Structural Analysis And Design Laboratory	2222074	2.8	2.8	2.8	2.8	2.8	2.8
15	II Sem	Mini Project With Seminar	2222075	2.96	2.96	2.96	2.96	2.96	2.96
16	II Sem	Pedagogy Studies	2220006	2.84	2.84	2.84	2.83	2.84	2.85
17	III Sem	Rehabilitation And Retrofitting Of Structures	2232055	3.00	3.00	3.00	3.00	3.00	3.00
18	III Sem	Fundamentals of Nano Technology	2235503	3.00	3.00	3.00	3.00	3.00	3.00
19	III Sem	Dissertation Work Review – I	2232076	3.00	3.00	3.00	3.00	3.00	3.00
20	IV Sem	Dissertation Work Review – II	2242077	2.88	2.88	2.88	2.88	2.88	2.88
21	IV Sem	Dissertation Viva Voce	2242078	2.96	2.96	2.96	2.96	2.96	2.96
Average				2.79	2.80	2.78	2.78	2.83	2.78

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DEPARTMENT OF CIVIL ENGINEERING

M Tech Structural Engineering

PO Attainment –Over All

2023-2025 Batch

Assessment Components (Direct + Indirect)	PO1	PO2	PO3	PO4	PO5	PO6
PO Direct Attainment	2.79	2.80	2.78	2.78	2.83	2.78
Program Exit Survey	2	2	3	3	2	2
Alumni Survey	2	2	3	3	2	2
Employer Survey	2	2	3	3	2	2
Final PO Attainment = 80 % Direct + 20 % Indirect	2.63	2.64	2.82	2.82	2.66	2.62

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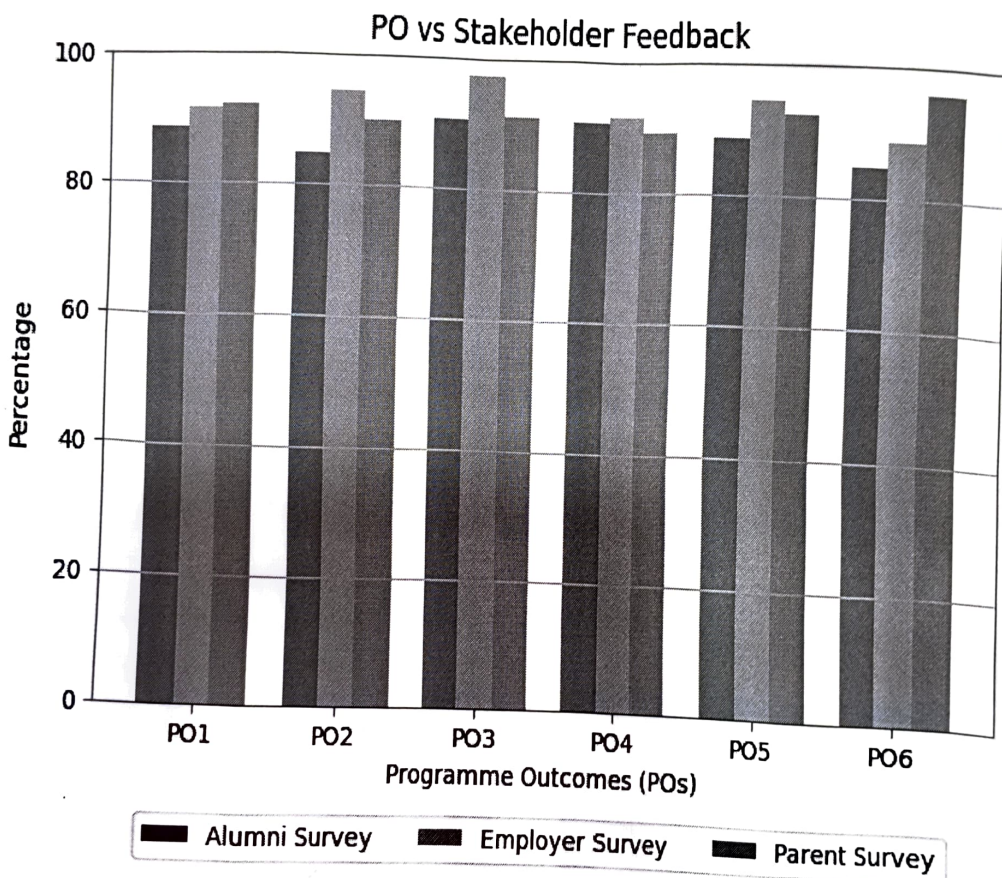
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STAKE HOLDERS FEEDBACK

2025-26




K. Srinivas
Head of The Department
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DEPARTMENT OF CIVIL ENGINEERING

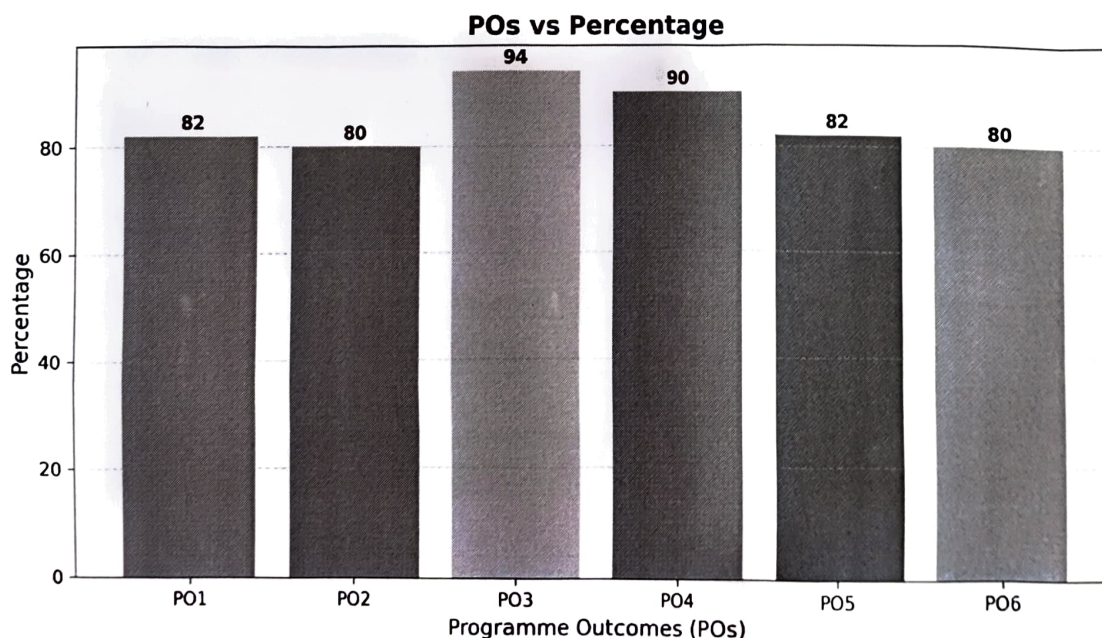
Program: M Tech Structural Engineering

PROGRAM EXIT SURVEY-2025

(Batch:2023-25)

Feedback on POs

Q.No	PO Statement	Percentage
PO1	Independently carry out research /investigation and development work to solve practical problems	82
PO2	Write and present a substantial technical report/document	80
PO3	Demonstrate a degree of mastery over the area in Structural Engineering	94
PO4	Impart core and interdisciplinary knowledge for analyzing and solving complex problems in structural engineering and related domains.	90
PO5	Conceptualize and design safe, efficient, and sustainable civil engineering structures in social, economic, and environmental factors.	82
PO6	Engage in lifelong learning through continuous education, research, and professional development.	80



The analysis of Programme Outcomes (POs) attainment indicates an overall strong performance, with percentages ranging from 80% to 94%, reflecting effective implementation of the curriculum and achievement of intended learning outcomes. PO3 (94%) demonstrates the highest attainment, indicating that students have developed a high level of mastery in Structural Engineering. Similarly, PO4 (90%) shows strong capability in applying core and interdisciplinary knowledge to solve complex engineering problems. Moderate attainment

levels in PO1 and PO5 (82%) suggest satisfactory development in research ability and sustainable engineering practices, with scope for further strengthening through enhanced project-based **learning and** real-world exposure. However, relatively lower attainment in PO2 and PO6 (80%) highlights the need to improve technical communication skills and promote **lifelong** learning through workshops, certifications, and research engagement. Overall, the results indicate a well-balanced outcome achievement, with targeted improvements required to **elevate the** lower-performing POs to match the higher attainment levels.

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DEPARTMENT OF CIVIL ENGINEERING

Program: M Tech Structural Engineering

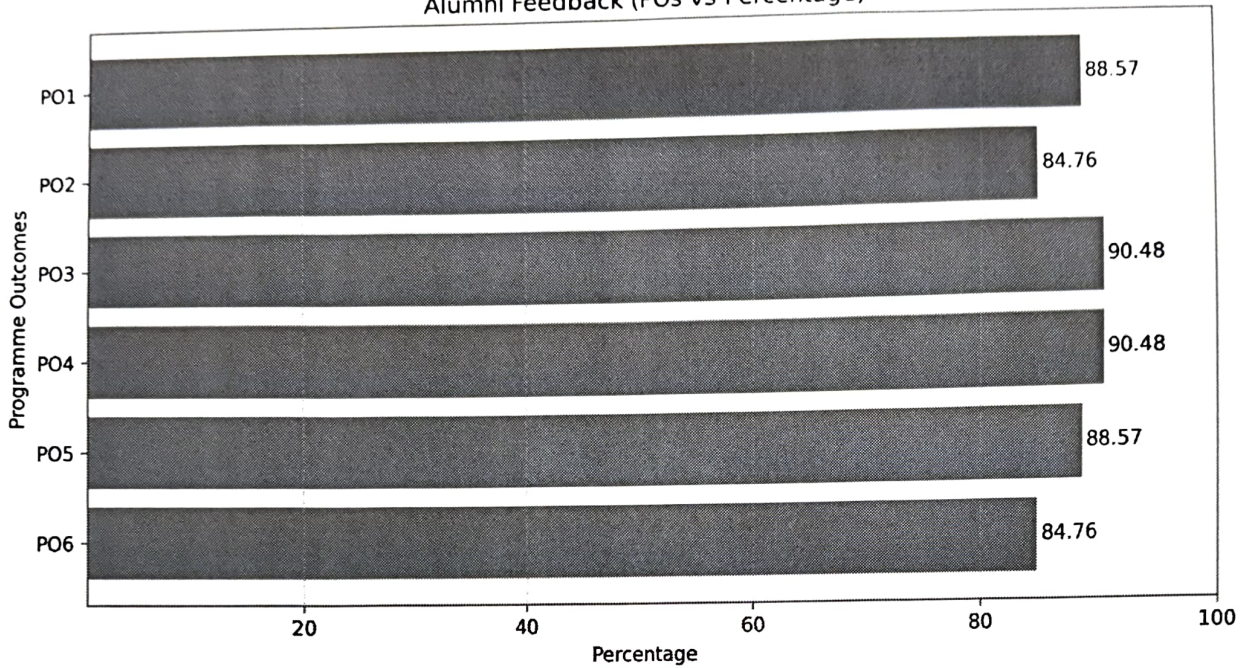
ALUMNI FEEDBACK ON PROGRAM OUTCOMES

A.Y 2025-2026

S.No	Alumni	POs					
		1	2	3	4	5	6
1	GOLUSULA VENKATESH 217Y1D2014	5	4	5	4	5	4
2	SHAIKH OBED 207Y1A0121	4	4	4	4	4	4
3	PODETI KAVITHA 217Y1D2012	4	4	4	4	4	4
4	GOLUSULA VENKATESH 217Y1D2014	5	5	5	5	5	5
5	AMGOTH HARICHANDAR LAL 207Y1D5501	4	4	4	4	4	4
6	KUMBHAM MEGHANA 207Y1D5504	5	5	5	5	5	5
7	ANDHOLE SUPRIYA 207Y1D2001	4	4	4	4	4	4
8	N BHARATH 227Y1D2006	4	4	5	5	4	4
9	MANIKANTA 227Y1D2008	4	4	5	5	4	4
10	KURRAE RAJASHEKHAR REDDY 197Y1D2006	4	5	4	5	4	5
11	VENUGOPAL Y 157Y1A2015	5	4	5	4	5	4
12	PANIL SAGAR 157Y1A2006	5	4	5	5	5	4
13	KOMMU BHAVANI 217Y1D2004	4	4	4	4	4	4
14	AEGULA SHRAVAN KUMAR 197Y1D2010	5	4	5	5	5	4
15	G SHBHAKAR YADAV 147Y1A2011	5	4	5	5	5	4
16	NARENDRANAADH 147Y1A2006	4	4	4	5	4	4
17	CHETTE RAJU 237Y1D2007	4	5	4	5	4	5
18	BASHETTY SANDEEP 237Y1D2010	5	5	5	5	5	5
19	PALADA SANTHOSHISRI 237Y1D2011	4	4	4	4	4	4
20	BYRAJU ARAVIND SAI 237Y1D2015	4	4	4	4	4	4
21	KASTHURI VENKATARAMANA 227Y1D2004	5	4	5	4	5	4
Total Score		93	89	95	95	93	89
Maximum Score		105	105	105	105	105	105
Percentage		88.57	84.76	90.48	90.48	88.57	84.76

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Alumni Feedback (POs vs Percentage)



The analysis of alumni feedback on Programme Outcomes (POs) indicates a strong level of attainment, with percentages ranging from 84.76% to 90.48%, reflecting good alignment between graduate competencies and industry expectations. The highest attainment is observed in PO3 and PO4 (90.48%), indicating that graduates demonstrate a strong degree of mastery in structural engineering and possess the ability to apply core and interdisciplinary knowledge to solve complex engineering problems. PO1 and PO5 (88.57%) also show commendable performance, highlighting graduates' capabilities in research, problem-solving, and designing safe and sustainable engineering solutions. However, relatively lower attainment in PO2 and PO6 (84.76%) suggests the need to further strengthen technical communication skills and promote lifelong learning through continuous professional development initiatives. Overall, the results reflect a well-balanced achievement of programme outcomes, with scope for improvement through enhanced industry interaction, communication skill development, and opportunities for continuous learning to meet evolving industry demands.

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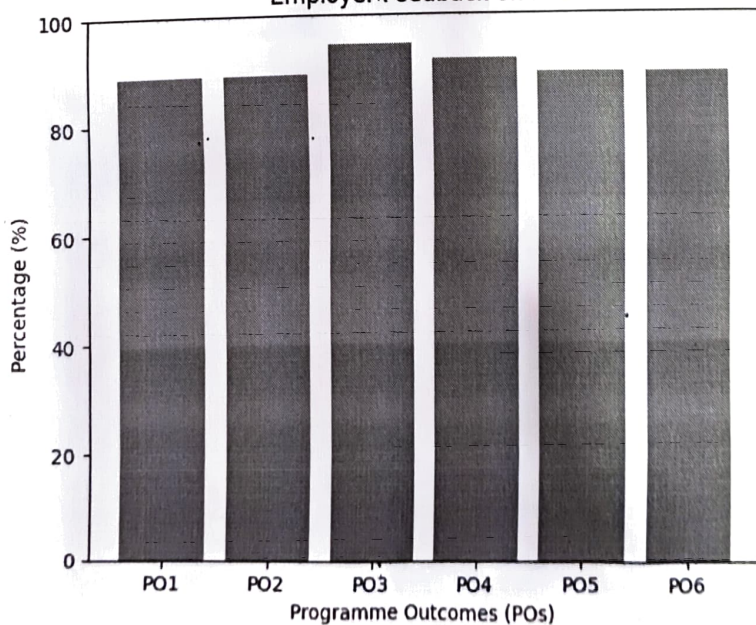
DEPARTMENT OF CIVIL ENGINEERING Program: MTech Structural Engineering

EMPLOYER FEEDBACK ON POs

A.Y 2025-2026

S.No	Name of the Employer	POs					
		1	2	3	4	5	6
1	Janapriya	5	4	5	5	4	5
2	Advantage onetax Pvt.Ltd.	4	4	5	5	5	4
3	ASBL Hyderabad	4	4	4	4	4	4
4	Kirby building system Pvt Ltd.	5	4	5	4	4	4
5	KLSR Infratech Ltd.	4	5	4	5	4	4
6	Jayabheri	5	5	5	4	5	5
7	SM Engineers and Contractors	4	5	5	5	5	5
Total Score		31	31	33	32	31	31
Maximum Score		35	35	35	35	35	35
Percentage		88.57	88.57	94.29	91.43	88.57	88.57

Employer Feedback on POs



Observations on Employer Feedback on Programme Outcomes (POs)

The analysis of employer feedback on Programme Outcomes (POs) indicates that all outcomes have achieved high satisfaction levels above 88%, demonstrating strong alignment with industry expectations. The highest attainment is observed in PO3 (94.29%), indicating excellent performance in applying engineering knowledge and modern practices. PO4 (91.43%) also shows strong attainment, reflecting good problem-solving and analytical capabilities of graduates.

The remaining outcomes PO1, PO2, PO5, and PO6 (88.57%) exhibit consistent and satisfactory performance, indicating that graduates possess strong foundational knowledge, professional skills, and adaptability required by the industry.

Overall, the results confirm that the Programme Outcomes are effectively achieved, producing competent and industry-ready graduates, with minor scope for enhancement in selected areas to further improve performance.


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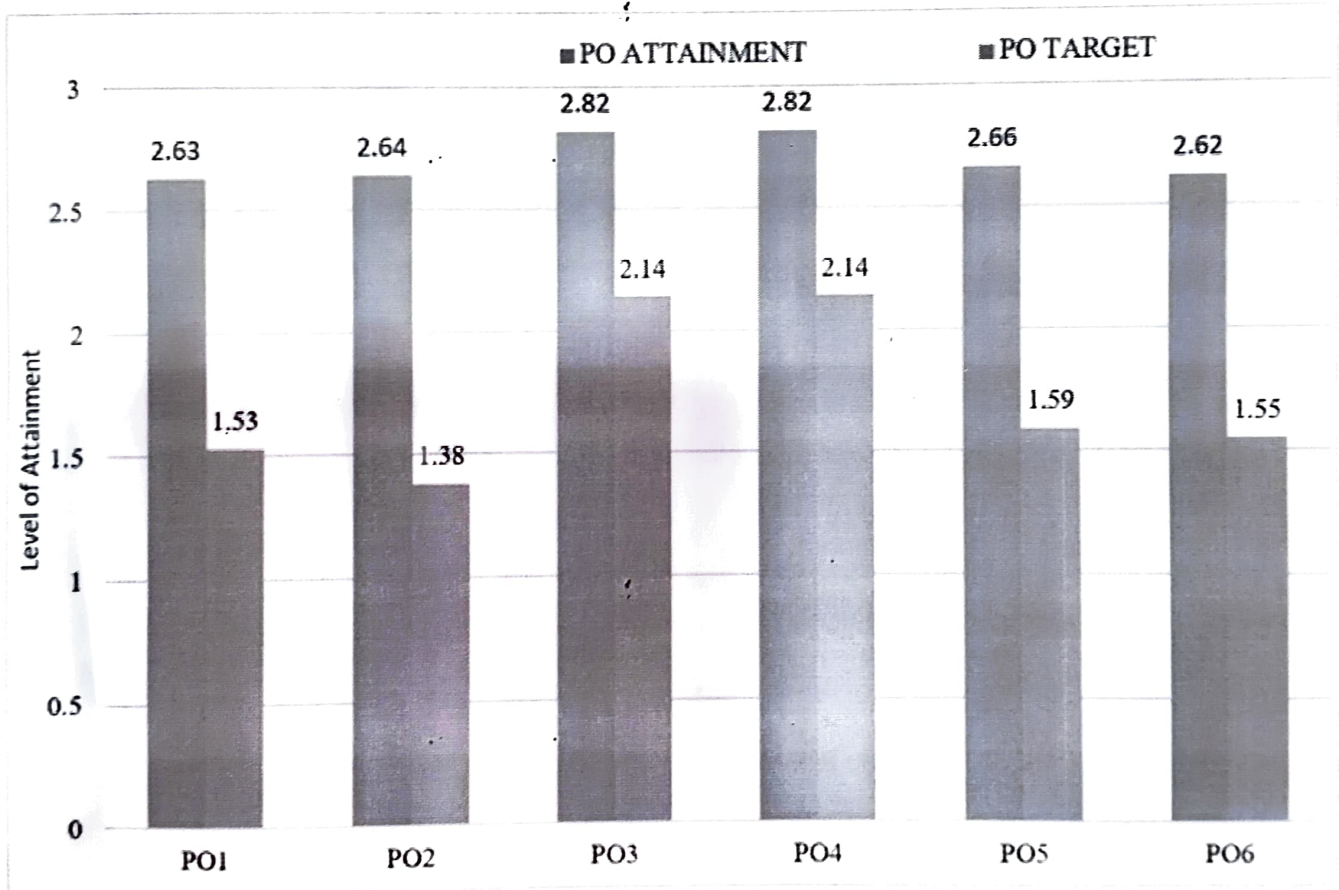
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