MARRI LAXMAN REDDY
INSTITUTE OF TECHNOLOGY & MANAGEMENT

APRIL 2021

VOLUME-I

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

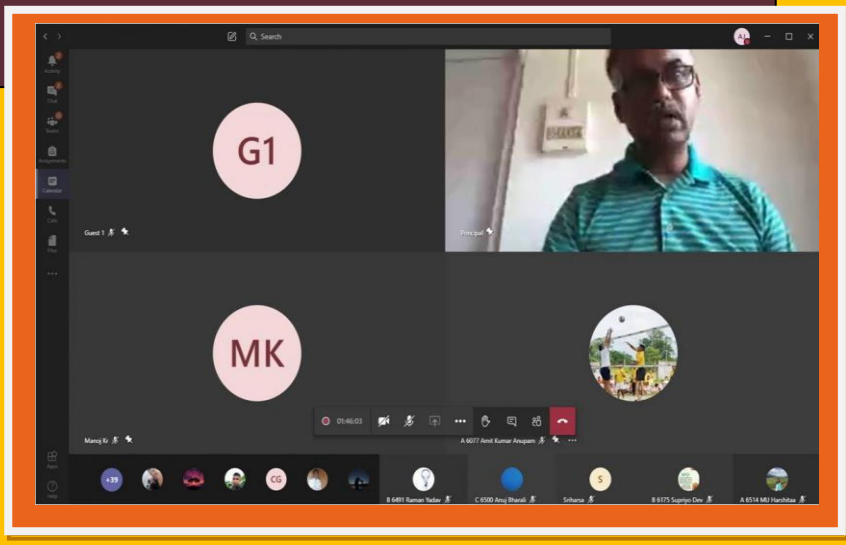
It is a great pleasure to see the creative expressions of students who had contributed to ZENITH. MLRITM has grown abundantly in the recent past. It continues to sustain its growth. People reading this magazine will realize the tremendous changes that are happening in the MLRITM campus. The magazine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

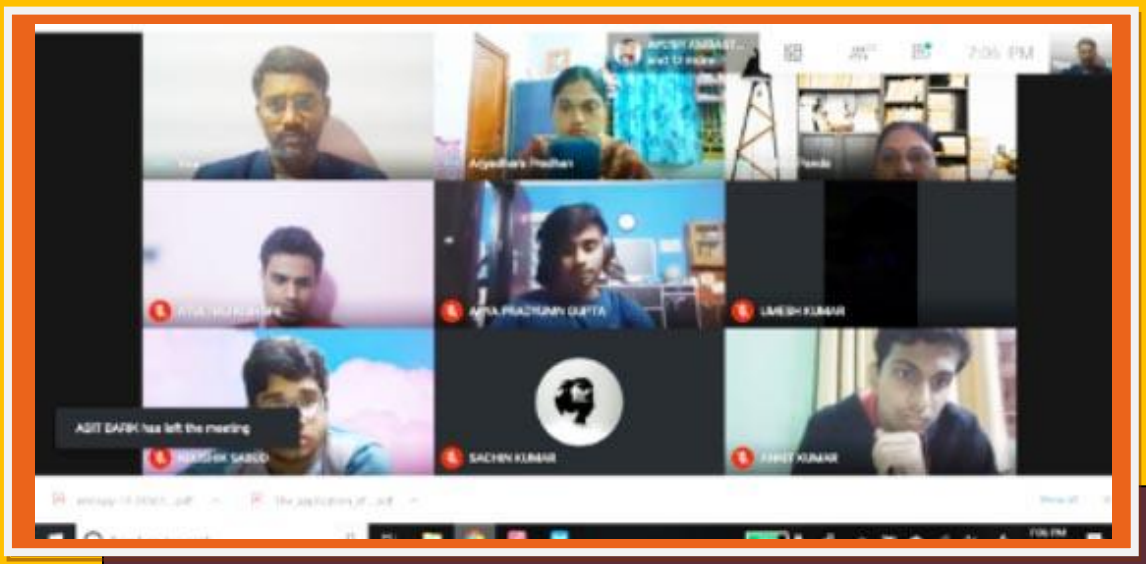
HEAD MESSAGE

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.

GUEST LECTURE ON “CONSTRUCTION CHEMICALS IN THE FUTURE “

The Civil Engineering Department hosted an online webinar on "Construction Chemicals in the Future" on December 16, 2020. The day's speaker was Dr.VSJ Yeswanth Paluri, an assistant professor at the Bapatla Engineering College in Bapatla. The lecturer went into great detail about the functions of various Admixtures (chemical substances used in building). He stressed that the main components that do affect the strength of the concrete, workability, retention, etc. are chemical compounds. Additionally, these chemical ingredients change the concrete's behavioural and chemical properties, which are crucial for carrying out any work.





GUEST LECTURE ON “BUILDING INFORMATION MODELLING”

The Civil Engineering Department organized an online webinar on “Building Information Modelling” on March 3, 2021. The day's speaker was Mr.B.Dineshkumar, Assistant Professor, Department of Civil Engineering, Thiagarajar College of Engineering, Madurai.

Audience: Civil staff and students

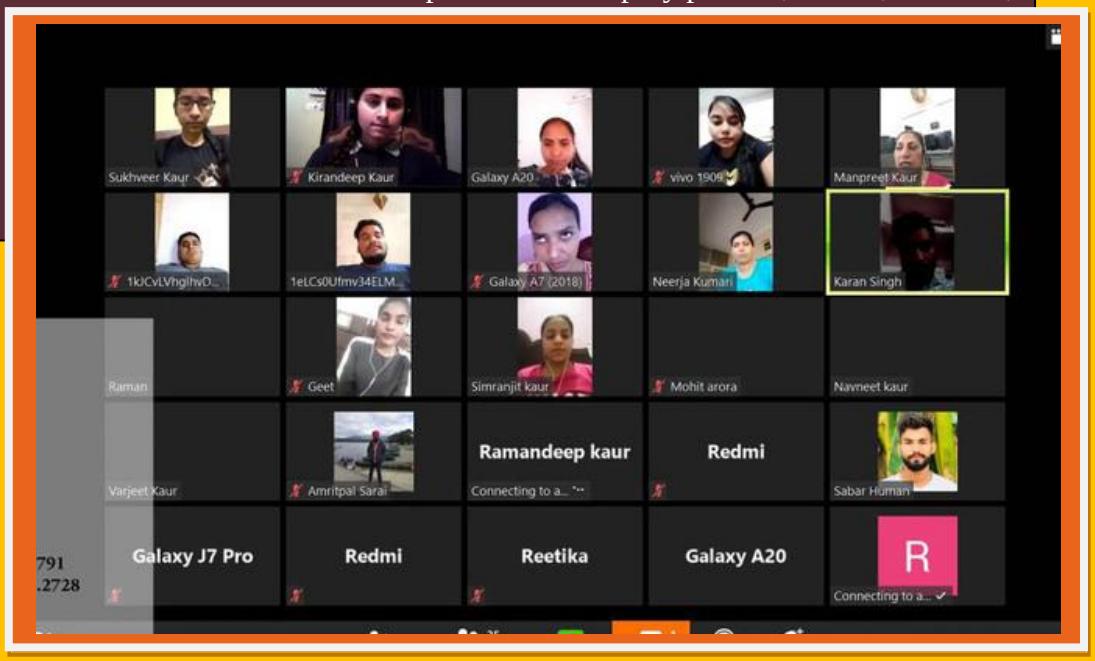
Date: 15/03/2021

GUEST LECTURE ON "3-D PRINTING TECHNOLOGY"

The Civil Engineering Department organized an online webinar on "3-D Printing Technology" on April 6, 2021. The resource person was Er.R.Udhayasankar, M.D. – BTR Construction, Erode.The resource person spoke at length on the use of 3D printing in construction. A 3D printer is fed by a digital file that contains the characteristics of the thing to be created, which is a cutting-edge procedure. Some words used to describe it include AM (additive manufacturing), additive fabrication, additive processes, direct digital manufacturing, rapid prototyping (RP), layer manufacturing, and solid freeform fabrication. Construction-related 3D printers can employ plastics, metals, concrete, sand, and resins.

Audience: Civil staff and students

Date: 06.04.2021



TECH FEST- UTHKRISHT 2K21

(SCREENSHOT OF STUDENT PARTCIPANTS DURING ONLINE FEST)

STUDENT BEST PROJECTS

S.No	Project title	Name of student	Name of internal guide	Relevance to POs & PSO
1	Soil Stabilization using Geosynthetic materials Bamboo fibres	MD Dastagir Uddin, M.Dineshkumar, Polepally Jayasimha	Dr.M.Saravanan	PO-1,3,4,8,9,12 PSO-2,3
2	Coconut shell as partial replacement for coarse aggregate in concrete	C.Priyanka, K. Navya	Dr.M.Harihanandh	PO-1,3,4,8,9,12 PSO-2,3
3	Performance evaluation of Pragathi nagar sewage treatment plant	R.Ganesh, E.Gowtham, G.Madhukar	Mr.Rupendra Duggirala	PO-1,3,4,7,8,9,12 PSO-2,3
4	Experimental study on self compacting concrete using industrial waste	Chette Raju, Surna Akshay Kumar	Mr.T.Jayakrishna	PO-1,3,4,8,9,12 PSO-2,3
5	Partial replacement of cement in concrete using ceramic waste	Shahreyar Amir, MD Arman Khan	Mr.Amish Kumar Aman	PO-1,3,4,8,9,12 PSO-2,3
6	Seismic Analysis of a reinforced concrete multistoried (G+3) structure	Nathyam Mounika	Dr.R.Gopi	PO-1,2,3,5,8,9,12 PSO-1,2,3

STUDENT INTERNSHIPS

S.No	Name of the Student	Roll No.	Company Name	Duration
1	Ravi Teja	187Y1A0130	My Home Constructions	12.04.2021 – 12.06.2021
2	R.Suyash Kumar	187Y1A0140	My Home Constructions	12.04.2021 – 12.06.2021
3	Patthi Kishore	187Y1A0155	My Home Constructions	12.04.2021 – 12.06.2021
4	Rottam Praveen	197Y5A0124	My Home Constructions	12.04.2021 – 23.05.2021
5	Madapathi Navnath Swamy	197Y5A0140	My Home Constructions	12.04.2021 – 23.05.2021
6	P.Surya Vardhan Reddy	177Y5A0112	My Home Constructions	12.04.2021 – 23.05.2021
7	Peddabai Spandana	197Y5A0130	Subishi Infra	01.04.2021 to 20.04.2021
8	A.Vinay Kumar	187Y1A0187	Subishi Infra	01.04.2021 to 20.04.2021
9	Gaddi Prashanth	197Y5A0122	Subishi Infra	01.04.2021 to 20.04.2021
10	Govardhan Goud	187Y1A0152	Raster Engineers Pvt Ltd	20.12.2021 to 31.12.2021
11	Bandaru Pavan	187Y1A0122	Raster Engineers Pvt Ltd	20.12.2021 to 31.12.2021
12	Sk.Nagulmeera	177Y1A0118	Yuktha Developers	08.02.2021 to 20.02.2021
13	Yatakarla Geethanjali	187Y5A0105	Yuktha Developers	08.02.2021 to 20.02.2021

14	K.Sri Rajkiran	187Y5A0118	Yuktha Developers	08.02.2021 to 20.02.2021
15	Maloth Ashok	177Y1A0107	Wall to Wall interiors	18.01.2021 to 20.02.2021
16	Vishwa Sai	177Y1A0144	Wall to Wall interiors	18.01.2021 to 20.02.2021
17	Thirupathi.Sirisha	187Y5A0124	Wall to Wall interiors	18.01.2021 to 20.02.2021
18	Jadav Suraj	187Y1A0138	Madhura Landscapes	08.03.2021 to 20.03.2021
19	N.Pavan Teja	197Y5A0123	Madhura Landscapes	08.03.2021 to 20.03.2021
20	Rekapalli Venkata Lakshmi Mani malathi	187Y1A0143	Madhumitha Constructions	01.06.2021 to 10.06.2021
21	Anusha Arepally	187Y1A0148	Madhumitha Constructions	01.06.2021 to 10.06.2021
22	T.Praharsha	187Y1A0141	Yuktha Developers	01.09.2021 to 02.10.2021
23	Vadla Sandeep	197Y5A0132	Larsen & Toubro Limited	02.11.2020 to 21.11.2020
24	D.Uday Rama Krishna	187Y1A0184	Larsen & Toubro Limited	02.11.2020 to 21.11.2020
25	Thattepally Satish	197Y5A0133	Larsen & Toubro Limited	02.11.2020 to 21.11.2020
26	Md.Omer Shahzab	187Y1A0121	Larsen & Toubro Limited	02.11.2020 to 21.11.2020
27	D.Sushmaraj	187Y1A0139	BPR Infratech	01.09.2020 to 30.09.2020
28	Mubeena Sulthana	197Y5A0128	BPR Infratech	01.09.2020 to 30.09.2020
29	M.A.Waiz	197Y5A0139	BPR Infratech	01.09.2020 to 30.09.2020
30	Kasala Yashwanth Reddy	187Y1A0146	BPR Infratech	01.09.2020 to 30.09.2020
31	Patnam Mukesh	197Y5A0113	BPR Infratech	01.09.2020 to 30.09.2020
32	Elmala Praveen	197Y5A0118	BPR Infratech	01.09.2020 to 30.09.2020
33	Debbati Sai Avinash	187Y1A0133	Skyfi Labs	01.08.2020 to 31.10.2020
34	Rasagna Deshpande	177Y1A0129	Risinia Trendilla	06.11.2020 to 20.11.2020

STUDENT ACHEIVEMENTS

S.NO	ACTIVITY	COUNT
1	INTER COLLEGE FEST PARTICPATIONS AND WINNERS	59
2	NUMBER OF STUDENTS EXPOSURE TO INDUSTRIES THROUGH INTERNSHIPS	34
3	CERTIFICATION COURSES COMPLETED	42
4	NUMBEROF STUDENTS PLACED	94
5	NO OF STUDENTS PURSUING HIGHER EDUCATION	5

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.*


EVERYDAY IS AN ADVENTURE
-WHEN-
YOU ARE A
CIVIL ENGINEER