



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

(2021-2023 Batch)

PO1: Independently carry out research /investigation and development work to solve practical problems	
PO1 Average:1.90 PO1 Target: 80% Of PO1 Average =1.52 PO1 Attainment=2.26	PO1 Target is achieved
Action Taken <ul style="list-style-type: none"> ➤ Promoted publication of project outcomes in indexed conferences/journals ➤ Proposed research methodology course to include in the curriculum ➤ Utilized digital library resources (DELNET, Knimbus, NPTEL, e-journals) for literature review and research enhancement 	
PO2: Write and present a substantial technical report/document	
PO2 Average:1.61 PO2 Target: 80% Of PO1 Average =1.29 PO2 Attainment=2.26	PO2 Target is achieved
Action Taken <ul style="list-style-type: none"> ➤ Strengthened technical writing through assignments and laboratory records ➤ Proposed to include Subject Viva voce/PPT/Poster Presentation/Case study in R22 Curriculum to strengthen technical report/document ➤ Ensured preparation of project reports and dissertations as per institute guidelines ➤ Encouraged the use of relevant standards and codes in documentation 	
PO 3. Demonstrate a degree of mastery over the area in Structural Engineering	
PO3 Average:2.64 PO3 Target: 80% Of PO1 Average =2.11 PO3 Attainment=2.25	PO3 Target is achieved
Action Taken <ul style="list-style-type: none"> ➤ Proposed to introduce more domain mastery courses like Structural Reliability, Pre-Engineered Buildings, Rehabilitation and Retrofitting of Structures to broaden domain knowledge ➤ Implemented advanced application-based assignments ➤ Involved students in real-time consultancy and research projects ➤ Facilitated access to digital resources on emerging structural technologies such as STAAD PRO, ETABS 	
PO 4. Impart core and interdisciplinary knowledge for analyzing and solving complex problems in structural engineering and related domains.	

PO3 Average:2.67
PO3 Target: 80% Of PO1 Average =2.13
PO3 Attainment=2.25

PO4 Target is achieved

Action Taken

- Audit courses such as Disaster Management and Fundamentals of Nanotechnology were introduced to enhance multidisciplinary knowledge.
- Utilized modern tools such as MATLAB, ETABS, and AI/ML applications
- Encouraged internships, mini-projects, and dissertation work for practical exposure

PO 5. Conceptualize and design safe, efficient, and sustainable civil engineering structures considering social, economic, and environmental factors.

PO5 Average:1.82
PO5 Target: 80% Of PO1 Average =1.46
PO5 Attainment=2.26

PO5 Target is achieved

Action Taken

- Introduced courses focusing on sustainability and safety practices
- Organized industry visits for exposure to sustainable construction techniques
- Promoted awareness of environmental, social, and economic aspects in design

PO 6. Engage in lifelong learning through continuous education, research, and professional development.

PO6 Average:1.93
PO6 Target: 80% Of PO1 Average =1.55
PO6 Attainment=2.25

PO6 Target is achieved

Action Taken

- Promoted dissertation work on emerging technologies
- Organized alumni interactions for career guidance and professional growth
- Fostered continuous learning through seminars, workshops, and self-learning initiatives

K. Srinivas
HOD

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M Tech Structural Engineering

BATCH 2021-23

PO ATTAINMENT

Year/Sem	Subject Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6
I-I	2012011	Advanced Structural Analysis	1.79	2.10	1.84	1.84	1.83	1.85
I-I	2012012	Theory of Elasticity	1.88	1.72	1.86	1.86	1.73	1.86
I-I	2012042	Theory of Structural Stability	2.56	2.54	2.54	2.54	2.85	2.56
I-I	2012044	Advanced Reinforced Concrete Design	2.63	2.64	2.64	2.64	2.66	2.67
I-I	2012071	Numerical Analysis Lab	2.84	2.84	2.84	2.84	2.84	2.84
I-I	2012072	Advanced Concrete Technology Lab	2.89	2.88	2.88	2.88	2.91	2.88
I-I	2012021	Advanced Concrete Technology	1.78	1.77	1.77	1.77	1.79	1.83
I-I	2010002	Disaster Management	2.87	3.00	2.88	2.87	2.86	2.90
II-I	2022013	FEM in Structural Engineering	2.51	2.31	2.40	2.40	2.38	2.31
II-I	2022014	Structural Dynamics	2.12	2.06	2.06	2.06	2.08	2.06
I-II	2022047	Advanced Steel Design	1.63	1.62	1.62	1.62	1.62	1.62
I-II	2022051	Design of Prestressed Concrete Structures	1.73	1.72	1.72	1.72	1.72	1.72
I-II	2022073	Advanced Structural Engineering Lab	3.00	3.00	3.00	3.00	3.00	3.00
I-II	2022074	Structural Design Lab	2.88	2.88	2.88	2.88	2.88	2.88
I-II	2022081	Mini Project with Seminar	1.24	1.24	1.24	1.24	1.24	1.24
I-II	2021234	Pedagogy Studies	2.40	2.40	2.40	2.40	2.40	2.40
II-I	2032055	Earthquake Resistant Design of Buildings	1.71	1.73	1.73	1.73	1.76	1.73
II-I	2035503	Fundamentals of Nano Technology	2.39	2.43	2.40	2.37	2.41	2.37
II-I	2032076	Dissertation Work Review – I	2.80	2.80	2.80	2.80	2.80	2.80
II-II	2042077	Dissertation Work Review – II	2.80	2.80	2.80	2.80	2.80	2.80
II-II	2042078	Dissertation Viva Voce	2.24	2.24	2.24	2.24	2.24	2.24
Average			2.32	2.32	2.31	2.31	2.32	2.31

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PO Attainment –Over All

2021-2023 Batch

Assessment Components (Direct + Indirect)	PO1	PO2	PO3	PO4	PO5	PO6
PO Direct Attainment	2.32	2.32	2.31	2.31	2.32	2.31
Program Exit Survey	2	2	2	2	2	2
Alumni Survey	2	2	2	2	2	2
Employer Survey	2	2	2	2	2	2
Final PO Attainment = 80 % Direct + 20 % Indirect	2.26	2.26	2.25	2.25	2.26	2.25

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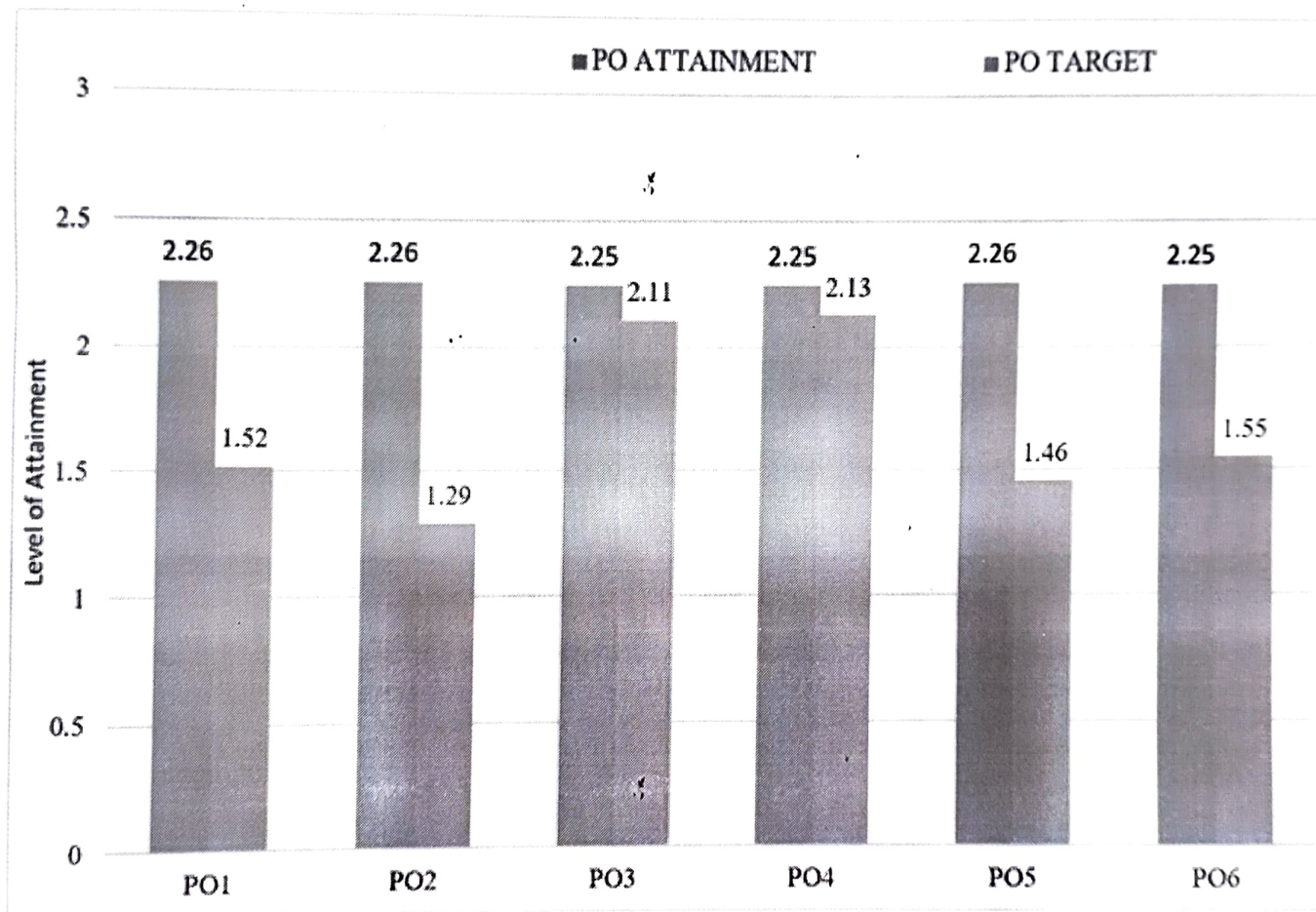
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PO Attainment –Over All

2021-2023 Batch



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DEPARTMENT OF CIVIL ENGINEERING

Program: M Tech Structural Engineering

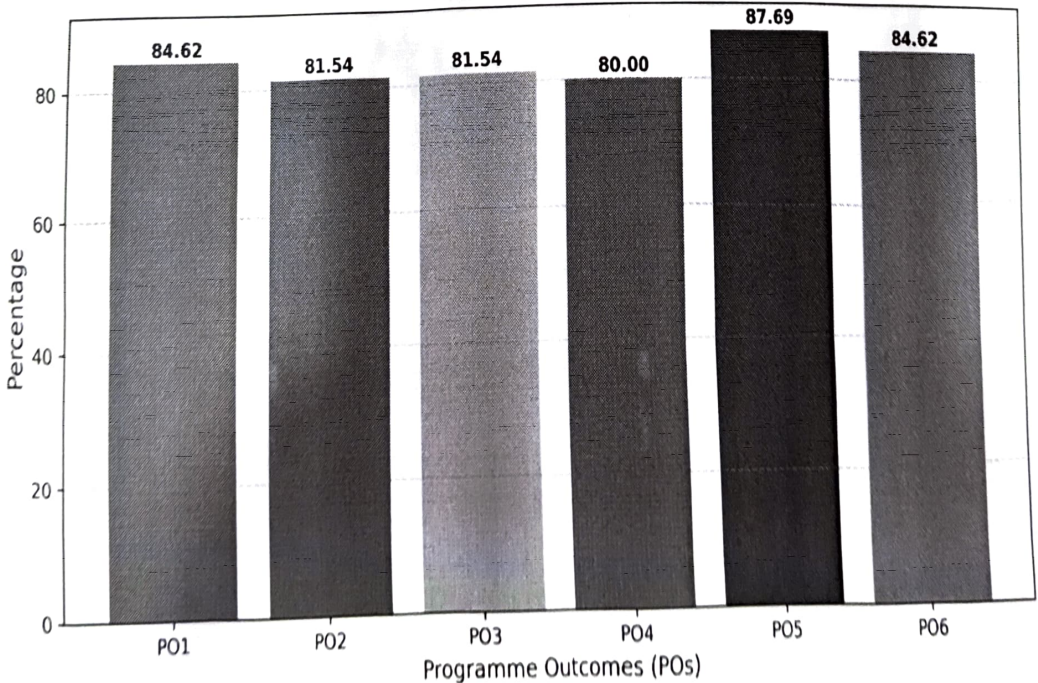
PROGRAM EXIT SURVEY-2023

(Batch:2021-23)

Feedback on POs

Q.No	PO Statement	Percentage
PO1	Independently carry out research /investigation and development work to solve practical problems	84.62
PO2	Write and present a substantial technical report/document	81.54
PO3	Demonstrate a degree of mastery over the area in Structural Engineering	81.54
PO4	Impart core and interdisciplinary knowledge for analyzing and solving complex problems in structural engineering and related domains.	80.00
PO5	Conceptualize and design safe, efficient, and sustainable civil engineering structures in social, economic, and environmental factors.	87.69
PO6	Engage in lifelong learning through continuous education, research, and professional development.	84.62

POs vs Percentage



The analysis of Programme Outcomes (POs) attainment indicates a strong and consistent performance, with percentages ranging from 80.00% to 87.69%, reflecting effective achievement of the intended learning outcomes. PO5 (87.69%) shows the highest attainment, indicating that students are highly competent in designing safe, sustainable, and efficient civil engineering systems considering social, economic, and environmental factors. PO1 and PO6 (84.62%) demonstrate good capability in research, problem-solving, and lifelong learning. Moderate attainment levels in PO2 and PO3 (81.54%) suggest satisfactory development in technical communication and domain expertise. However, PO4 (80.00%), being the lowest, indicates the need to further strengthen interdisciplinary knowledge and complex problem-solving abilities. Overall, the results reflect balanced attainment across all POs, with scope for improvement through enhanced interdisciplinary projects, technical communication training, and industry-oriented learning to achieve higher levels of excellence.


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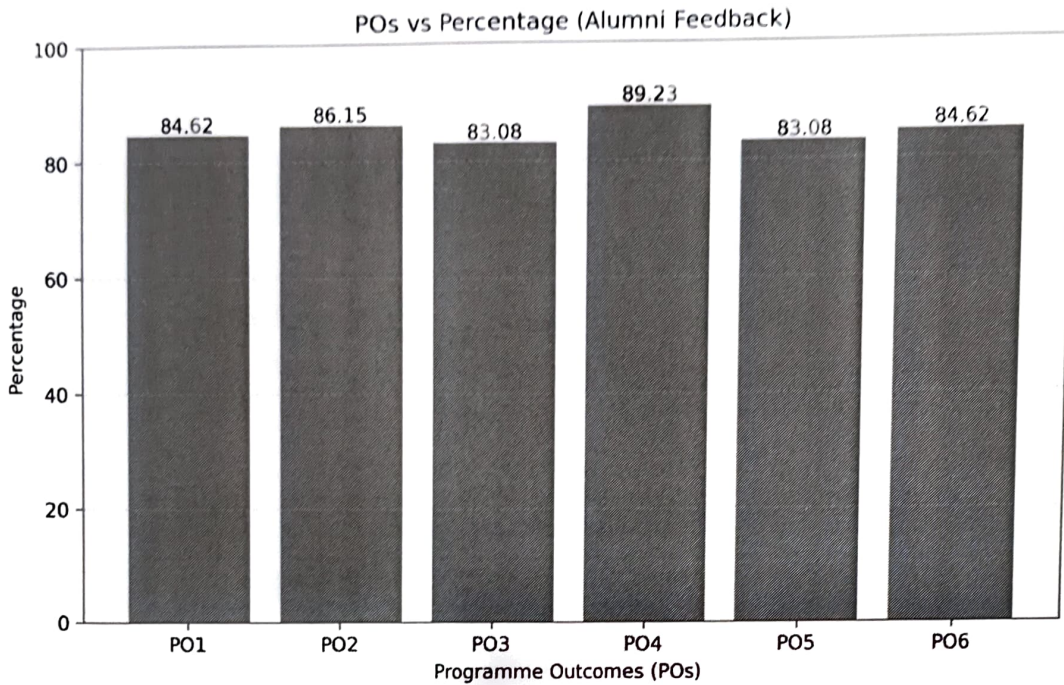
DEPARTMENT OF CIVIL ENGINEERING

Program: M Tech Structural Engineering

ALUMNI FEEDBACK ON PROGRAM OUTCOMES

A.Y 2023-2024

S.No	Alumni	POs					
		1	2	3	4	5	6
1	M MANISHA RANI 207Y1D2008	5	5	5	4	5	4
2	PATLOLLA BHAVANI 207Y1D2016	4	4	5	5	4	4
3	SATISH PAWAR 157Y1A2008	5	5	4	5	4	5
4	VARADA PRINAY 207Y1D2018	4	5	4	5	4	5
5	MUDAVATH NARSIMHA 197Y1D2012	4	4	4	4	4	4
6	PUNNA SANTHOSH BABU 197Y1D2007	4	4	4	4	4	4
7	SRIMURTHI SAI KUMAR 197Y1D2009	4	4	4	4	4	4
8	D.SRIPAVAN 147Y1A2003	5	4	4	5	5	4
9	G RAMYA 157Y1A2011	4	4	4	5	4	4
10	MARUPALLI UDAY VENKATESH 207Y1D2011	4	5	4	5	4	5
11	PUNNA SANTHOSH BABU 197Y1D2007	4	4	4	4	4	4
12	NAMBURI RAJESH VARMA 207Y1D2012	4	4	4	4	4	4
13	PALLATI SUSHMA 207Y1D2014	4	4	4	4	4	4
Total Score		55	56	54	58	54	55
Maximum Score		65	65	65	65	65	65
Percentage		84.62	86.15	83.08	89.23	83.08	84.62



The analysis of alumni feedback on Programme Outcomes (POs) indicates a good and consistent level of attainment, with percentages ranging from 83.08% to 89.23%, reflecting satisfactory achievement of the intended learning outcomes.

The highest attainment is observed in PO4 (89.23%), indicating that graduates are strong in applying core and interdisciplinary knowledge to solve complex engineering problems. PO2 (86.15%) also demonstrates good performance, highlighting adequate development of technical communication and documentation skills.

Moderate attainment levels are observed in PO1 and PO6 (84.62%), indicating satisfactory capabilities in research, problem-solving, and lifelong learning. However, relatively lower attainment in PO3 and PO5 (83.08%) suggests the need to further strengthen domain expertise and the ability to design sustainable engineering solutions.

Overall, the results reflect a balanced and stable performance across all Programme Outcomes, with scope for improvement through enhanced domain-specific training, project-based learning, and increased emphasis on sustainability and innovation to achieve higher levels of excellence.


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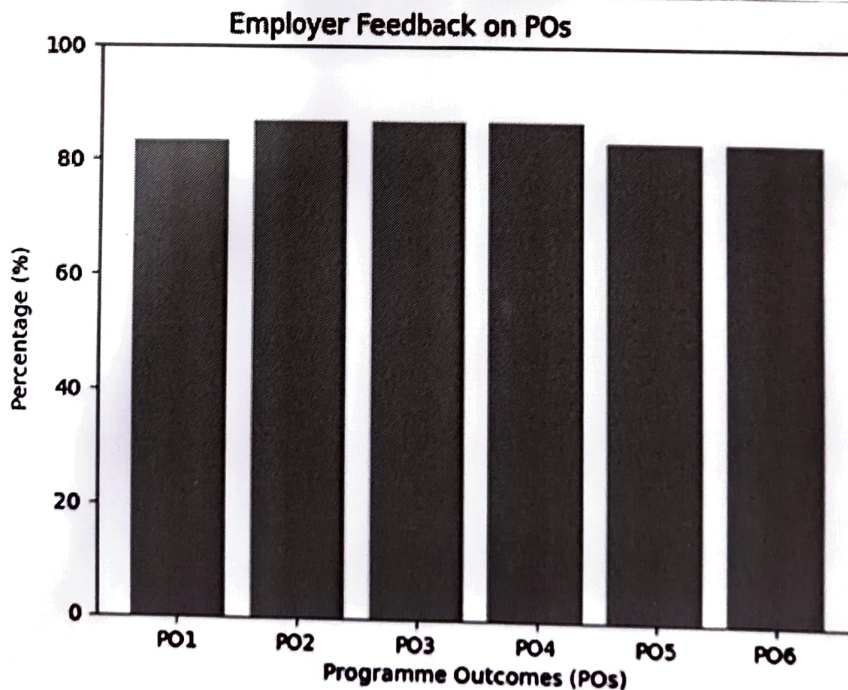
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EMPLOYER FEEDBACK ON POs

A.Y 2023-2024

S.No	Name of the Employer	POs					
		1	2	3	4	5	6
1	Aparna Constructions and estates Pvt.Ltd.	5	5	5	4	5	4
2	Decon Construction Company	4	4	5	5	4	4
3	Aurobindo Reality and Infrastructures Pvt Ltd.	4	4	4	4	4	4
4	Luminous Engineering & Contruction Company	3	3	4	4	4	4
5	My home group	5	5	3	5	3	4
6	NR infrainteriors	4	5	5	4	5	5
Total Score		25	26	26	26	25	25
Maximum Score		30	30	30	30	30	30
Percentage		83.33	86.67	86.67	86.67	83.33	83.33



Observations on Employer Feedback on Programme Outcomes (POs)

The graphical analysis of employer feedback on Programme Outcomes (POs) indicates that all outcomes have achieved satisfaction levels above 80%, demonstrating strong alignment with industry expectations.

Higher attainment is observed in PO2, PO3, and PO4 ($\approx 86.67\%$), reflecting better performance in areas related to technical knowledge, problem-solving, and application of engineering concepts. These outcomes indicate that graduates are well-prepared to handle practical and analytical challenges in the workplace.

Moderate and consistent performance is seen in PO1, PO5, and PO6 ($\approx 83.33\%$), suggesting that fundamental knowledge, professional skills, and adaptability are well-developed but may require slight enhancement for achieving excellence.

Overall, the results confirm that the Programme Outcomes are effectively supporting industry requirements, with minor scope for improvement in selected areas to further strengthen graduate competencies.

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