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

(2022-2024 Batch)

PO1: Independently carry out research /investigation and development work to solve practical problems	
PO1 Average:1.91 PO1 Target: 80% Of PO1 Average =1.53 PO1 Attainment=2.47	PO1 Target is achieved
Action Taken ➢ Promoted publication of project outcomes in indexed journals and conferences ➢ Strengthened research exposure through interaction with industry experts to identify real-time problem statements for major projects ➢ Utilized digital resources (DELNET, Knimbus, NPTEL, e-journals) for literature review ➢ Facilitated industry visits (ICRISAT, ISRO, RMC, Aparna Constructions) to integrate research with real-time applications	
PO2:Write and present a substantial technical report/document	
PO Average:1.73 PO Target: 80% Of PO Average =1.38 PO2 Attainment=2.46	PO2 Target is achieved
Action Taken ➢ Strengthened technical writing through assignments, laboratory records, and structured project documentation ➢ Encouraged presentations through seminars, case studies, and industry visit reports ➢ Promoted the use of relevant standards and codes in technical documentation ➢ Conducted subject viva voce, PPT, poster presentations, and case studies to strengthen technical report preparation and communication skills	
PO 3. Demonstrate a degree of mastery over the area in Structural Engineering	
PO3 Average:2.68 PO3 Target: 80% Of PO1 Average =2.14 PO3 Attainment=2.47	PO3 Target is achieved
Action Taken ➢ Conducted specialized sessions on UHPC, seismic design (PBSD), and smart structures to enhance domain expertise ➢ Organized training programs and workshops on advanced structural engineering tools and techniques ➢ Facilitated exposure to real-time construction practices through industry visits	

➢ Provided hands-on experience in construction practices such as bar bending and pervious concrete	
PO 4. Impart core and interdisciplinary knowledge for analyzing and solving complex problems in structural engineering and related domains.	
PO3 Average:2.68 PO3 Target: 80% Of PO1 Average =2.14 . PO3 Attainment=2.47	PO4 Target is achieved
Action Taken ➢ Organized interdisciplinary workshops on IoT and AI in Structural Health Monitoring (SHM) ➢ Conducted guest lectures on sustainable and innovative infrastructure practices ➢ Facilitated industry exposure through visits to ISRO, ICRISAT, and construction sites ➢ Delivered training on project management tools like Primavera for integrated problem-solving	
PO 5. Conceptualize and design safe, efficient, and sustainable civil engineering structures considering social, economic, and environmental factors.	
PO5 Average:1.99 PO5 Target: 80% Of PO1 Average =1.59 PO5 Attainment=2.52	PO5 Target is achieved
Action Taken ➢ Conducted guest lectures on Green Building design and sustainable construction practices ➢ Organized training on seismic design and retrofitting techniques for safe structural design ➢ Facilitated exposure to sustainable materials like pervious concrete through industry visits ➢ Promoted awareness of environmental and safety aspects through real-time project exposure	
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=2.47	PO6 Target is achieved
Action Taken ➢ Organized expert lectures on entrepreneurship in civil engineering to encourage professional growth ➢ Conducted advanced training programs (Primavera, PBSD, Smart Structures) for continuous skill enhancement ➢ Encouraged participation in workshops, seminars, and industry interactions ➢ Facilitated exposure to diverse domains through industry visits and expert sessions ➢ Organized alumni interactions for career guidance and professional growth	

HOD

Head of The Department
Civil Engineering
Marri Laxman Reddy Institute of
Technology & Management
(UGC-Autonomous)
Dundigal, Hyderabad-500 043.

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
BATCH: 2022-2024
PO ATTAINMENT

S.No	Year/SEM	Subject	Code	PO1	PO2	PO3	PO4	PO5	PO6
1	I Sem	Advanced Structural Mechanics	2212011	2.66	2.84	2.63	2.63	2.74	2.71
2	I Sem	Theory Of Elasticity And Plasticity	2212012	2.29	2.14	2.30	2.30	2.25	2.30
3	I Sem	Structural Stability	2212043	2.41	2.35	2.35	2.35	2.55	2.35
4	I Sem	Advanced Reinforced Concrete Design	2212044	2.64	2.64	2.64	2.64	2.62	2.62
5	I Sem	Computer Aided Design Laboratory	2212071	2.69	2.68	2.68	2.68	2.69	2.68
6	I Sem	Structural Engineering Laboratory	2212072	2.63	2.65	2.60	2.60	2.63	2.60
7	I Sem	Research Methodology & IPR	2212021	1.44	1.44	1.44	1.44		1.44
8	I Sem	Disaster Management	2210002	2.86		2.87	2.84	2.84	2.84
9	II Sem	Finite Element Analysis	2222013	2.66	2.61	2.59	2.68	2.64	2.61
10	II Sem	Structural Dynamics	2222014	2.33	2.34	2.34	2.34	2.37	2.34
11	II Sem	Advanced Structural Steel Design	2222047	2.41	2.45	2.45	2.45	2.41	2.45
12	II Sem	Advanced Prestressed Concrete Design	2222050	2.23	2.22	2.22	2.22	2.20	2.22
13	II Sem	Numerical Analysis Laboratory	2222073	2.80	2.80	2.80	2.80	2.80	2.80
14	II Sem	Advanced Structural Analysis And Design Laboratory	2222074	2.88	2.88	2.88	2.88	2.88	2.88
15	II Sem	Mini Project With Seminar	2222075	2.92	2.92	2.92	2.92	2.92	2.92
16	II Sem	Pedagogy Studies	2220006	2.84	2.84	2.85	2.84	2.85	2.85
17	III Sem	Rehabilitation And Retrofitting Of Structures	2232055	2.80	2.80	2.80	2.80	2.79	2.80
18	III Sem	Fundamentals of Nano Technology	2235503	2.68	2.59	2.70	2.70	2.63	2.66
19	III Sem	Dissertation Work Review – I	2232076	2.84	2.84	2.84	2.84	2.84	2.85
20	IV Sem	Dissertation Work Review – II	2242077	3.00	3.00	3.00	3.00	3.00	3.00
21	IV Sem	Dissertation Viva Voce	2242078	2.40	2.40	2.40	2.40	2.40	2.40
			Average	**2.59**	**2.57**	**2.59**	**2.59**	**2.65**	**2.59**

Head of The Department
Civil Engineering
Marri Laxman Reddy Institute of
Technology & Management
(UGC-Autonomous)
Dundigal, Hyderabad-500 043.

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 –Over All

2022-2024 Batch

Assessment Components (Direct + Indirect)	PO1	PO2	PO3	PO4	PO5	PO6
PO Direct Attainment	2.59	2.57	2.59	2.59	2.65	2.59
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	2.47	2.46	2.47	2.47	2.52	2.47

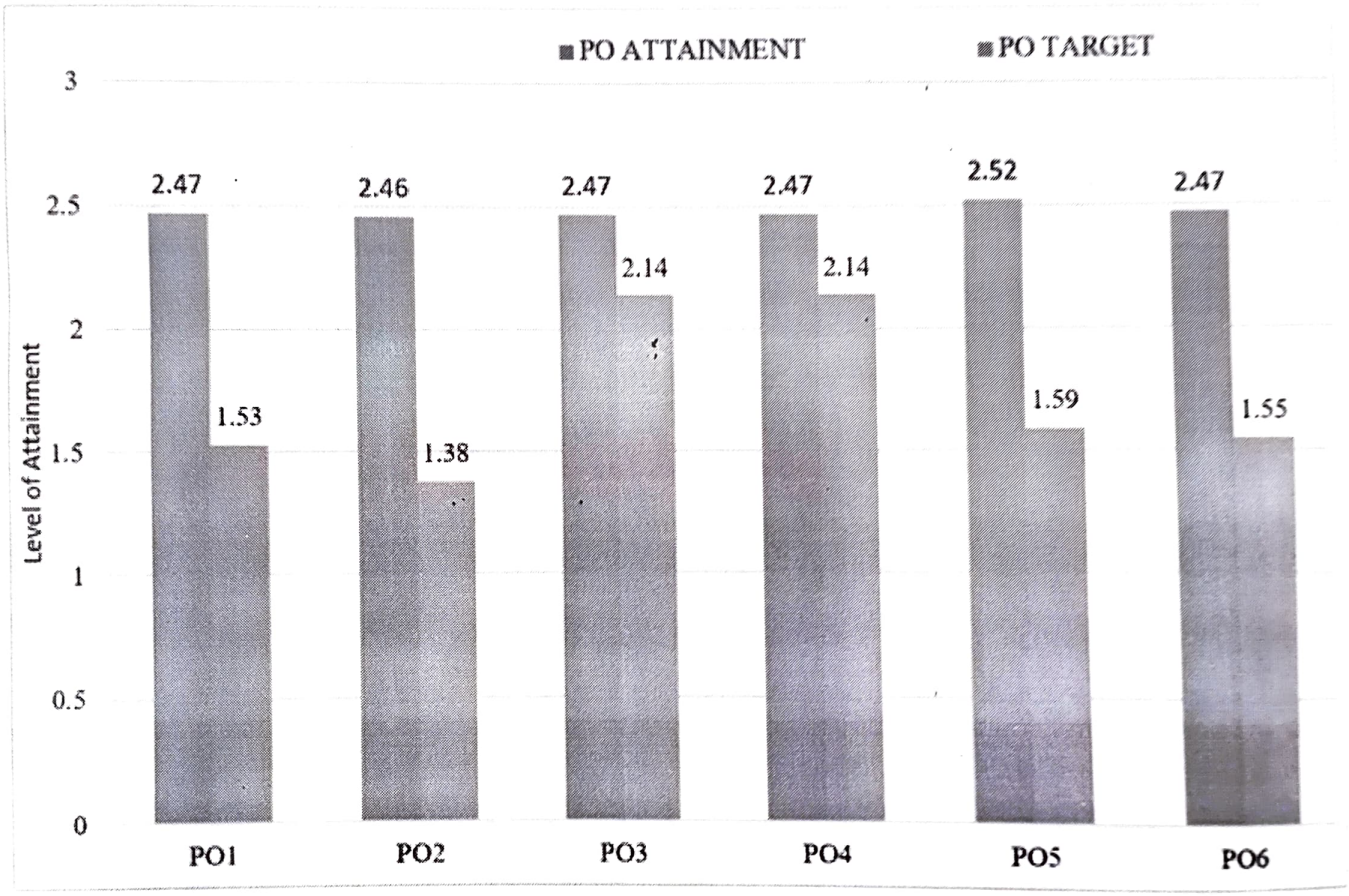
HOD

Head of The Department
Civil Engineering
Marri Laxman Reddy Institute of
Technology & Management
(UGC-Autonomous)
Dundigal, Hyderabad-500 043.

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 –Over All

2022-2024 Batch



HOD

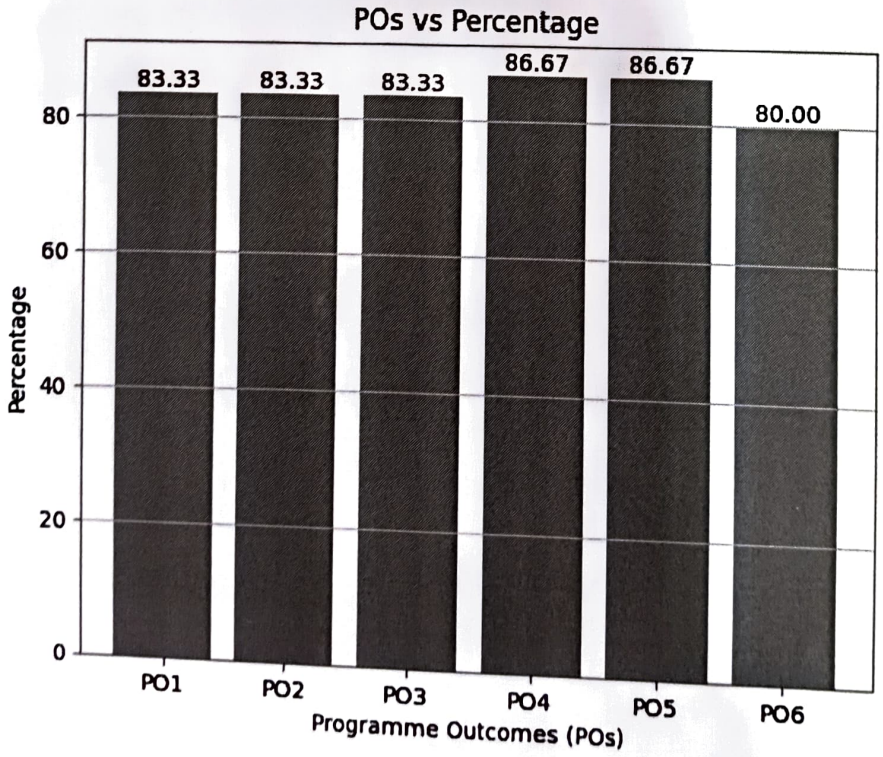
Head of The Department
Civil Engineering
Marri Laxman Reddy Institute of
Technology & Management
(UGC-Autonomous)
Dundigal, Hyderabad-500 043.

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
Program: M Tech Structural Engineering

PROGRAM EXIT SURVEY-2024
(Batch:2022-24)
Feedback on POs

Q.No	PO Statement	Percentage
PO1	Independently carry out research /investigation and development work to solve practical problems	83.33
PO2	Write and present a substantial technical report/document	83.33
PO3	Demonstrate a degree of mastery over the area in Structural Engineering	83.33
PO4	Impart core and interdisciplinary knowledge for analyzing and solving complex problems in structural engineering and related domains.	86.67
PO5	Conceptualize and design safe, efficient, and sustainable civil engineering structures in social, economic, and environmental factors.	86.67
PO6	Engage in lifelong learning through continuous education, research, and professional development.	80.00



The analysis of Programme Outcomes indicates a consistently high level of attainment, with all outcomes achieving between 80% and 86.67%, reflecting strong program effectiveness. Students demonstrated a high ability to independently carry out research and solve practical problems, as well as to write and present technical reports, and attain mastery in structural engineering concepts, each with a solid attainment of 83.33%.

Higher attainment levels were observed in the ability to apply core and interdisciplinary knowledge to solve complex problems and to conceptualize and develop safe, sustainable engineering solutions, both achieving 86.67%, highlighting strengths in analytical thinking and design-oriented competencies.

The outcome related to lifelong learning through continuous education and professional development achieved 80%, indicating a good orientation toward continuous improvement and adaptability.

Overall, the results demonstrate a well-balanced and strong attainment of all Programme Outcomes, indicating that students are effectively developing technical expertise, problem-solving skills, and professional competencies required for successful careers in structural engineering.

HOD

Head of The Department
Civil Engineering
Marri Laxman Reddy Institute of
Technology & Management
(UGC-Autonomous)
Dundigal, Hyderabad-500 043.

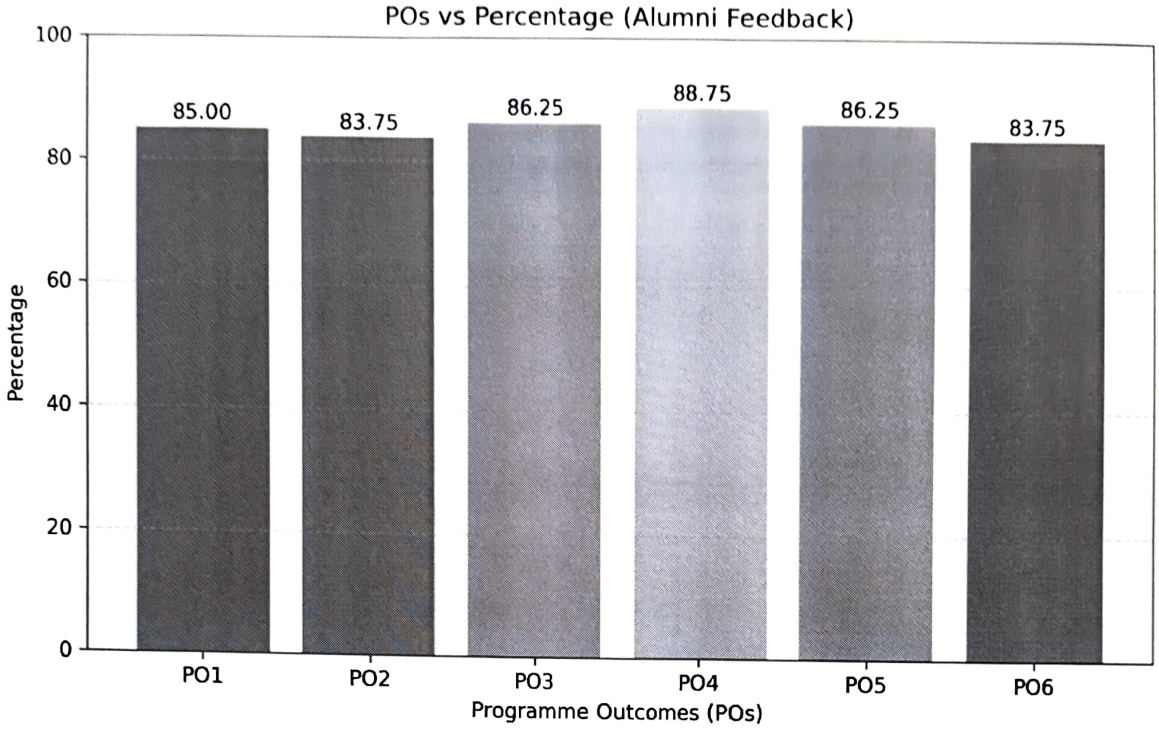
MARRI LAXMAN REDDY
INSTITUTE OF TECHNOLOGY AND MANAGEMENT
(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)
Accredited by NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act,1956

DEPARTMENT OF CIVIL ENGINEERING
Program: M Tech Structural Engineering

ALUMNI FEEDBACK ON PROGRAM OUTCOMES

A.Y 2024-2025

S.No	Alumni	POs					
		1	2	3	4	5	6
1	BANOTHU DHARMABIKSHAM 207Y1D2003	4	4	4	4	4	4
2	KASTHURI VENKATARAMANA 227Y1D2004	4	4	4	4	4	4
3	AEGULA SHRAVAN KUMAR 197Y1D2010	4	4	4	4	4	4
4	NAGAM ANIRUDH 217Y1D2010	4	4	4	4	4	4
5	G SHBHAKAR YADAV 147Y1A2011	4	4	4	4	4	4
6	M.PATEL 147Y1A2005	4	5	4	5	4	5
7	GUGOLOTH YASHODA RANI 197Y1D2011	5	4	5	4	5	4
8	SRIMURTHI SAI KUMAR 197Y1D2009	5	4	5	5	5	4
9	S VENKATESH 157Y1A2014	4	4	4	4	4	4
10	B SAMPURNA 157Y1A2012	5	4	5	5	5	4
11	KASAMMA MOUNIKA 217Y1D2003	5	4	5	5	5	4
12	DONTHURI VENKATESH 207Y1D2005	4	4	4	5	4	4
13	KUNDHI ROHITHKUMAR 227Y1D2005	4	5	4	5	4	5
14	JANGILI RAMAKRISHNA 207Y1D2006	4	4	4	4	4	4
15	MARUPALLI UDAY VENKATESH 207Y1D2011	4	4	4	4	4	4
16	PUNNA SANTHOSH BABU 197Y1D2007	4	5	5	5	5	5
Total Score		68	67	69	71	69	67
Maximum Score		80	80	80	80	80	80
Percentage		**85.00**	**83.75**	**86.25**	**88.75**	**86.25**	**83.75**



The analysis of alumni feedback on Programme Outcomes (POs) indicates a good and consistent level of attainment, with percentages ranging from 83.75% to 88.75%, reflecting satisfactory achievement of the intended learning outcomes. The highest attainment is observed in PO4 (88.75%), indicating that graduates are reasonably strong in applying core and interdisciplinary knowledge to solve complex engineering problems. PO3 and PO5 (86.25%) also show good performance, highlighting adequate domain knowledge and capability in designing sustainable engineering solutions.

Moderate attainment levels in PO1 (85.00%) indicate satisfactory development of research and problem-solving abilities. However, relatively lower attainment in PO2 and PO6 (83.75%) suggests the need to strengthen technical communication skills and promote lifelong learning through continuous professional development activities.

Overall, the results reflect a balanced and stable performance across all POs, with scope for improvement through enhanced communication training, industry interaction, and opportunities for continuous learning to achieve higher levels of excellence.

HOD

Head of The Department
Civil Engineering
Marri Laxman Reddy Institute of
Technology & Management
(UGC-Autonomous)
Dundigal, Hyderabad-500 043.

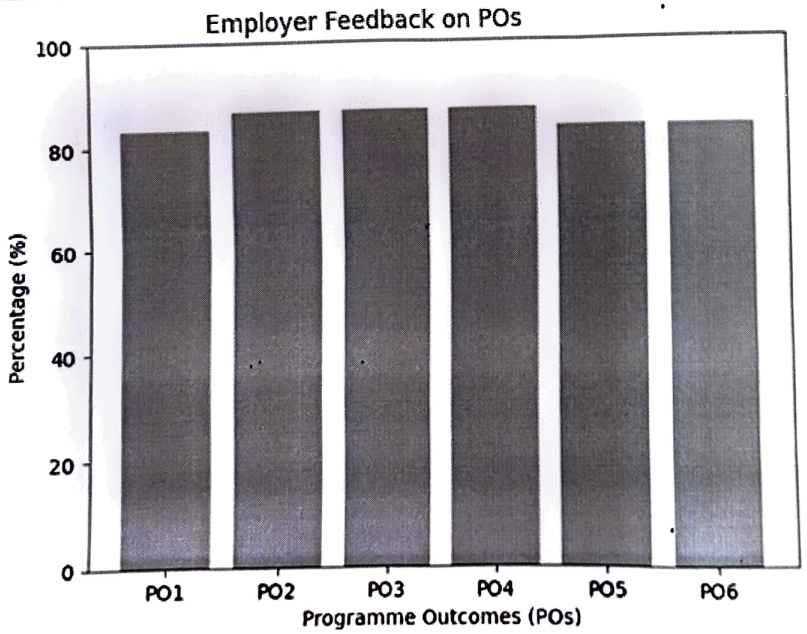
MARRI LAXMAN REDDY
INSTITUTE OF TECHNOLOGY AND MANAGEMENT
(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)
Accredited by NAAC with 'A' Grade & Recognized Under Section 2(f) & 12(B) of the UGC act,1956

DEPARTMENT OF CIVIL ENGINEERING
Program: MTech Structural Engineering

EMPLOYER FEEDBACK ON POs

A.Y 2024-2025

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**



HOD
Head of The Department
Civil Engineering
Marri Laxman Reddy Institute of
Technology & Management
(UGC-Autonomous)
Dundigal, Hyderabad-500 043.