



A Quarterly Publication of  
Department of Civil Engineering

Volume IV, Issue 2, 2021



**Civil Engineering  
Students at IIMT  
creating "Best out  
of Plastic Waste"**

## Latest Trends in Technology 2022

Without the existence of Civil Engineering, society wouldn't function properly. There would be no treated water to drink, no safe buildings and structures, no transportation infrastructure for travelling and no drainage and irrigation channel. Civil Engineering innovations have their **greatest impacts on the quality of human lives**. Buildings are the largest contributors to greenhouse gases. Civil Engineers make powerful buildings and other pivotal facilities which can make our life great. **Photovoltaic Glaze, Kinetic Roads, Self-healing Concrete, Kinetic Footfall, Thermal Bridging, 3D Modelling, Modular Construction, Asset Mapping, Internet of Things, and Drones** are some of the latest technologies recently introduced in construction for Civil Engineering.

### THE FOLLOWING ARE THE ADVANCED RESEARCH HAPPENING WORLDWIDE IN CIVIL ENGINEERING

**Artificial Intelligence and Internet of Things (IoT) in Civil Engineering**

**Durability Prediction Method of Concrete Soil, Based on Deep Belief Network**

**Study on the Applicability of Elastic Recovery (Resilience) Experiment for Asphalt-Rubber**

**Study on Aerodynamic Nonlinear Characteristics of Semiclosed Box Deck Based on Variation of Motion Parameters**

**The Study on the Substrate Effect in the Nanoindentation Experiment of the Hybrid Material**

**The Modelling of Digital Twins Technology in the Construction Process of Prefabricated Buildings**

## From Editor's Desk



**Dear Readers,**

As the editor of Nirmaan, a Civil engineering department quarterly newsletter, I would like to start by conveying my regard to all the team members of editorial board and faculties who supported me for making this happen. This special edition is reflection of Departmental activities– the achievements, the spirit of all the students and teachers, fantasies and goals, experiences and everything that is a part of the B.Tech in Civil Engineering course. It includes curricular, co-curricular or extra– curricular activities during this semester due to Covid-19 Pandemic.

The Department of Civil Engineering, established in 2009 having an intake of 150 seats, offers B.Tech course. The department emphasizes a deep understanding of fundamental principles and knowledge of Theory of Structures , Geotechnical Engineering , Transportation Engineering, Water Resources Engineering and Environmental Engineering .,

I congratulate the entire civil engineering department faculties, staff and students for their contribution to department activities and look forward for future developments. Heartiest congratulations to the Editorial Board .

**Tabassum Abbasi**

**Chief Editor & HOD Dept. of ECE**



# NATIONAL CONFERENCE ON NEW HORIZONS IN SCIENCE, ENGINEERING, MANAGEMENT & HUMANITIES



**Hon'ble Director , IIMT College of Engineering presenting Tulsi Plant to Chief Guest of the Event .**

## National Conference organized by civil,Mech, MBA and Applied Science.

National Conference was organized on 22<sup>nd</sup> Dec 2021 by Civil Engineering Dept . In this conference total 109 papers were received out of which 71 were shortlisted for presentation. Papers were presented both in online and offline . The paper was published in peer reviewed Journals , UGC-CARE List Group II - WEB OF SCIENCE INDEXED JOURNAL, and few papers in UGC-CARE List Group II : Scopus Journal. The conference proceedings were published with ISBN number . DG sir and Director sir supported and guided this event to make it a great success .The chief guest Shri Ashish kumar singh DGM Yamuna Authority(Civil Engineering Dept.) and and Dr.Vinay ; Dept of medicine (Moulana Azad New delhi) also graced the occasion .

**Aim & Objective of the Conference**  
 The conference is aimed to bring together innovative academics and industrial experts in the field of Science, Engineering, Management and Humanities to a common forum.  
 National conference on Recent Innovations in Science, Engineering and Technology addresses the rapid strides and technological advancements currently witnessed in the fields of Science, Engineering and Technology.  
 The conference aspires to exhibit the technical excellence of budding technocrats, research scholars, representatives from the academia and industry.  
**About the College**  
 The IIMT Group of colleges was founded in the year 1994. Since then the group has grown impressively and achieved exemplary recognition from corporate, academia, and professional circles. Top management college in Delhi NCR, Best MBA College In U.P., Best MCA College In U.P. At IIMT we are committed to provide a value driven culture along with creating a professional environment. The IIMT as a group is large and diversified group and imparts knowledge in field of Engineering, Management, Medical Sciences, Hotel Management, Nursing, Education, Law etc. The IIMT group has more than 1330 highly qualified and experienced faculty members in their respective functional areas. IIMT boasts of having more than 20,000 students in various courses in five campuses. The IIMT group has been dedicated towards providing quality professional education through well-accredited courses, seminars, conferences, guest lectures, industrial visits and excellent academic facilities.  
 At IIMT, we believe in all round development of students with strong foundation based on pillars of knowledge, intellect and values. The programs are structured to keep pace with the present dynamic and globalized scenario meeting the requirement of industry and education. We are dedicated to deliver excellence in our academic programs. The IIMT Group of colleges attracts students from all part of the country which is testimony to our experience and excellence in the field of professional studies. The IIMT Group has attained a highly respectable position amongst the best professional educational institutions in India.

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**NEW HORIZONS IN SCIENCE, ENGINEERING, MANAGEMENT AND HUMANITIES**  
**ORGANIZER:**  
**DEPARTMENT OF CIVIL, MECHANICAL, MBA, APPLIED SCIENCE**  
**IIMT College of Engineering Greater Noida (UP)**  
*[Approved by AICTE, New Delhi and Affiliated to the Board of Technical Education, Lucknow (UP)]*

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## IIMT COLLEGE OF ENGINEERING, GREATER NOIDA

### ROBOTICS CLUB

#### VISIT AT

### TIFAC CENTRE OF RELEVANCE AND EXCELLENCE GHAZIABAD



A one-day Visit at TIFAC CENTRE OF RELEVANCE AND EXCELLENCE- Ghaziabad organised by IIMT College of Engineering, Greater Noida under Robotics Club for all branches of IIMT College of Engineering by the Robotics Club Coordinator :Ms.Sheetal Nagar, Assistant Professor, Department of Electronics and Communication Engineering.



Total 50 students from CSE, ECE, AI and ME branches visited the centre. The motive of the Visit was to enhance the knowledge of Robotics and Automation in the students. The student coordinators were :Harsh Bhardwaj ( Electronics and Communication IV Year) and Chandankumar(Electronics and Communication III Year) and have put in a lot of hard work and dedication towards the successful conduction of this visit.



## SEMINAR ON HOW TO CRACK GATE AND OTHER EXAMS- 21/October/2021:

A seminar was successfully conducted in the Civil Engineering Department under IEI on the topic “How to crack GATE & other Competitive Exams”.



Organised by  
Civil Engineering Department

**Strategy to  
Crack GATE & other  
competitive exams**

Date : **21<sup>st</sup> Oct, 2021**  
Time : 11:00 AM - 12:50 PM

**Speaker:**  
**Mr. Jitendra Tiwari**  
Educationalist  
&  
National Memory Record Holder  
“**LIMCA BOOK OF RECORDS**”

- In & Out of GATE and other competitive exams.
- Various career opportunities.
- Productive utilisation of covid period for academics and competitive exams.
- Why & why not approach.
- How to face different phases of recruitment.



The speaker of this seminar was Mr. Jitendra Tiwari whose name is registered in LIMCA BOOK OF RECORDS as a national memory record holder. More than 50 students of B. Tech (Civil) took part in this seminar and learnt the strategy to crack Government jobs related to civil engineering. Seminar was ended with vote of thanks by Mr. Satyaveer Singh.

## “One day workshop on STAAD.Pro under ISTE”

A one day workshop on Staad Pro was successfully organized by Civil Engineering Department under ISTE in association with Bentley. This workshop was attended by the Civil and Mechanical engineering students of IIMT College of Engineering.



Shape My Skills  
TRAINING | DEVELOPMENT | PLACEMENT

**1 Day Workshop  
on  
STAAD.Pro  
with Bentley Certification**

Organized by  
**CIVIL DEPARTMENT**  
under ISTE

+91-8826635197  
Info@shapemyskills.in  
@Shapemyskills.in

Time  
**11:00 Am  
onwards**

Oct  
**22<sup>nd</sup>  
2021**

Bentley Institute  
Proud Sponsor Partner

Autodesk, Bentley, ISTE, Pearson, WhiteStar



The speakers of this workshop were Rohit Kumar and Jitesh Kumar from Bentley Company. Mrs. Tabassum Abbasi welcomed both the speakers. More than 70 students of civil and mechanical engineering department took part in this workshop and learned how to use Staad Pro .After completion of workshop, vote of thanks to the speakers was given by ISTE coordinator Mr. Satyaveer Singh. Certificates were provided to all students for attending the workshop.

### ROAD SHOW ON AWARENESS OF WOMEN ENTREPRENEURS

A road show on awareness of women entrepreneurs was successfully conducted by Civil Engineering Department. More than 20 girls students took part in this event. Mrs. Tabassum Abbasi and Dr. Amrita Pachauri lead this road show.

**INSTITUTION'S INNOVATION COUNCIL**  
Greater Noida

**IIMT**  
COLLEGE OF ENGINEERING  
Greater Noida  
— Aim For Excellence —

Department of Civil Engineering is Organising

## Road Show on Awareness of Women Entrepreneurs

Date: 18<sup>th</sup> Nov, 2021

PATRONS

**Dr. Amrita Pachauri**  
Students Counselor  
IIMT College of Engineering

**Mrs. Tabassum Abbasi**  
HOD  
Dept. of Civil Engineering

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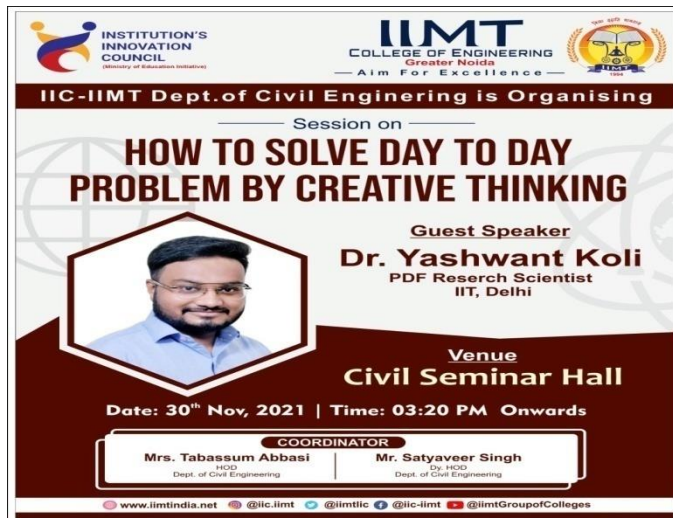
The road show was a grand success and a great motivation for female students of this College.



## SESSION ON HOW TO SOLVE A DAY-TO-DAY PROBLEM BY CREATIVE THINKING

A session on “How to solve day to day problem by Creative Thinking” was successfully organized by Civil Engineering Department under IIC.

The speaker of this session was Dr. Yaswant Koli, who is a PDF research scientist in Indian Institute of Technology (IIT) Delhi. Dy. Hod Mr. Satyaveer Singh welcomed the speaker in the session.



**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of Education, India)

**IIMT**  
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Greater Noida  
— Aim For Excellence —

**IIC-IIMT Dept. of Civil Engineering is Organising**

Session on  
**HOW TO SOLVE DAY TO DAY PROBLEM BY CREATIVE THINKING**

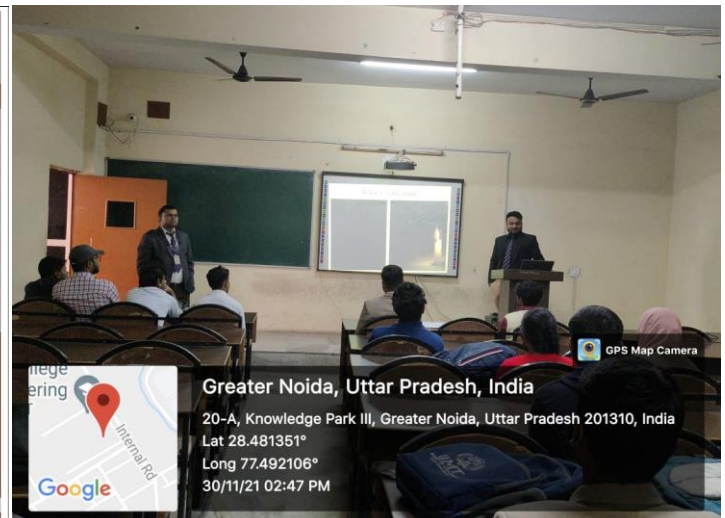
**Guest Speaker**  
**Dr. Yashwant Koli**  
PDF Reserch Scientist  
IIT, Delhi

**Venue**  
**Civil Seminar Hall**

**Date: 30<sup>th</sup> Nov, 2021 | Time: 03:20 PM Onwards**

**COORDINATOR**  
**Mrs. Tabassum Abbasi** (HOD, Dept. of Civil Engineering)  
**Mr. Satyaveer Singh** (Dy. HOD, Dept. of Civil Engineering)

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More than 20 students of Civil Engineering Department took part in this session and learned how to solve day to day problems arising in the field of civil engineering. After completion of session, vote of thanks to the speaker was given by Mrs. Tabassum Abbasi, Hod of Civil Engineering Department.

## Guest lecture on Environmental Awareness & Protection Delivered by Green man (Vinod singh Solanki)

A guest lecture on “**Environmental Awareness & Protection**” was successfully organized by Environmental club on 7<sup>th</sup> December 2021 at IIMT College of Engineering in Sarabhai Hall. The Green man, Mr. Vinod singh Solanki was the speaker of this guest lecture.

Environmental Coordinator Mr. Satyaveer Singh welcomed the speaker and Mr. Vinod Kumar Solanki shared his views on environmental awareness and protection. This lecture was attended by more than 150 students of IIMT College of Engineering. Civil department Faculty Mrs. Mona Khosla and Mrs. Tabassum Abbasi and Mr. Satyaveer singh played a key role in organizing this guest lecture.





**Chief Editor:**

Mrs .Tabassum Abbasi ,

**Co-Editors:**

Mr.Sanjeeva Narain Singh , (A.P.,CE Deptt.)

Mr.Satyaveer Singh,(A.P. , CE Deptt.)

**Student Editors:**

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Ms. Aditi Sdingh            -IV Year

Mr.Shivam Agarwal        CE-IV Year

