



## CIVIL ENGINEERING DEPARTMENT

# E - NEWSLETTER

## “ CIVILIANSIGHT ”

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### Message:

H.O.D, CIVIL ENGINEERING



Dear Friends,

Civil Engineering Department is imparting technical education since 1957 and progressively achieving its vision and mission. Modern methods of teaching and learning are adopted and more practical based activities are given importance to the students so that more job opportunities could be generated for the students.

### Editorial Team:

Prof. Archana Tiwari  
Dr. Prachi Singh  
Dr. Jayvant Choudhary  
Prof. Mohit Aggarwal

**Students Involved:**  
Himanshi Agrawal (B.Tech. 4<sup>th</sup> Year)

## VISION

To develop civil engineers of global standards with leadership skills to serve society.

## MISSION

1. To foster academic development by offering state-of-the-art technical education at U.G. and P.G. levels through advanced teaching learning methodologies and facilities.
2. To impart skills to the students for keeping pace with the advances in techniques and technologies.
3. To promote research activities in various fields of civil engineering and inter disciplinary areas.
4. To provide solutions in various domains of civil engineering for societal development.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1 The graduate of the program will have successful career in various domains of civil engineering.

PEO2 The graduate of the program will be able to practice civil engineering in infrastructure industries, public sector undertakings and as an entrepreneur.

PEO3 The graduate of the program will be able to pursue higher education for knowledge enhancement.

PEO 4 The graduate of the program will be able to exhibit leadership skills, team spirit and ethical practices.

## Departmental Achievement

- Six new faculty members have joined the department as Assistant Professor – **Dr. Prachi Singh, Dr. Jayvant Choudhary, Dr. Hemant Shrivastava, Dr. Chayan Gupta, Dr. Abhilash Shukla, and Ms. Renuka Darshyamkar.**
- Civil Engineering Department conducted Finishing School Program, 2021 (Online Internship) for Pre-Final year students of the Institute on Four Modules.
  - **Matrix Analysis of Structures** by Dr. Sanjay Tiwari & Dr. Pankaj Kumar
  - **Environmental Engineering Design of Sewage Treatment Plant** by Prof. Deepak Rastogi & Dr. Prachi Singh
  - **Field Outlook in Civil Engineering Projects** by Dr. Pratibha Singh & Prof. Mohit Aggarwal
  - **Structural Design of a Two Storey RC Building** by Dr. Hemant Shrivastava, Dr. Pankaj Kumar & Prof. Pranjul Rajput
- Civil Engineering department executed Consultancy and Material Testing Works aggregated to amount of INR 8,37,725/- during April-June 2021.

## FDP/STC/Workshop Attended by Faculty (Outside the Institute)

- **Dr. Rajeev Kansal** attended online National Workshop on Transformation through NAAC Assessment and Accreditation process” on 21 & 22 June 2021 held at Institute of Academic Excellence, Hyderabad.
- **Prof. Aditya Kumar Agarwal** attended online National Workshop on Transformation through NAAC Assessment and Accreditation process” on 21 & 22 June 2021 held at Institute of Academic Excellence, Hyderabad.
- Dr. Sanjay Tiwari attended two weeks online summer internship on “Structural Analysis & Design using ETABS” from 01-15th June, 2021 organised by the National Small Industries Corporation Ltd.
- Prof. Nupur Verma attended national webinar on "Green Materials for Construction - Way Forward" organized by UltraTech Cement Ltd. on 14 May 2021.

- **Dr. Sarvesh Kumar Jain** attended webinar on "Durability of concrete and its evaluation" organized by UltraTech Cement Ltd. on 08th May 2021.
- **Dr. Sarvesh Kumar Jain** has completed two weeks industrial training on “Structural design using STAAD PRO”, from 15th - 29th May, 2021, organised by the National Small Industries Corporation Ltd.
- **Dr. Sarvesh Kumar Jain** attended webinar on "Concrete for energy efficiency and comfort in buildings" organized by UltraTech Cement Ltd. on 26 June 2021.
- **Dr. Sarvesh Kumar Jain** attended webinar on "Variability and factors affecting the interpretation of concrete strength" organized by UltraTech Cement Ltd. on 12th June 2021.
- **Dr. Sarvesh Kumar Jain** attended webinar on "Onsite evaluation of concrete strength by CAPO test" organized by UltraTech Cement Ltd. on 19th June 2021.

## Faculty Publications

- Aditi Tiwari, **Manoj Kumar Trivedi** (2021), “Practical Non-dominated front solutions for Construction Projects”. Journal of The Institution of Engineers (India): Series A Springer.
- Mohan Bittharia, **Archana Tiwari, Nupur Verma**, "Design of Rooftop Rainwater Harvesting: A Case Study on Township in Gwalior", IJRASET, Vol 9, Issue 5, May 2021

## Activity Organized

- Civil Engineering Department along with Indian Water Works Association Gwalior Centre organized webinar on the occasion of “World Environment Day” on 5th June, 2021.

## Projects Undergoing

- **Dr. Manoj Trivedi** is undertaking a project on “Multi-objective optimization in construction projects using NSGA III (IRS TEQIP3)”.
- **Prof. Aditya Kumar Agarwal** is undertaking a project on “Development of rationalized Water Quality Index” (TEQIP – IRS).

## Faculty Publications

- Aditi Tiwari, **Manoj Kumar Trivedi** (2021), “Practical Non-dominated front solutions for Construction Projects”. Journal of The Institution of Engineers (India): Series A Springer.
- Mohan Bittharia, **Archana Tiwari, Nupur Verma**, "Design of Rooftop Rainwater Harvesting: A Case Study on Township in Gwalior", IJRASET, Vol 9, Issue 5, May 2021
- **Gautam Bhadoriya**, “Ranking, Allocation and Response of Risk Factors of Hybrid Annuity Model for Highway Construction Projects”. ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429 Volume 9 Issue IV Apr 2021

## Expert Talk Delivered

- **Prof. Deepak Rastogi** has delivered an expert talk on topics “Ecosystem restoration” and “Water consumption” in the webinar organized by Civil Engineering Department, MITS and Indian Water Works Association Gwalior Centre on the occasion of “World Environment Day” on 5th June, 2021.

## NPTEL/ATAL/COURSERA/INTERNSHALA Courses Attended by Faculty

- **Dr. Sarvesh Kumar Jain** has attended NPTEL online course titled “Safety in Construction” from 15th February 2021 to 05th April 2021.

## Students Achievement

- **Mohini Sharma** B.Tech 3rd Year organized online poetry competition “NaPoWriMo 2021” under literary club Querencia.
- **Saksham Singh Chauhan** B.Tech 1st Year co-organized a “Robotics Workshop” conducted by digital learning group, MITS.
- **Nipurn Runij** B.Tech 3rd Year worked with one of the leading startups “FRONTGROW” as product and growth manager.
- **Rajan Pandey** B.Tech 3rd Year published a research paper titled “Study of finite slopes stability variations in different soils using Finite Element Analysis based software”
- **Rajan Pandey** B.Tech 3rd Year has participated in the online course on “Geoinformatics for disaster management” conducted by IIRS-ISRO from 5th-16th April, 2021.
- **Priyam Shivhare** B.Tech 3rd Year has participated in the online course on “Geoinformatics for disaster management” conducted by IIRS-ISRO from 5th-16th April, 2021.
- **Abhinav Singh** Kharoliya B.Tech 2nd Year has participated in the online course on “Geoinformatics for disaster management” conducted by IIRS-ISRO from 5th-16th April, 2021.
- **Mohit Singh** B.Tech 2nd Year organized a “Robotics Design in Fusion 360” under digital learning group, MITS.

## Miscellaneous

- **Dr. R.K. Kansal** reviewed a research paper titled “A Framework to Evaluate Safety Performance using UACS Equation in Construction Sites” for International Journal of Construction Management (Taylor & Francis Publication) in April 2021.
- **Dr. Sanjay Tiwari** reviewed a research paper titled “Effect of Damage Limit States on the Seismic Fragility of Reinforced Concrete Dual System Buildings” for Journal of Institution of Engineers (India): Series A (Springer Nature) in June 2021.