MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY & MANAGEMENT



VOLUME-II







CHAIRMAN MESSAGE



TREASURER MESSAGE



PRINCIPAL MESSAGE



HEAD 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.

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.

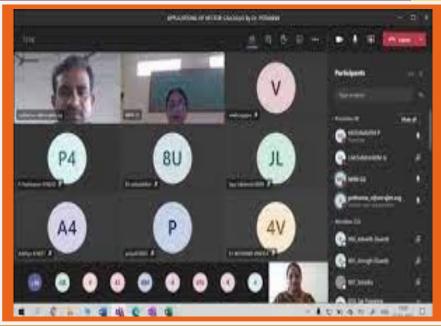
It is a great pleasure to see the creative expressions of students who had contributed to ZENITH. MLRITM has grown abundantly in the recent past. It continues to sustain its growth. People reading this magazine will realize the tremendous changes that are happening in the MLRITM campus. The magazine 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.

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.

GUEST LECTURE ON "BRIDGE ENGINEERING"

The Department of Civil Engineering has arranged an online guest lecture on Bridge Engineering was

delivered by Mr.V.Kasiraja, General Manager & Head, Special Projects & Construction methods , L&T Construction, Chennai. His talk went over the ideas involved in bridge and culvert design and construction. He also talked about the many difficulties that can arise both during and after the construction.





GUEST LECTURE ON "SURVEYING TECHNIQUES – DRONE & DGPS"

Department of Civil Engineering, MLRITM organized an online guest lecture Advanced Trends in Surveying Techniques – Drone & DGPS Surveying on 18.07.2020 for the students of B. Tech Civil Engineering. Total 90 Students have participated in this guest lecture. This workshop intends to give staff and students a platform to comprehend total station concepts and their practical applications in the field of civil engineering. The resource person was Mr. Rajesh Kumar of Tech Apps Consulting Services in Chennai.

EVENTS CONDUCTED UNDER STUDENT CHAPTER

S.NO	PROGRAM NAME	ORGANIZED BY	DATE
1	Webinar on "Construction chemicals in future"	ACCE	16.12.2020
2	E-Workshop on "Quantity Surveying – Building & Bridges"	ACCE	28.10.2020- 30.10.2020
3	Online Guest lecture on "Advanced Trends in Surveying Techniques - Drone & DGPS Surveying"	ACCE	18.07.2020

DST PROJECT DETAILS

S.NO	PROJECT TITLE	DURATION	FUNDING AGENCY	AMOUNT
	ECONOMIC EMPOWERMENT OF RURAL WOMEN OF QUTHBULLAPUR MANDAL			4723352
1	(RANGAREDDY DISTRICT, TELANGANA STATE) THROUGH VALUE ADDITION TO	3 YEARS	DST	TOTAL
	UNUTILISED BIOMASS FROM FRESH WATER PONDS/LAKES AND WASTE WATER MANAGEMENT TECHNOLOGIES.			AMOUNT(Y): 4723352.00

SCOPUS JOURNALS PUBLICATIONS

S.NO	NAMES OF AUTHORS (AS PUBLISHED)	TITLE	JOURNAL NAME	NO.,ISSUE NO.,PAGE	MONTH & YEAR OF PUBLIC ATION
1	Dr.M.Harihanandh,	Behaviour of Concrete Using	International Journal	29, 7,	2020
	Dr.R.Gopi,	Bottom Ash as Fine	of Advanced Science	866-874	
	Dr.M.Saravanan	Aggregate	and Technology		
2	Dr.M.Harihanandh,	Corrosion Study On Epoxy	International Journal	29, 7,	2020
	Mr.A.R.Krishnaraja,	Phenolic Interpenetrating	of Advanced Science	849-858	
	Mr.K.E.Viswanathan	Polymer Network System	and Technology		
		Laminated Reinforcement			
3	Dsvsmrk Chekravarty,	Study on the effect of	I-Manager's Journal	8, 4,	2020
	A.Mallika,	Nanosilica on mechanical	on Structural	41-48	
	P.Sravana,	properties of concrete- A	Engineering		
	P.Srinivasa Rao	Review			
4	J.Seetunya,	Case Study on Cost Analysis	International Journal	9, 2,	Feb, 2020
	V.Varalakshmi	of Anti-Corrosive paintings	of Application or		
	D.Rupendra,	& greasing for railway tracks	Innovation in		
			Engineering &		
			Management		
			(IJAIEM)		

5 Gopi. R , Influence of Prewetted Rice Journal of S	uctural 5, 1, March,
Saravanan. Husk Ash Aggregate Pellets Technology	30-35 2020
M, Harihanandh. in Concrete	
6 A.K. Aman, Optimization of Dampers Internation	Journal 9,4, April,
A.Vimala, Position in High Rise of Engineer	· · · · · · · · · · · · · · · · · · ·
M.Saravanan Building Advanced	1340
Technology	
7P.Prathyusha,Mechanical Properties ofInternational	Journal 29, 5, May,
M. Jugal Kishore, Glass Fiber Reinforced of Advance	
K. Siva Kiran, Concrete Using Silica Fume and Techno	
Dr. M. Saravanan & Quarry Waste as Partial	
Replacements	
8 Ms. G Divya, Performance of recron-3s Internation	Journal 9,5, pp. May,
Mr. R Shiva Krishna, Mr. fiber on Black cotton soil of Applicat	
Sai pavan manoj, Innovation	1
Dr. M. Saravanan Engineering	&
Managemen	
9 R.Gopi , M.Harihanandh, Influence of Presaturated Journal of C	
M.Saravanan, Sugarcane Bagasse Ash Reviews	648-652 2020
K.S.Elango Pellets in Concrete	
10 Anusha Reddy Moole, Planning, Analysis, Design Internation	Journal 7, 5, May,
Snehith Kumar Bokka, and Estimation of an IT of Current	2020
Aravind Reddy Sama, company building Engineering	and
Gopi. R Scientific Ro	earch
11 S. Vandana, An Experimental Study on Internation	Journal 8, IV, May,
M. Harihanandh Concrete with Waste for Research	in 162-175 2020
Coconut Shell as a Partial Applied Sci	nce &
Replacement to Coarse Engineering	
Aggregates Technology	
12Karthik.V,Flexural Behavior of SCCInternational	
V, Sathish Kumar,with Copper Slag as Partialof Recent Television	hnology 1139-1145 2020
Srimathi.N, Poornima.P Replacement of Fine and Engine	ring
Aggregate. (IJRTE)	
13V.Satish Kumar,Experimental InvestigationInternation	
A.Lakshmi Neeharika, on Performance of M25 for Scientifi	Research 862-864 2020
C.Naveen Kumar, Grade Steel Fiber Reinforced & Developm	ent
S.J.Shahid Afridi Concrete	
14 Gundavarapu Poojitha, A Study on The Air Quality Internation	
Rupendra DuggiralaIndexing at Bollaramof Application	
Industrial Area In Innovation	
Hyderabad Engineering	
Managemen	
(IJAIEM)	
15Seetunya Jogi,Comparative Analysis ofInternational	
	e 36-41 2020
Neelima Dasari, Concrete Strength Against of Progress	
Vijaya Bhavani Daripalli, Recyclable Ballast and Research in	cience
Vijaya Bhavani Daripalli,Recyclable Ballast andResearch inPriyanka SuryawanshiGranite Scrap as Partialand Engine	cience
Vijaya Bhavani Daripalli, Recyclable Ballast and Research in	cience

16 17 18	Shaik Zia ur Rahman, K. Balakrishna, M.Ramesh. Rohith Reddy. D, Sai Srinija. M, Lavanya. B Revansiddappa,	Analysis and design of flyover bridge Simulation of building using STAAD.Pro Cost assessment of different	International Journal of Progressive Research in Science and Engineering International Journal of Progressive Research in Science and Engineering Journal of Critical	1, 2, pp.59-63 1,2, pp.51- 58 7, 12,	May, 2020 May, 2020 May,
	R.Gopi, R.Saravanakumar, S.Dineshkumar, S.Saravanaganesh, A.Chandrasekar	grades of concrete by different mix design methods	Reviews	pp. 682-685	2020
19	Dr.Varalakshmi Vajja	Ground Water Potential Zones Using Vertical Electrical Sounding (VES) Data in Osman sagar and Himayath Sagar Reservoirs Catchment Area	Clay Research	39, I, 16-22	June, 2020
20	E. Dayana Krishna Veni, Rupendra Duggirala	A Study on Air Quality Index at Ida Pashamylaram in Hyderabad	International Journal of Engineering Research in Mechanical and Civil Engineering	5, 6, 1-4	June, 2020
21	Mr. B. Anuraag, Dr. M. Saravanan	Construction Challenges of Rion-Antirion Bridge	International Journal of Engineering Research in Mechanical and Civil Engineering	5,7, pp.	July, 2020
22	N. Srimathi , V. Sathish Kumar , P. Poornima , M.Saravanan, M.Harihanandh	Exploration of Road Indices of Coimbatore City	Solid State Technology	63,5, 1249-1257	Augus t, 2020
23	Dr.Varalakshmi Vajja	Reasons for Increasing Corona Cases During Lockdown-Case Study of India	Special Issue on Covid 19 in the Disaster Advances	13, 11, 76-78	Nov, 2020
24	Shenbagam Natarajan, Saravanan Murugesan , Jenith Hiriyan Swaminathan	Design and Optimization of Reinforced Concrete Slabs by using Non- Traditional Optimization Techniques	IOP: Materials Science Engineering	955, pp.01- AUG	Nov, 2020
25	Saravanan Murugesan	Design Optimization of Reinforced Concrete Beams by Genetically Optimized Neural Network Technique	IOP: Materials Science Engineering	955, pp.	Nov, 2020

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.

<u>PEO's</u>

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.*

EVERYDAY IS AN ADVENTURE -WER-YOUAREA **GVLLENGNEE**R