



# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

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## Report on

## National Webinar on

## “Inclination of Construction Industries Towards Geospatial Technology”

Conducted on **20.09.2023**, Wednesday from **2.30 PM to 5.00 PM** in Seminar Hall A

### Organised by

Department of Civil Engineering,

ASCE – Student Chapter, MITS

### In Collaboration with

Entrepreneurship Development Cell-MITS

**Co-ordinated & Submitted by:** Mr.Vinothkumar. R, Assistant Professor / Civil Engineering, Dept Co-ordinator – ED Cell, MITS.

**Resource Person:** Dr. V. Rajesh Kumar Head, EDRC-Digital, III SBG, Water and Effluent Treatment IC, L&T, Chennai.

**Total Participants:** 110 Students [II Yr: 52 ; III Yr: 37 ; IV Yr: 21]

 <b>MADANAPALLE INSTITUTE OF TECHNOLOGY &amp; SCIENCE</b> (UGC-AUTONOMOUS INSTITUTION) www.mits.ac.in Madanapalle-517325, Annamayya Dist., Andhra Pradesh					
     					
Entrepreneurship Development Cell- MITS In association with Department of Civil Engineering, American Society of Civil Engineers (ASCE)					
<b>National Webinar on</b> <b>“Inclination of Construction Industries Towards Geospatial Technology”</b>					
<b>Resource Person</b> <b>Dr. V. Rajesh Kumar</b> Head, EDRC-Digital, III SBG, Water and Effluent Treatment IC, L&T, Chennai					
<b>Date: 20-09-2023</b>		<b>Time: 2.30pm to 4.30pm</b>		<b>Venue: Seminar Hall A</b>	
Chief Patron Dr.N.Vijaya Bhaskar Choudary , Ph.D., Secretary & Correspondent		Patron Mrs.Keerthi Nadella Executive Director		Program Chair Dr.C.Yuvaraj Principal	
Co-ordinator Mr. Vinoth Kumar R Asst.Professor-Civil		Student Coordinator Ms. M. Manogna IVth Year-Civil		Co-Chair Dr. Dipankar Roy HoD-Civil	
Convener Dr.Prem Knowles Head, ED-Cell					



The Department of Civil Engineering, MITS and ASCE – Student Chapter organised National Webinar on “Inclination of Construction Industries towards Geospatial Technology” in Collaboration with our MITS Entrepreneurship Development Cell on 20 / 09 / 2023, Wednesday from 2.30 PM to 05.00 PM. The resource person of this program was **Dr. V. Rajesh Kumar Head, EDRC-Digital, III SBG, Water and Effluent Treatment IC, L&T, Chennai.**

The programme started at 2.30 PM with a welcome address to all the audience by Ms.Manogna, IVth year student of Department of Civil Engineering. Dr. K. Arul Kumar, Institute Innovation centre(IIC) convenor & Associate Professor, Department of EEE, MITS, Madanapalle, shared the importance of developing innovation skills and forming entrepreneurial ecosystem within the campus. Dr. DIPANKAR ROY, HOD/Civil addressed the students regarding the guest lecture topic and the importance of GIS & BIM Software.

Dr.Prem Knowles, Head, ED-Cell, MITS addressed the students regarding the entrepreneur opportunities for Civil Engineers.He also point out the job market of civil engineers in national and global market. The Civil Engineering market projected to grow from USD 4964.4 billion in 2021 to USD 7834.5 billion by 2030, exhibiting a compound annual growth rate (CAGR) of 5.2% during the forecast period (2022 – 2030. Mr.Vinothkumar.R Assistant Professor / Civil Engineering, Dept. Co-ordinator – ED Cell, Welcomed the resource Person and given brief introduction about resource Person of this program to the participants.



**Fig (i) :** Ms.M.Manogna MITS - ASCE Student Chapter, Student Co-ordinator ED-Cell, Welcomed all the dignitaries on the dias.



**Fig (ii) :** Dr. DIPANKAR ROY, HOD/Civil address the students regarding the guest lecture topic, importance of GIS, BIM Software





**Fig (iii) :** Dr. K. Arul Kumar, IIC Convenor shared the importance of developing innovation skills.



**Fig (iv) :** Dr.Prem Knowles, Head,ED -Cell , MITS addressed the students regarding the entrepreneur opportunities for Civil Engineers.



**Fig (V & Vi) :** Mr.Vinothkumar.R Assistant Professor / Civil Engineering, Dept Co-ordinator – MITS, ED Cell, welcomed the Resource Person and gave brief introduction about Resource Person of this program to the Participants



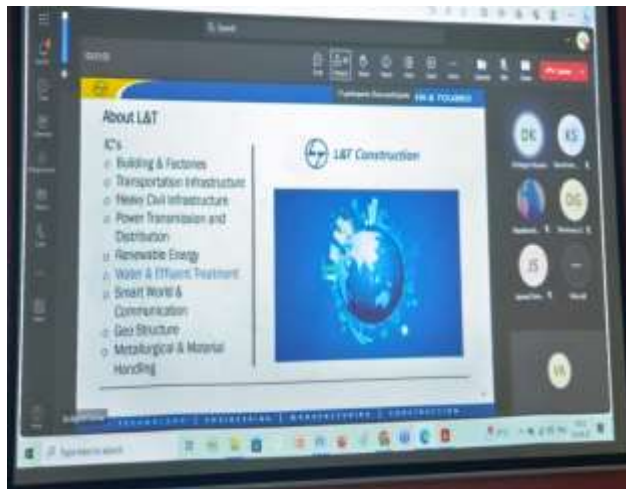
**Fig(vii):** Total Participants of 110 ( II, III & IV year Civil Students) in Seminar Hall A, attending the Webinar Program.

The Resource Person **Dr. V. Rajesh Kumar** started the session by extending his hearty thanks to the participants, organizing members, HoD, Principal and Management of MITS Madanapalle for giving him opportunity to share his knowledge and experience in “Geospatial Technology”

The resource person has shared the importance of entrepreneurship and innovation for the development of economy and creating job opportunities.

**He has highlighted his Guest Lecture in four schemes:**

- (i) About L&T construction, Various Fields & Divisions**
- (ii) Opputunities for UG & PG Students in L&T**
- (iii) Geospatial Technology**
- (iv) Remote sensing, GPS, GIS.**



**Fig(viii):** Resource person delivered about L&T Construction and Various divisions in L & T



**Fig(ix):** Resource person delivered about L&T Campus Recruitment for UG & PG Students

Geospatial Technology is an emerging field of study that includes Geographic Information System (GIS), Remote Sensing (RS), and Global Positioning System (GPS). Geospatial technology enables us to acquire data that is referenced to the earth and use it for analysis, modeling, simulations, and visualization.



Geospatial technologies include remote sensing, Geographic Information Systems (GIS), and Geographic Positioning Systems (GPS). Geospatial technologies can be used for all sorts of activities, such as military use, environmental use, and everyday use.

**Dr. Roger F. Tomlinson**, It was Dr. Roger F. Tomlinson **who first coined the term geographic information system (GIS)**. He created the first computerized geographic information system in the 1960s while working for the **Canadian government**—a geographic database still used today by municipalities across Canada for land planning.

Traditionally, there are two broad methods used to store data in a GIS for both kinds of abstractions mapping references: raster images and vector. Points, lines, and polygons represent vector data of mapped location attribute references.

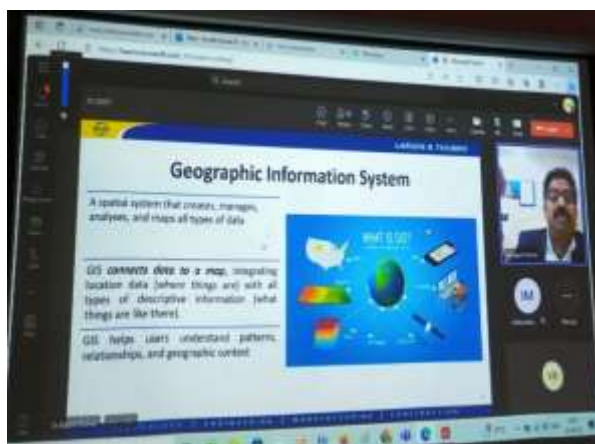
India has long been a leader in using modern spatial technologies and started its tryst with satellite images and GIS in the 1980s by having its own Indian Remote Sensing satellites and image-based mapping and creating GIS databases and applications.



**Fig (xi):** Resource person shared his experience in L & T Construction



**Fig (xi):** Resource person delivered his lecture on Geospatial Technology



**Fig(xii) :** Resource person delivered his lecture on Geographic information system



**Fig(xiii) :** Resource person delivered his lecture on Remote sensing

### Outcome of the Webinar:

1. The participants were able to understand the importance of Geospatial technology, GPS.
2. The Participants got a brief introduction about the Construction practices happening in L & T, Chennai.
3. The participants were able to know, various opportunities available for UG & PG Students in Civil @ L& T Construction.
4. The response and feedback were good, and the participants made the session more interactive by asking questions towards the resource persons on the topics discussed and also on their own topic of interest. They also requested similar seminars in the near future.

**Vote of Thanks:** Program Co-ordinator Mr.Vinothkumar.R ended the session with thanking the MITS Management and Higher Officials for the opportunity given and also thanked the Resource Person for accepting the Invitation and for his valuable Guest lecture.



Fig(xiv):Program Co-ordinator, Mr.Vinothkumar.R ended the Session by delivering Vote of Thanks.



Fig(xv): Group Photo with Civil Students

The participation certificates were issued to all the participants through the Entrepreneurship Development Cell, MITS. Dr.Prem Knowles, Head, ED-cell appreciated the faculty and student coordinators for organizing the event successfully.