



MARRI LAXMAN REDDY
INSTITUTE OF TECHNOLOGY & MANAGEMENT



NOVEMBER 2021

VOLUME-II

ZENITH

CIVIL ENGINEERING DEPARTMENT



CHAIRMAN MESSAGE



The pride of every student and staff would be in his/her college. A college may reach heights of glory but without materials like a college magazine, the outside world may not know of it. The role of a college magazine is therefore vital in promoting what an institution offers. It brings out into the open things hitherto unrevealed. It brings to light the names of the unsung heroes and their mighty deeds. I am happy that there is a dedicated team of staff and students who have brought out the magazine of our college. They have presented the stupendous achievements of Marri Laxman Reddy Institute of Technology & Management in the fields of academics, research, sports and extra-curricular activities, in a nice way. Dazzle represents the collective work of the team. I wish the magazine a grand success.

TREASURER MESSAGE



It is happiness unlimited to see Marri Laxman Reddy Institute of Technology & Management breaking barriers and moving forward confidently. The adage “Fortune favors the bold” is very true in the case of MLRITM. There is nothing... absolutely nothing that stops the MLRITM juggernaut from rolling forward, going on boldly from one project to another... leaving the spectators spell-bound. Everything that MLRITM touches turns into gold. All these things have been made possible by the extraordinary vision and the immaculate planning of our chairman, which when coupled with the skills of the staff have made the college scale new highs. This magazine brings out the notable achievements of MLRITM. I am sure that through these pages readers will get a bird’s eye view of MLRITM and its wonders.

PRINCIPAL MESSAGE



It is a great pleasure to see the creative expressions of students who had contributed to ZENITH. MLRITM has grown abundantly in the recent past. It continues to sustain its growth. People reading this magazine will realize the tremendous changes that are happening in the MLRITM campus. The magazine is presenting a glimpse of the growth of the institution on many fronts. The college has been simply unstoppable in its progress as it has been actively involved in various activities that have brought to light the hidden talents of the college students and staff. The highly qualified and dedicated members of staff have always stood shoulder with the management and have carried out their duties with a level of commitment. This magazine has recorded achievements such as: conferences attended by staff members and students, competitions won by the hugely talented students, innovative projects carried out by students with the guidance of staff, among others. They stand as a witness to the monumental efforts taken by the management to make the college a centre of excellence in education and research. I wish the management, staff and students of the college success in their future endeavors.

HEAD MESSAGE

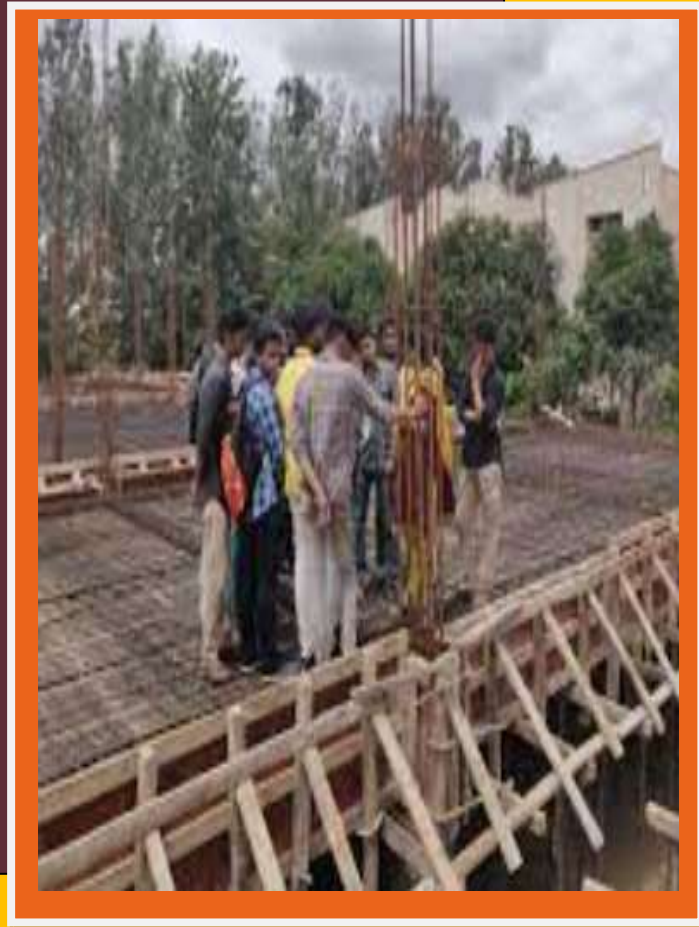


I am happy to learn that MLRITM College of Engineering is coming out with the half yearly college magazine. Efforts such as this will provide an opportunity for the staff and students to showcase their talents in technical writing, essay and poetry writings, sketching and drawings, among others. Such value additions are very much essential for the young technocrats, engineers and scientists, who the college produces, to demonstrate their ideas for a developed India. I sincerely appreciate and congratulate the Chairman, Principal, the editorial team and the entire management of the college for their unrelenting efforts in compiling this magazine.

FIELD VISIT TO “ARUNDHATHI MEDICAL COLLEGE BUILDING”

Students of Civil engineering Department are continuously exposed different stages of construction of Arundhathi Medical college Building like, Excavation work, footing, Slab Design And Ramp design of class rooms. Students from second year to final year are taken to the construction site in batches with each batch comprising of 30-40 students and were exposed to practical knowledge about construction techniques.

Dr.Saravanan Head of the department along with Dr.Gopi and Mr.K.Murali Assoc.Prof have guided the students with technical information through out the visit.





INDUSTRIAL VISIT TO "TELANGANA UNDERPRIVILEGED 2BHK HOUSING PROGRAMME"

Department of Civil Engineering, MLRITM organized industrial visit to "Telangana Underprivileged 2BHK Housing Programme" for students of third and Final year on Oct 31 2021. 90 Students have visited the site along with Assistant Professors Sk.Ziaur Rehman and Basavaraj

ONLINE GUEST LECTURE ON "ADMIXTURE IN CONCRETE"

Department of Civil Engineering, MLRITM organized Online Guest lecture on Admixture in Concrete on 08.07.2021 with 60students by Dr.V.Ramachandra, Head Tech Services), Ultratech Cement Ltd.



GUEST LECTURE ON “GLOBAL ISSUES IN WATER, SANITATION AND HEALTH”

Department of Civil Engineering, MLRITM organized Guest lecture “Global issues in Water, Sanitation and Health” on 06.10.2021 with 100 students and 12 faculty by Dr.K.Siva Prasad, Scientist, National Institute of Hydrology, Kakinada.



SCOPUS JOURNALS PUBLICATIONS- FACULTY

S. No	Names of authors (as published)	Title	Journal Name	Month & Year of Publication	Vol. No., Issue No., Page No.
1	Kallempudi Murali, T. Meena	An Experimental investigation on the mechanical properties of glass fibre reinforced Geopolymer Concrete	The Indian Journal	Jul-21	Vol. 95, No. 7, pp. 23-30.
2	A.R. Krishnaraja, M. Harihanandh, S. Anandakumar	Mechanical performance of engineered cementitious composites developed with different modulus fibers	Cement Wapno Beton	2021	26(6), 493-502
3	K.S.Elango, P.R.Remya, D.Vivek, R.Gopi, V.Rajeshkumar, R.Saravanakumar	Strength and Durability studies on ficus exasperata leaf ash concrete	Materials Today: Proceedings	2021	37, 2, 999-1002

4	C.Kaleeswaran, R.Saravanakumar, D.Vivek, K.S.Elango, R.Gopi , D.Balaji	A Study on cold formed steel compression member–A Review	Materials Today: Proceedings	Aug, 2021	37, 2, 1767-1771
5	K.S. Elango, R. Gopi , R. Saravanakumar, V. Rajeshkumar, D. Vivek, S.Venkat Raman	Properties of pervious concrete – A state of the art review	Materials Today: Proceedings	October, 2021	45, 2, 2422-2425
6	K.S. Elango, R. Gopi , C. Jayaguru, D. Vivek, R. Saravanakumar, V. Rajeshkumar	Experimental investigation on concrete beams reinforced with basalt fiber reinforced polymer bars	Materials Today: Proceedings	October, 2021	45, 2, 2426-2429
7	Vajja Varalakshmi , D. Rupendra, M. Nanditha	Comparative Study of Air Pollution in Telangana State Before and After the Lockdown due to COVID-19	Indian Journal of Ecology	2021	48, 14, 27- 33
8	Guguloth Bixapathi, M.Saravanan	Strength and durability of concrete using Rice Husk ash as a partial replacement of cement	Materials Today: Proceedings	2021	Article in Press
9	M.Saravanan , M.Harihanandh, R.Gopi, V.Sathishkumar, N.Srimathi	Algorithm for optimum design of space trusses	Materials Today: Proceedings	2021	Article in Press
10	M. Saravanan , R. Gopi, M. Harihanandh	Durability properties of self compacting self curing concrete with presaturated light weight aggregates	Materials Today: Proceedings	2021	45, 9, 7805-7809
11	Aegula Shravan Kumar, R.Gopi	Strength and durability studies on paver blocks with rice husk ash as partial replacement of cement	Materials Today: Proceedings	2021	Article in Press
12	Supraja Duppati, R.Gopi	Strength and durability studies on paver blocks with rice straw ash as partial replacement of cement	Materials Today: Proceedings	2021	Article in Press
13	Aegula Shravan Kumar, R. Gopi , K. Murali	Comparative studies on conventional concrete and self- curing concrete	Materials Today: Proceedings	2021	46, 17, 8790-8794
14	Supraja Duppati, R. Gopi , K. Murali	Earthquake resistant design of G + 5 multistorey residential building using STAAD.pro	Materials Today: Proceedings	2021	46, 17, 8807- 8811

VISION OF THE DEPARTMENT

VISION:

The Civil Engineering department strives to impart quality education by extracting the innovative skills of students and to face the challenges in latest technological advancements and to serve the society.

MISSION OF THE DEPARTMENT

MISSION:

M-I Provide quality education and to motivate students towards professionalism.

M-II Address the advanced technologies in research and industrial issues.

PEO's

The Programme Educational Objectives (PEOs) that are formulated for the civil engineering programme are listed below:

PEO-I solving civil engineering problems in different circumstances

PEO-II Pursue higher education and research for professional development.

PEO-III Inculcate qualities of leadership for technology innovation and entrepreneurship

PROGRAM OUTCOMES (POs)

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES

- ❖ **UNDERSTANDING:** Graduates will have ability to describe, analyze and solve problems using mathematical, scientific, and engineering knowledge.
- ❖ **ANALYTICAL SKILLS:** Graduates will have an ability to plan, execute, maintain, manage, and rehabilitate civil engineering systems and processes.
- ❖ **EXECUTIVE SKILLS:** Graduates will have an ability to interact and work effectively in multi disciplinary teams.

