



## TULSIRAMJIGAIKWAD-PATIL College of Engineering and Technology

Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institute Affiliated to RTM Nagpur University)



### Department of Civil Engineering

#### News Letter

2022-23

### Civil Engineering Department Celebrated Engineers' Day 2022, followed by Guest Lecture under ARTEX Forum in association with Institution of Engineers (India) Students' Chapter

**September 17th:** Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, (An Autonomous Institute) Nagpur celebrated Engineers' Day 2022 followed by Guest Lecture by the invited Chief Guest for the event Dr. Srikant Annavarapu, Director, Master Geotech Services Pvt. Ltd., Nagpur. The expert has highlighted the role of engineers in nation buildings, infrastructure development and taking the leadership towards achieving sustainable development goals.

He also motivated the students to take final year project as a challenge to solve real life practical problems. The targeted objectives of the project should be to provide efficient solutions to the problems of society with locally available resources.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPPI, Dr. A. V. Kale, Principal, Prof. Pragati Patil, Vice-Principal, appreciated the faculty members for their inspirational work done and congratulated the students for active participation in the Guest Lecture as well as for the successful completion of the program. Efforts taken by Prof. Aasif Baig, Head of Civil Engineering Department, Prof. Panna Lal Kurmi, Program Coordinator, Prof. Divyani Harpal, Prof. Sanjay Bhadke, Prof. Amey Khedikar, Prof. Mohitsingh Katoch, Prof. Priyanka Petkar; proved instrumental in conducting the program successfully. Prof. Divyani Harpal did anchoring for the program successfully. All faculty members & students of TGPCET attended Guest Lecture prominently.





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**Department of Civil Engineering**

## **News Letter**

**2022-23**

### **Department of Civil Engineering under ARTEX Forum in association with IEI, ISTE and ICI have organized an Expert Lecture Building Information Modeling (BIM)**

**September 19<sup>th</sup>:** Er. Sarang Pimpalkar, Sr. Technical Manager, Admire Tech Vision Pvt. Ltd., Nagpur delivered a detail lecture on Building Information Modeling (BIM) Techniques. He gave lecture about how BIM is used to create a virtual version of a building or real estate project to enable the various stakeholders to collaborate effectively. The various jobs - architects, engineers, entrepreneurs and others - can coordinate their efforts and communicate in real time through BIM. A true digital twin, the

Building Information Model aims to support the real estate project from its creation to its destruction. In practical terms, a BIM is most often presented in the form of software to model the real estate project in two and three dimensions. Different stakeholders have access to the BIM and can navigate the building to experiment or verify certain ideas. He also addresses the job opportunities for the under graduate students in the field of BIM techniques.





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**Department of Civil Engineering**

## **News Letter**

**2022-23**

### **Civil Engineering Department organized a Site visit to CSIR-NEERI campus, Nagpur on the occasion of 81<sup>st</sup> CSIR Foundation Day (26.09.2022).**

**September 27<sup>th</sup>:** Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur (An Autonomous Institute), on the occasion of 81<sup>st</sup> CSIR Foundation Day, 26<sup>th</sup> September 2022 (Monday); organized an educational Site visit to CSIR-NEERI campus, Nagpur.

Divisions (including Labs) which were visited by the students includes: (1) Air Pollution Control division (2) Energy & Resource Management division (3) Technology Park: Waste water division (4) Water Technology & Management division (5) Environmental Virology Cell (6) Environmental Biotechnology & Genomics division (7) Harit Sangrahalaya. Senior scientists from these divisions like Mr. Rahul Vyawahare, Dr. Krishna Khainar & others enlightened the students about various low-cost, eco-friendly, past and ongoing projects of CSIR-NEERI. They also explained in detail about the working principles and careful handling of State-of-the-art lab equipment's

Mr. Prakash Kumbhare elaborated the history, working & successful endeavours of CSIR-NEERI at the Harit Sangrahalaya. He also motivated the students to think about becoming researchers & scientists; and explained the ways through which they can be a part of CSIR-NEERI in future. Total 55 students took advantage of this informative visit which was successfully coordinated by Prof. Gayatri Badole & Prof. Mohitsingh Katoch.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. A. V. Kale, Principal, Prof. Pragati Patil, Vice-Principal and Prof. Anup Gade, Dean (Academics) appreciated the faculty members for their efforts and congratulated the students for active participation in this Site visit. Efforts taken by Prof. Aasif Baig, Head of Civil Engineering Department, Prof. Amey Khedikar, Prof. Sanjay Bhadke, Prof. Priyanka Petkar, Prof. Divyani Harpal, Prof. Panna Lal Kurmi, Prof. Pravin Shahare proved instrumental.







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### Department of Civil Engineering

#### News Letter

2022-23

### Civil Engineering Department organized “Two-Day Workshop on Introduction to Professional Practices in RCC Construction” in association with IEL, ICI, ISTE Students’ Chapter

**September 30<sup>th</sup>:** Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur (An Autonomous Institute) under ARTEX Forum in association with IEL, ICI, ISTE has organized “Two-Day Workshop on Introduction to Professional Practices in RCC Construction” by Dr. S. K. Mahajan, Director, Struct-e-Solutions, Nagpur on 29-30 September, 2022. Dr. S. K. Mahajan has conducted workshop for Civil Engineering UG students. He has connected the analysis and design courses studied during graduation limited to syllabus with the professional practices followed in actual RCC construction sites. He has covered industrial practices followed for analysis, design, detailing, and construction of RCC slabs, beam, column, and foundation. Construction industry challenges in rebar detailing, and arrangement in structural elements has been discussed in detail during the workshop, followed by hands-on session with

workbook designed by Dr. S. K. Mahajan. Dr. Mahajan also took a session on review of structural drawing of on-site projects.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. A. V. Kale, Principal, Prof. Pragati Patil, Vice-Principal, Prof. Anup Gade, Dean Academics has appreciated the faculty members for their efforts, and congratulated students for active participation in the two-day workshop. Efforts taken by Prof. Aasif Baig, Head of Civil Engineering Department, Prof. Panna Lal Kurmi, Program Coordinator, Prof. Amey Khedikar, Prof. Sanjay Bhadke, Prof. Divyani Harpal, Prof. Mohitsingh Katoch, Prof. Priyanka Petkar, and Prof. Pravin Sahare proved instrumental in conducting the workshop successfully. All faculty members & students of Civil Engineering Dept. attended the workshop prominently.





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### Department of Civil Engineering

#### News Letter

2022-23

### **Civil Engineering Department organized Expert Lecture on “Structural Analysis, Design and Detailing of G+5 Apartment using Tekla Structural Design Software” in association with IEI, ICI, ISTE Students’ Chapter**

**September 30<sup>th</sup>:** Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur (An Autonomous Institute) under ARTEX Forum in association with IEI, ICI, ISTE has organized “Structural Analysis, Design and Detailing of G+5 Apartment using Tekla Structural Design Software” by Er. Atul K. Agade, Sr. Cadd faculty at Cadd Centre, Nagpur on 13th October, 2022. He has delivered an interesting lecture on BIM integration, Analysis, Design and detailing fundamentals of RC frame buildings, rebar scheduling using Tekla Software solutions. He has also discussed scope for graduate students in the field of Civil Engineering Software Solutions, and opportunities for graduate engineer to build career as structural designer.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. A. V. Kale, Principal, Prof. Pragati Patil, Vice-Principal, Prof. Anup Gade, Dean Academics has appreciated the faculty members for their efforts, and congratulated students for active participation in the expert lecture. Efforts taken by Prof. Aasif Baig, Head of Civil Engineering Department, Prof. Panna Lal Kurmi, Program Coordinator, Prof. Amey Khedikar, Prof. Sanjay Bhadke, Prof. Divyani Harpal, Prof. Mohitsingh Katoch, Prof. Priyanka Petkar, and Prof. Pravin Sahare proved instrumental in conducting the workshop successfully. All faculty members & students of Civil Engineering Dept. attended the workshop prominently.





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### Department of Civil Engineering

#### News Letter

2022-23

### Civil Engineering Department organized “an Expert Lecture on Recent Technologies in Waste Water Treatment with special emphasis on Moving Bed Bio Reactor (MBBR) Technology” in association with IEL, ICI, ISTE Students Chapter

**November 22<sup>nd</sup>:** Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur (An Autonomous Institute) under ARTEX Forum in association with IEL, ICI, ISTE has organized an Expert Lecture on “**Recent Technologies in Waste Water Treatment with special emphasis on Moving Bed Bio Reactor (MBBR) Technology**” by **Dr. O. N. Mukherjee** Director, M/s O N Mukherjee Engineering Consultant, Nagpur on 22.11.2022. Dr. O. N. Mukherjee has conducted expert lecture for Civil Engineering UG students. . He has discussed about the scenario of Indian rivers. And explained the Waste Water Treatment with special emphasis on Moving Bed Bio Reactor (MBBR) Technology. He has also discussed scope for graduate students in the field of Civil Engineering Software Solutions, and opportunities for graduate

engineer. He has covered industrial practices followed for waste water treatment.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. A. V. Kale, Principal, Prof. Pragati Patil, Vice-Principal has appreciated the faculty members for their efforts and congratulated students for active participation in expert lecture. Efforts taken by Prof. Aasif Baig, Head of Civil Engineering Department, Prof. Pravin A Sahare, Program Coordinator, Prof. Amey Khedikar, Prof. Sanjay Bhadke, Prof. Divyani Harpal, Prof. MohitsinghKatoch, Prof. Priyanka Petkar, and Prof. Panna lal Kurmi, Prof. Nayana Sangole, Prof. Gayatri Badole proved instrumental in conducting the expert lecture successfully. All faculty members & students of Civil Engineering Dept. attended the expert lecture prominently.







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### Department of Civil Engineering

#### News Letter 2022-23

### AICTE sponsored 9th International Conference on "Disruptive Technology for achieving Sustainable Development Goals"(IC-DTSDG-22)

**December 22<sup>nd</sup> & 23<sup>rd</sup>:** In the Civil Engineering Track, the paper presentations were conducted in two sessions. On first day (22-12-2022), the keynote address was given by Dr. Nagaraj Sitaram, Head of Civil Engineering department, East Point College of Engineering, Bangalore "Adoption of Innovative Technologies for achieving Sustainable Construction goals". On second day (23-12-2022), the keynote address was given by Dr Shirish Deo, from NIT Raipur "Internal curing of concrete from basics to advanced"

**Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. G. K Awari, AICTE Margdarshak and Head (Automobile Engineering) Govt. Polytechnic**

**Nagpur, Dr. A. V. Kale, Principal TGPCET, Dr. Prashant Kadu, Convenor, Prof. Pragati Patil, Vice-Principal and co-Convenor,** appreciated the faculty members for their inspirational work done and congratulated the participants for active participation in these two days International Conference as well as for the successful conduction and completion of this Conference. Efforts taken by Prof. Aasif Baig, Head of Department Civil Engineering, Prof. Mohitsingh Katoch, Coordinator (Civil Engineering, Prof. Sanjay Bhadke, Prof. Amey Khedikar, Prof. Priyanka Petkar, Prof. Divyani Harpal, Prof. Nayana Sangole and Prof. Gayatri Badole, proved instrumental in conducting the conference in Civil Engineering Track successfully.





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### Department of Civil Engineering

#### News Letter 2022-23

### Civil Engineering Department organized a Site visit to RMC Plant, Nuvoco Vistas Corp.Ltd. Nagpur (02.02.2023).

**February 2<sup>nd</sup>:** Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur (An Autonomous Institute), on date 2<sup>nd</sup> February 2023(Thursday); organized an Industrial Site visit to RMC Plant, Nuvoco Vistas Corp. Ltd. Nagpur.

In Visit, Mr. Ramakrishna Sige (Plant Manager) explained in detail about procedure and operation of Ready mix concrete plant. He also explained work flow and safety measures carried out while preparation of concrete mix. Students learned about concrete mixing by weigh batching and procedure to transfer Ready Mix Concrete from one place to another.

Students learned about various laboratories testing on concrete also various instruments were available for testing of fresh and hardened concrete. They also learned about which

admixtures, Plasticizers, Super plasticizers and Retarders are used in Ready Mix Concrete.

Total 53 students took advantage of this informative visit which was successfully coordinated by Prof. Nayana Sangole & Prof. Divyani Harpal.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. A. V. Kale, Principal, Prof. Pragati Patil, Vice-Principal and Prof. Anup Gade, Dean (Academics) appreciated the faculty members for their efforts and congratulated the students for active participation in this Site visit. Efforts taken by Prof. Aasif Baig, Head of Civil Engineering Department, Prof. Nayana Sangole, Prof. Divyani Harpal, Prof. Amey Khedikar, Prof. Sanjay Bhadke, Prof. Priyanka Petkar, Prof. Gayatri Badole proved instrumental.







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### Department of Civil Engineering

#### News Letter 2022-23

### **"Late Dr. P. R. Bhave Memorial lecture series" at Indian Water Works Association (IWWA), Nagpur center, Shankar nagar, Nagpur**

**February 20<sup>th</sup>:** Dr. O.N. Mukherjee, Vice Chairman of IWWA Nagpur center and Coordinator of the program "**Late Dr. P. R. Bhave Memorial lecture series**" began the proceedings by introducing all the respected dignitaries and key persons. Mr. Rajesh Gupta organizer of this lecture series shared his past experiences with Late Dr. P. R. Bhave and his important contributions in the field of Engineering and RTMNU syllabus updating by introducing new subjects like Water Resources Engineering, etc.

Following 2 lectures were scheduled for the evening:

- 1) "India's Policy on Achieving 24x7 Water Supply" by Dr. M. Dhinadhayalan, Advisor (PHEE), CPHEEO, Ministry of Housing and Urban Affairs, New Delhi
- 2) "Modified Guidelines for Achieving 24x7 Water Supply" by Dr. S. V. Dahasahasra, Member, National Task Force of 24x7 Water supply scheme and Member of Expert Committee, Water Manual, MoHUA.

In the 1<sup>st</sup> lecture "India's Policy on Achieving 24x7 Water Supply", Dr. M. Dhinadhayalan explained about

- Water Stressed countries by 2040
- GoI Performance Indicators & Benchmarks for water supply
- Major Challenges in Urban Water Supply

systems

- Advantages of 24x7 water supply system
- GoI AMRUT initiatives
- Mandate of 500 cities under AMRUT 2.0
- National Urban Water Supply Management (NUWSM) policy
- Public-Private Partnership (PPP) Guidelines on 24x7 water supply system
- Constitution of National Task Force on 24x7 water supply system
- Achievements of GoI initiatives so far, and
- Future plans for a brighter way forward

In the 2<sup>nd</sup> lecture " Modified Guidelines for Achieving 24x7 Water Supply ", Dr. S. V. Dahasahasra explained about

- History of 24x7 water supply system in India
- Water demands
- National Water Missions
- Building blocks of 24x7 water supply system
- Guidelines for 24x7 water supply system under AMRUT 2.0 Program
- Hydraulic Model-Tool for 24x7 system
- Fixing boundary of Operational Zones
- DMA & Sub DMAs
- Equalization of Flow
- Design parameters, and
- SCADA & Digital Twin



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### Department of Civil Engineering

#### News Letter 2022-23

**February 20<sup>th</sup>:** Er. Subhash Bhujbal, President of Indian Water Works Association (IWWA), Mumbai gave the concluding remarks. Dr. Kalpana S. Bhole, Hon. Secretary of IWWA Nagpur center proposed vote of thanks. The benefit of this lecture series conducted on

20.02.2023 from 7:00pm to 10:00pm was taken by 13 students and 1 faculty member from the Department of Civil Engineering, TGPCET. Prof. Mohitsingh Katoch, Faculty Advisor of IWWA Student's Chapter coordinated the entire visit.







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### Department of Civil Engineering

#### News Letter 2022-23

#### Guest Lecture: Career Guidance in Civil Engineering Softwares

**March 2<sup>nd</sup>:** Ms. Priyanka Kawale (Alumni of the Dept. 2016 Batch) & Ms. Anjali Khote, Software Trainer & Design Engineer along with Mr. Omesh Athar from Astral Informatics (P) Ltd. Nagpur, guided the students regarding application & usage

of softwares like Revit, E-Tabs, Primavera, Navisworks-3D etc. in the field of Civil Engineering. They also shared some of their 3D design works done for Nagpur & Pune Metro. Total 69 students were present.





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### Department of Civil Engineering

#### News Letter 2022-23

### ARTEX forum Reinstallation, IWWA student chapter establishment, Felicitation of Toppers and Guest Lecture

**March 3<sup>rd</sup>:** The event started with the welcome of the Chief Guest Dr. O. N. Mukherjee, Vice Chairman of IWWA Nagpur Centre and Guest of Honour Dr. Isha Khedikar, Joint Secretary of IWWA Nagpur Centre by the hands of Prof. Sanjay Bhadke and Dr. Amey Khedikar. Opening remark was given by Prof. Aasif Baig, Head of Civil Engineering Department. Forum badges were distributed to the elected members of the ARTEX Student forum body by the hands of the dignitaries. Student president of the ARTEX

Forum Mr. Sanket Nagulwar gave his presidential speech. Felicitation of University exam topper students was followed by Establishment of Indian Water Works Association (IWWA) Student Chapter by the hands of Chief Guest and Guest of Honour. After this the Chief Guest and Guest of Honour addressed the gathering. Dr. O.N. Mukherjee gave a lecture on topic "Scope of Civil engineer in water engineering".







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#### News Letter 2022-23

#### Site Visit: Gosikhurd Dam, (Wahi) Pauni

**March 18<sup>th</sup>:** Department of Civil Engineering organized Site Visit at Gosikhurd Dam, Wahi (Pauni), district Bhandara on dated 18.03.2023. Mr. D. R. Patil (Junior Engineer), Ms. Sarita Harne (AE-II) and Shri. N. N. Thakare (CEA), Office-Assistant Engineer Gr-I, Gosikhurd were present during the visit to guide the students. They explained how 33 (Radial) spillway gates are being used to regulate water flow into the river for irrigation throughout the year. They also explained about the 2 Gantry Goliath Cranes for gate maintenance, Reservoir Operation Schedule (R.O.S), Gate Operation Schedule (G.O.S), Catchment area and other purposes for which the dam water is utilized viz. hydroelectricity generation from Gosikhurd Hydel scheme of Mahati Hydro power plant (24MW installed

capacity), irrigated land area by left bank canal of length 23 kms. and right bank canal of 99 kms. The visit was an excellent opportunity for the students to gain practical knowledge and application of various concept and theories that students learned in classes. The Industrial Visit helped in mapping of following program outcomes for the subjects Irrigation Engineering (8<sup>th</sup> Sem), Environmental Engineering (4<sup>th</sup> Sem) and Water Resources Engineering (6<sup>th</sup> Sem) : PO-1, PO-2, PO-3, PO-4, PO-5, PO7, PO-10, PO-11, PO-12, PSO-1, PSO-2 and PSO-3.

Total 56 students took advantage of this informative visit which was successfully coordinated by Prof. Nayana Sangole & Prof. Mohitsingh Katoch.





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**Department of Civil Engineering**

**News Letter 2022-23**

**"World Water Day-2023 celebration" at Indian Water Works Association (IWWA),  
Nagpur Local Centre**

**March 23<sup>rd</sup>:** Dr. R. V. Ralegaonkar, coordinator of the program **"World Water Day-2023 celebration"** introduced the dignitaries present on the dais. Er. N. M. Bangre, Chairman of IWWA Nagpur Centre gave the introductory remarks. Dr. O.N. Mukherjee, Vice Chairman of IWWA Nagpur Centre began the proceedings by giving a brief introduction of the expert.

Dr. Atul Vaidya started his lecture on topic **"Accelerating change in Water and Wastewater Management"** and gave an overview of various technologies available for treatment of water and wastewater. He also discussed various challenges in improving the quality of water and wastewater. Various IWWA award winners and Presidents of IWWA Student Chapters of various engineering colleges like VNIT, GCoE Nagpur, TGPCET, RKNEC, GHRCE, KDKCE and WCEM were felicitated on

this occasion. Ms. Vaishanavi Kamde received the award by the hands of Dr. Atul Vaidya on behalf of Civil Engineering Department, TGPCET. Total 80 members (General & Student) attended the programme. Prominent among those who attended the lecture included Mr. Rajesh Gupta, Dr. V.A. Mhaskar, Dr. Girish Pophali, Dr. Pawan Labsetwar, Dr. R. Borkar, Dr. Isha Khedikar, Mr. P.K. Jain, Ms. Snehal Abhayankar, Mr. S.S. Hastak and Mr. Anubhuti Agarwal. Dr. Kalpana S. Bhole, Hon. Secretary of IWWA Nagpur center proposed the vote of thanks.

The benefit of this lecture conducted on 23.03.2023 from 7:00pm to 9:00pm was taken by 15 students and 1 faculty member from the Department of Civil Engineering, TGPCET. Prof. Mohitsingh Katoch, Faculty Advisor of IWWA Student's Chapter coordinated the entire visit.







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### Department of Civil Engineering

#### News Letter 2022-23 Parents Teacher Conclave (PTC)

**March 25<sup>th</sup>:** The Parent Teacher Conclave for Civil Engineering students was scheduled on 25-03-2023 to discuss about Department activities, student progress and performance. The meeting was conducted at HoD Cabin from 11.00 AM to 4.00 PM. Meeting started with welcome of parents followed by departmental presentation, address by HOD, Parents interaction with faculty of individual course and Vote of Thanks. Parents also visited College classes and laboratories after parents meet.

The meeting was held in order to discuss the performance of students with their parents. Also

feedback regarding their studies, health and performance were discussed with their parents. In this meeting the course and parents discussed about the area through which they improve their wards for the best result. The progress report i.e marks of CT-1 and CT-2 Examination was shown to them and the teachers had noted the suggestions given by parents. The PTC came to an end with the conclusion that the progress of the students depends on the joint effort, mutual understanding & co-operation of parents and Faculties.





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#### News Letter 2022-23

#### Site Visit: VMIT campus Nagpur

**March 29<sup>th</sup>:** Department of Civil engineering organized a site visit at VMIT campus, Nagpur on dated 29.03.2023. Mr. Sachin Wargantiwar (M.Sc. Tech. FGGS) ground water consultant at **Om ground water consultant** was present during the site visit. He explained the different types of rocks, porous and non-porous, topography of different features, various types of instrument used for finding out ground water resources, techniques of rain water harvesting of recharging ground water.

The visit was an excellent opportunity to gain practical knowledge and application of various concept. Site visit helped in mapping of following program outcomes for the subjects like Engineering Geology, Irrigation Engineering and Surveying PO-1, PO- 2, PO-3, PO-5, PO-7, PO-10, PO-11, PO-12 and PSO-1, PSO-2, PSO-3.

Total 22 students took advantage of this informative visit which was successfully coordinated by Prof. Priyanka Petkar.







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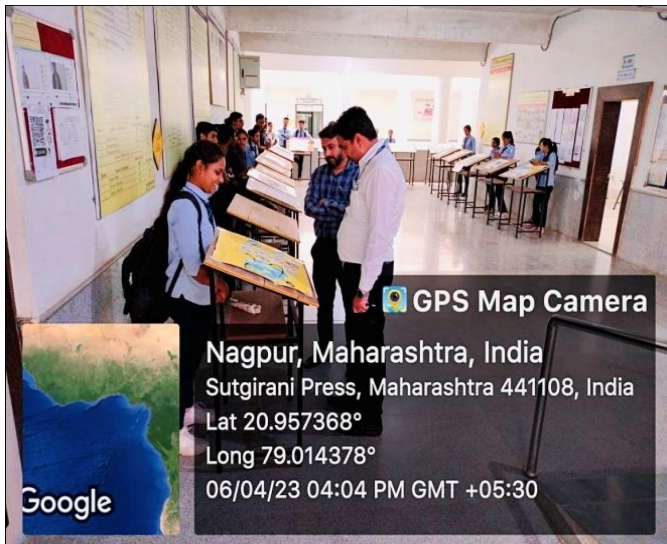
### Department of Civil Engineering

#### News Letter 2022-23

#### Event: On "World Health Day, Poster Making Competition"

**April 4<sup>th</sup>:** The Competition is organized on 06 April 2023 in Civil Engineering Department. The program was graced by Prof. Anup Gade, Dean Academics, Prof. Ritesh Banpurkar, Dean IQAC, and Prof. Aasif M. Baig, HoD OF Civil Engineering Department, TGPCET. More than 30 Students participated in the Competition. The

poster included many topics like "Healthy environment, Healthy People", "Mental health matters", "investing in health investing in the future", "COVID 19 overcoming the pandemic together" etc.... The Competition was coordinated by Prof. Divyani Harpal.







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#### News Letter 2022-23

#### Site Visit: Maha-Metro Bhawan Nagpur

**April 28<sup>th</sup>:** Department of Civil Engineering organized Site Visit at Maha-Metro Bhawan Nagpur on dated 28.04.2023. In Visit Mr. Akhilesh Halve, DGM (CC) In Maha-Metro Rail corporation Nagpur and Miss. Rashmi Madankar were present during the site visit. They also explained work flow and the all information of Maha-Metro metro bhawan and various technologies used in construction of Maha-Metro Rail's. The Nagpur maha metro is one of the finest infrastructure registered in Guinness book world

record. They explained about Topography, techniques of rain water harvesting and various technologies used in metro. Students learned about various Models of maha metro rail observed. The visit was an excellent opportunity to gain technical knowledge and application of various concept. Total 43 students took advantage of this informative visit which was successfully coordinated by Prof Gayatri Badole & Prof. Nayana Sangole.





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## Department of Civil Engineering

### News Letter 2022-23

#### Event: One Week Online Faculty Development Programme on

#### “Recent Advancement in Composite Materials and Structures”

(08/05/2023 to 13/05/2023)

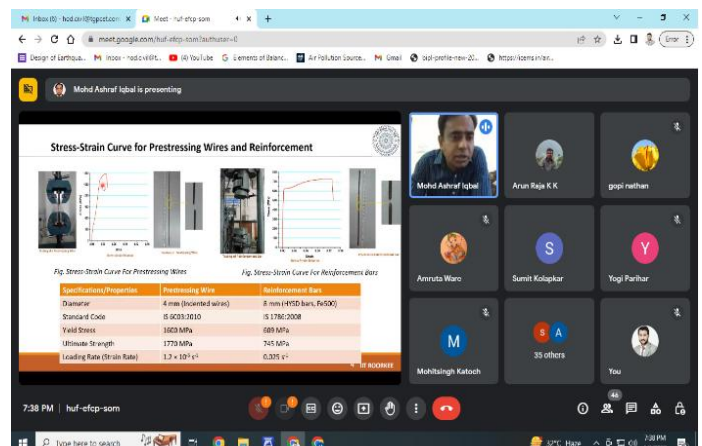
**May8<sup>th</sup> to 13<sup>th</sup>:** Department of Civil Engineering and Aeronautical Engineering in association with The Institution of Engineers (India), Nagpur and Indian Society for Technical Education (ISTE) jointly organized a One Week Online Faculty Development Programme (FDP) on “Recent Advancement in Composite Materials and Structures” from 08-05-2023 to 13-05-2023.

- The participants came to understand that the recent advances in composite materials which includes development of new fiber materials, new resins and new manufacturing techniques have made them even more attractive for use

in a variety of applications including aerospace, automotive and construction industry.

- The participants also understood that the use of composite materials has a number of advantages over traditional materials, including

- Light weight
- Increased strength
- Improved durability
- Reduced maintenance costs







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### Department of Civil Engineering

#### News Letter 2022-23

#### Alumni Guest Lecture: Construction Engineering and Management

**June 7<sup>th</sup>:** Department of Civil Engineering under ARTEX Forum in association with Alumni Association, TGPCET have organized an Alumni Guest Lecture by Mr. Kaustubh Jichkar (Alumni of Batch 2013-14), Senior Project Assistant, CSIR-NEERI Nagpur, on occasion of World Environment Day-2023 conducted an Alumni Guest Lecture on topic "Construction Engineering and Management". He guided the students regarding Operational Framework related to his following past projects:

1. Sambhaji Lake rejuvenation, Solapur
2. Delhi Jal Board (DJB) 108 water body rejuvenation
3. BUDCO (Bihar) – NMCG Namami Gange Project
4. Kondhali Irrigation canal pollution – 26

drains (Yamuna river + Hindan river)  
Noida

He explained about

- Client approaches,
- Preliminary visits,
- MoU signing,
- DPR preparation components
  - Site visit report
  - Feasibility report
  - Detailed Estimates (from Schedule of rates and Analysis of rates)
  - Design drawings

He also explained about his work on Constructed Wetlands design based on HRT, Gau Vigyan Anusandhan Kendra, Devlappar and JNNURM projects. Total 25 students were present.





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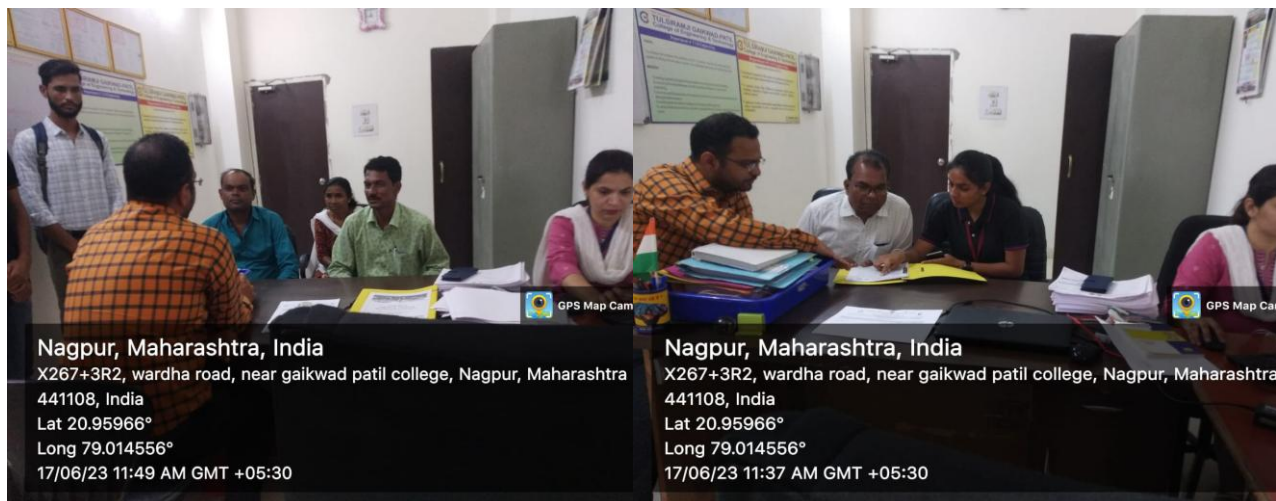
#### Parents Teacher Conclave (PTC)

**June 17<sup>th</sup>:** The Parent Teacher Conclave for Civil Engineering students of 4<sup>th</sup> semester (Autonomous) was scheduled on 17-06-2023 to discuss about Department activities, student progress and performance. The meeting was conducted at HoD Cabin from 10.30 AM to 2.00 PM. Meeting started with welcome of parents followed by departmental presentation, address by HOD, Parents interaction with faculty of individual course and Vote of Thanks.

The meeting was held in order to discuss the performance of students with their parents.

Also feedback regarding their studies, health and performance was discussed with their parents.

In this meeting the course coordinators and parents discussed about the area through which they can improve their wards for the better results. The progress report i.e mark of recently completed CT-1 Examination was shown to them and the teachers had noted the suggestions given by parents. The PTC came to an end with the conclusion that the progress of the students depends on the joint effort, mutual understanding & co-operation of parents and faculties.



**Civil Engineering Department organized a Two Days “Survey Camp” at VMIT Campus, Dongargaon, Nagpur under ARTEX Forum in association**





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#### with Indian Concrete Institute (ICI), Institution of Engineers (India) and Indian Student Technical Education (ISTE)

**July 10<sup>th</sup> & 11<sup>th</sup>** : Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur organized a Two Days "Survey Camp" for students of 2<sup>nd</sup> Year/ 4<sup>th</sup> Semester Autonomous. Students perform various practical on site and study the working of various instrument which was studied in theoretical part. Student was also studied how to overcome various obstacles which was occurred during performing survey on site.

for their inspirational work done and congratulated the students for active participation in the Camp as well as for the successful completion of the Camp. Efforts taken by Prof. Aasif Baig, Head of Civil Engineering Department, Prof. Sanjay Bhadke, Prof. Mohitsingh Katoch, Prof. Divyani Harpal, Prof. Nayana Sangole, Prof. Chetna Raut, Prof. Gayatri Badole and Prof. Priyanka Petkar proved instrumental in conducting the Camp successfully.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Principal, Prof. Pragati Patil, Vice-Principal, appreciated the faculty members





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### Department of Civil Engineering

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### Civil Engineering Department organized “Three-Day Workshop on “Total Station” in association with IEI, ICI, ISTE Students’ Chapter

Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur (An Autonomous Institute) under ARTEX Forum in association with IEI, ICI, ISTE has organized “Three Days Workshop on “Total Station” by Mr. Mangesh K. Urade Reyan Engineers and Land Surveyors Nagpur on 13th-15<sup>th</sup> July 2023. Mr. Mangesh K. Urade has conducted workshop for 2nd Year/ 4th semester Autonomous Civil Engineering UG students. He has connected the Dhruv consultancy services ltd. (A.E-NHAI) Nagpur. He has covered the horizontal distance measured with the help of Total Station (TS) and find the accurate distance of area of field Surveying and building works. He has studied during graduation limited to syllabus with the Expert in Surveying and construction sites. He has covered industrial Experience followed for Surveying, building construction, land survey Area of contouring, Projects and planning Total station. Construction industry challenges in Total area of measurement accuracy of road projects, building projects and arrangement in Area of plotting, Layout of building, Road survey has been

discussed in detail during the workshop, followed by hands-on training session with using design software Auto CAD by Mr. Mangesh K. Urade also took a session on review of area of plotting, road projects drawing of on-site projects.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Prof. Pragati Patil Vice-Principal, Prof. Anup Gade, Dean Academics has appreciated the faculty members for their efforts, and congratulated students for active participation in the Three-day workshop. Efforts taken by Prof. Aasif Baig, Head of Civil Engineering Department, Prof. Gayatri Badole, Program Coordinator, Prof. Amey Khedikar, Prof. Sanjay Bhadke, Prof. Divyani Harpal, Prof. Mohitsingh Katoch, Prof. Priyanka Petkar, Prof. Nayana Sangole Prof. Chetna Raut proved instrumental in conducting the workshop successfully. All faculty members & students of Civil Engineering Dept. attended the workshop prominently.







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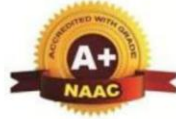
### 1st year Civil Engineering Department organized “site visit” at Shankarpur Water Treatment Plant Nagpur under ARTEX Forum in association with Indian Engineering Institution (IEI), Indian Water Works Association (IWWA) and Indian Student Technical Education (ISTE)

**17<sup>th</sup> July 2023:** Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur organized a site visit at Shankarpur water treatment plant for students of 1<sup>st</sup> Year/ 2<sup>nd</sup> Semester. The visit provide students with practical learning opportunities and bridge the gap between theoretical knowledge and real-world implementation. Students observed the equipment and processes used in water treatment, gaining insights into techniques used. They also developed an understanding of the plant layout, infrastructure, and the interplay of components to ensure a continuous supply of treated water. Furthermore, students had the chance to network with professionals in the water treatment industry, seek guidance, and explore potential career paths in water

engineering and environmental engineering. Overall, the site visit enhances understanding of water treatment processes and provides valuable exposure to practical applications in the field of water engineering.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Principal, TGPCET, Prof. Pragati Patil, Vice-Principal, appreciated the faculty members for their inspirational work done and congratulated the students for active participation in the site visit as well as for the successful completion of the site visit. Efforts taken by Prof. Aasif Baig, Head of Civil Engineering Department, Prof. Sanjay Bhadke, Prof. Mohitsingh Katoch, Prof. Divyani Harpal, Prof. Nayana Sangole, Prof. Gayatri Badole and Prof. Priyanka Petkar, Prof. Chetna Raut proved instrumental in conducting the site visit successfully.





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