

# Tulsiramji Gaikwad-Patil College of Engineering and Technology

Wardha Road, Nagpur-441 108

NAAC A+ Accredited

Session 2021-2022



## Department of Civil Engineering

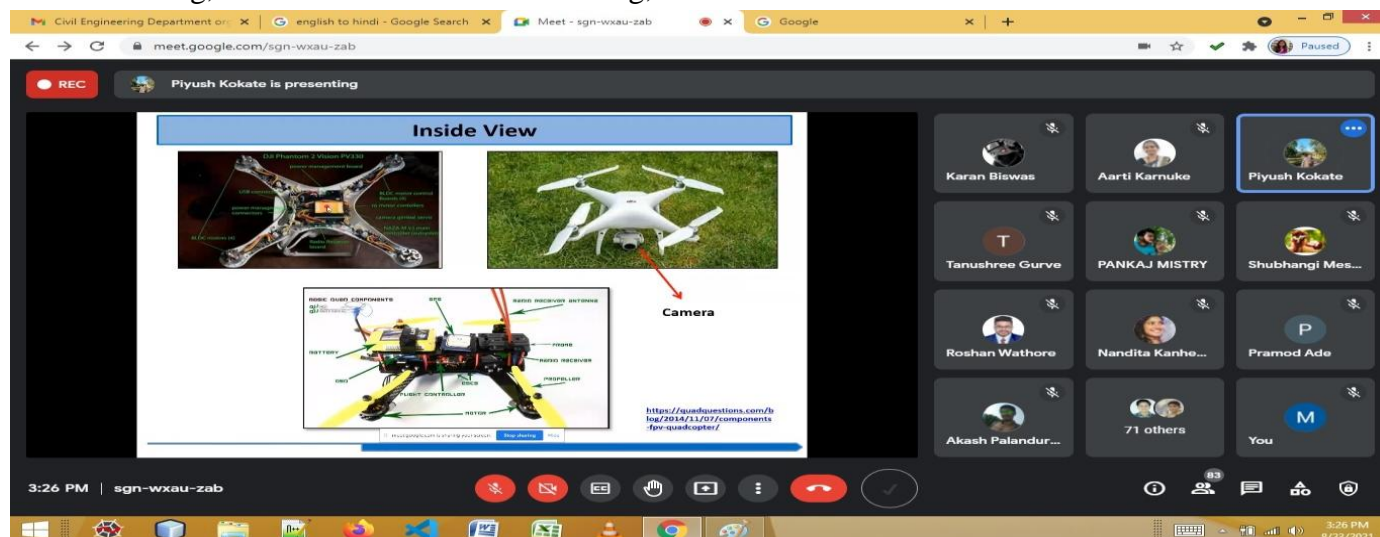
### News Letter

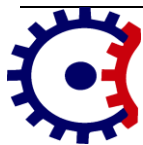
Student Chapter

## Civil Engineering Department organized an E-Expert Lecture (webinar) on “Drone Technology for Environmental Engineering” under ARTEX Forum in association with Indian Water Works Association (IWWA), ISTE and Institution of Engineers (India)

**August 23<sup>rd</sup>:** Civil Engineering Department organized an E-Expert Lecture (webinar) on “Drone Technology for Environmental Engineering” delivered by Mr. Piyush Kokate, Senior Scientist, Energy & Resource Management Division, CSIR-NEERI, Nagpur. The expert gave detailed information about the history of drone technology & the novelty of drone technology & its benefits in the field of Civil Engineering like surveying & mapping for infrastructure sector. He also explained in brief about technical applications of drones in Environmental Engineering like biodiversity & habitat mapping, tree & animal species identification, canals & dams’ inspection, seashore mapping, air & water quality sampling & monitoring, MSW emissions monitoring,

inspection of solar panels & agricultural crops, etc. Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. Geeta Padole-Gaikwad, Principal, Dr. Prashant Kadu, Director (IIIL), Prof. Pragati Patil, Vice-Principal, appreciated the faculty members for their inspirational work done and congratulated the students for active participation in the webinar as well as for the successful completion of the program. Efforts taken by Prof. Amey Khedekar, Head of Civil Engineering Department, Prof. Mohitsingh Katoch, Program Coordinator, Prof. Aasif Baig, Prof. Sanjay Bhadke, Prof. Milind Khamgaonkar, Prof. Shefali Ghutke, Prof. Arti Karnuke, Prof. Priyanka Petkar and Prof. Divyani Harpal; proved instrumental in conducting the program successfully.





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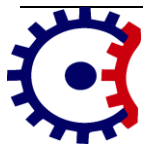
Student Chapter

### Civil Engineering Department organized a Virtual site visit at “National Environmental Engineering Research Institute” under ARTEX Forum in association with Indian Water Works Association (IWWA), Institution of Engineers (India)

**September 03<sup>rd</sup>:** Civil Engineering Department of Tulsiaramji Gaikwad-Patil College of Engineering and Technology, Nagpur organized a Virtual site visit at “National Environmental Engineering Research Institute”. Mr. Prakash Kumbhare, senior principal scientist, PRMMG, Nagpur and Prof. Mohitsingh Katoch very well coordinate the virtual site visit. He introduced the various departments in NEERI and working of the various departments such as water technology & Management division, Air pollution control division, waste water technology division and Haritsangrahalaya. He also motivated the students about environment conservation and role of civil engineer in the conservation of environment.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. Geeta Padole-Gaikwad, Principal, Dr. Prashant Kadu, Director (IIIL), Prof. Pragati Patil, Vice-Principal, appreciated the faculty members for their inspirational work done and congratulated the students for active participation in the virtual site visit as well as for the successful completion of the site visit. Efforts taken by Prof. Amey Khedekar, Head of Civil Engineering Department, Prof. Mohitsingh Katoch, Virtual site visit Coordinator, Prof. Aasif Baig, Prof. Sanjay Bhadke, Prof. Milind Khamgaonkar, Prof. Arti Karnuke, Prof. Priyanka Petkar and Prof. Divyani Harpal; proved instrumental in conducting the site visit





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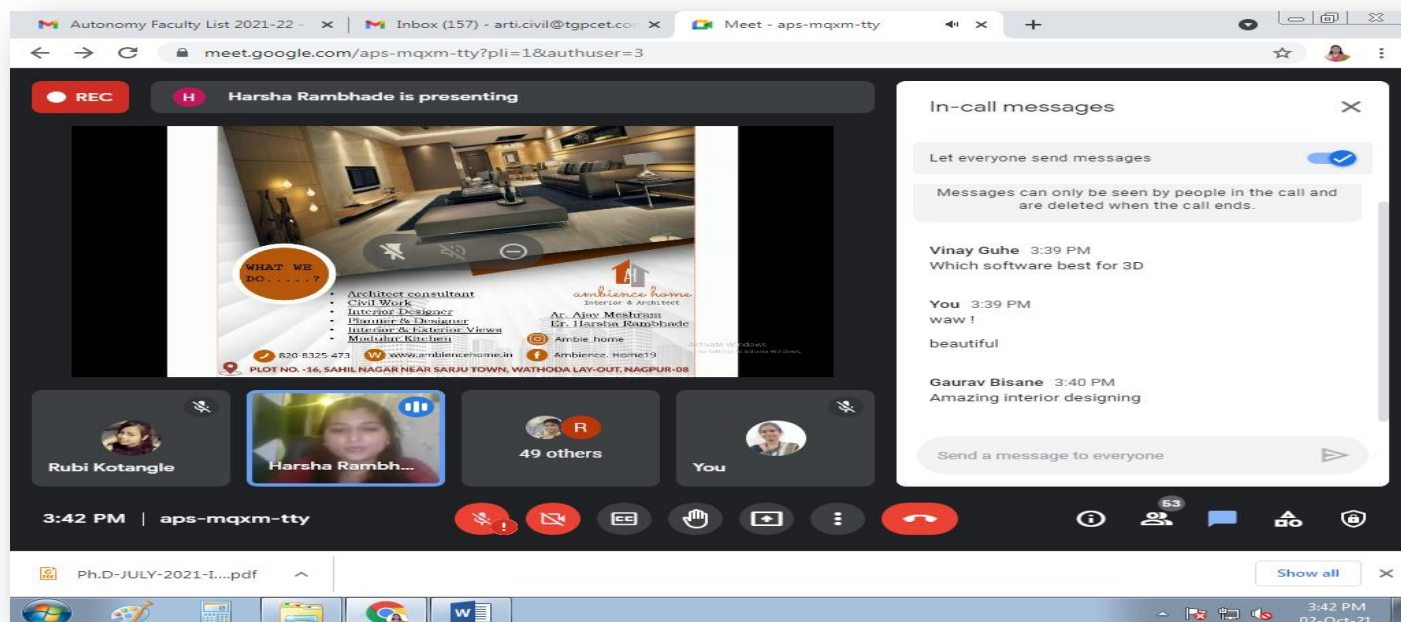
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Student Chapter

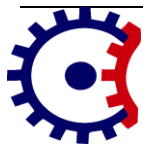
## Department of Civil Engineering organized an E-Expert Talk (Alumni webinar) on “Career in Interior Designing & Opportunities” under ARTEX Forum in association with ISTE and Institution of Engineers (India), Indian Concrete Institute (ICI)

**September 17<sup>th</sup>**; Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur organized an E-Expert Talk (Alumni webinar) on “**Career in Interior Designing & Opportunities**” delivered by Ms. Harsha Rambhade, Interior Designer, Ambience Home, Nagpur. The expert gave detailed information about scope of interior designing and various career options in interior designing. She also explained which education is needed to become an interior designer. Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. Geeta Padole-Gaikwad, Principal, Dr. Prashant Kadu, Director (IIIL),

Prof. Pragati Patil, Vice-Principal, appreciated the faculty members for their inspirational work done and congratulated the students for active participation in the webinar as well as for the successful completion of the program. Efforts taken by Prof. Amey Khedikar, (HOD), Prof. Sanjay Bhadke, Program Coordinator, Prof. Aasif Baig, Prof. Mohitsingh Katoch, Prof. Milind Khamgaonkar, Prof. Arti Karnuke, Prof. Priyanka Petkar and Prof. Divyani Harpal & Shefali Ghutke proved instrumental in conducting the program successfully.







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## Department of Civil Engineering organized a Virtual site visit at “All India Institute of Medical Science”, Nagpur under ARTEX Forum in association with Indian Concrete Institute (ICI), Institution of Engineers (India)

**September 25<sup>th</sup>:** Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur organized a Virtual site visit at “All India Institute of Medical Science”, Nagpur. Mr. Sachin Motghare, project manager, Nagpur and Prof. Priyanka Petkar very well coordinate the virtual site visit. He explains the various aspects of construction and various complications comes during construction. He also explains briefly about the different materials used on the construction site. He also motivated the students about environment conservation and role of civil

engineer in the environment friendly construction. Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. Geeta Padole-Gaikwad, Principal, Dr. Prashant Kadu, Director (IIL), Prof. Pragati Patil, Vice-Principal, appreciated the faculty members for their inspirational work done and congratulated the students for active participation in the virtual site visit as well as for the successful completion of the site visit. Efforts taken by Prof. Amey Khedikar, Head of Civil Engineering Department, Prof. Priyanka Petkar, Virtual site visit Coordinator, Prof. Aasif Baig,



**TULSIRAMJI GAIKWAD-PATIL**  
College of Engineering & Technology

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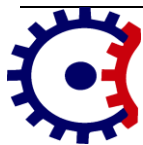


## Department of Civil Engineering



**Visit at Construction site of  
AIIMS, Nagpur (MIHAN)**

**Prof. Priyanka Petkar**  
**G GAIKWAD-PATIL**  
GROUP OF INSTITUTIONS



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Prof. SanjayBhadke, Prof. MilindKhamgaonkar,  
Prof. ArtiKarnuke, Prof. MohitsinghKatoch and

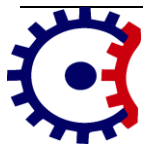
Prof. DivyaniHarpal; proved instrumental in  
conducting the site visit successfully.

### **Civil Engineering Department organized an E-Expert Talk (Alumni webinar) on “Advances in Pre- engineered Structures” under ARTEX Forum in association with ISTE and Institution of Engineers (India), Indian Concrete Institute (ICI)**

**September 28<sup>th</sup>:** Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur organized an E-Expert Talk (Alumni webinar) on “Advances in Pre- engineered Structures” delivered by Ms. YaminiDadwe, Director Accurate Megastructure, Nashik. The expert gave detailed information about the benefits and advantages of pre- engineered building. He also explained the different types of material used for pre-engineered buildings and various applications of the pre-engineered building.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. GeetaPadole-Gaikwad, Principal, Dr. Prashant

Kadu, Director(IIIL), Prof. PragatiPatil, Vice-Principal, appreciated the faculty members for their inspirational work done and congratulated the students for active participation in the webinar as well as for the successful completion of the program. Efforts taken by Prof. Amey Khedikar, Head of Civil Engineering Department, Prof. SanjayBhadke, Program Coordinator, Prof. AasifBaig, Prof. MohitsinghKatoch, Prof. MilindKhamgaonkar, Prof. ArtiKarnuke, Prof. Priyanka Petkar and Prof. DivyaniHarpal; proved instrumental in conducting the program successfully. Prof. ShefaliGhutke did Anchoring for the program successfully. All faculty members & students of Civil Engineering department attended webinar prominently.



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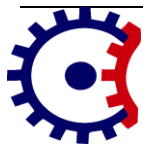
**Civil Engineering Department organized a Site visit at “Level Crossing 104 (Construction of Railway Under Bridge and Expansion of Railway Track) Mohgaon, Nagpur” under ARTEX Forum in association with Indian Concrete Institute (ICI), Institution of Engineers (India) and Indian Student Technical Education (ISTE)**

**December 3<sup>rd</sup>:** Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur organized a Site visit at “Level Crossing 104 (Construction of Railway Under Bridge and Expansion of Railway Track), Mohgaon, Nagpur”. Er. M.G. Joshi, Senior Assistant Engineer, Central Railways, Nagpur, gives the information about the railways and how it works. He also explained to the students about the ongoing project on Construction of Railway Under Bridge and Expansion of Railway Track and he describes the basic drawings of design of thrust area and how

precast works done on the site. Er. M.G. Joshi very well defines different railway engineering aspects with ease so that students will understand it very easily. He also motivated students about to work on economical construction.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. Geeta Padole-Gaikwad, Principal, Dr. Prashant Kadu, Director (IIL), 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





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completion of the site visit. Efforts taken by Prof. AmeyKhedikar, Head of Civil Engineering Department, Prof. SanjayBhadke, Prof. AasifBaig,

Prof. ArtiKarnuke, Prof. Priyanka Petkar and Prof. DivyaniHarpal proved instrumental in conducting the site visit successfully.

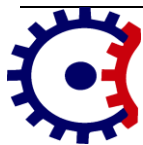


## Civil Engineering Departments of Tulsiramji Gaikwad- Patil College of Engineering and Technology and Tulsiramji Gaikwad- Patil College of Engineering and Technology, Polytechnic conducted All India Workshop on “Application of Advanced Surveying Instruments” in association with Indian Concrete Institute (ICI), Nagpur Local Center

**December 20<sup>th</sup>:** Civil Engineering Departments of Tulsiramji Gaikwad-Patil College of Engineering and Technology, and Tulsiramji Gaikwad-Patil College of Engineering and Technology Polytechnic, Nagpur conducted **All India Workshop on “Application of Advanced Surveying Instruments”**. The program was inaugurated in the presence of Dr. Prashant Kadu, Principal AGPCE and Director (IIIL), Dr. Narendra Chaudhari, Dean R&D and Er. Ashwin Chandsarode and Er. Sumit Bagmar, Forest surveyor, Metro Rail Corporation, Nagpur. HOD Civil Engineering Dept. Prof. AmeyKhedikar gave opening remark and further Dr. Prashant Kadu gave the brief knowledge about ancient surveying method and modern surveying methods also Sir gave the example of Sant Gadge Baba on his death anniversary, surveying methods adopted by him. In first phase of workshop

Prof. Mohitsingh Katoch gave the detail presentation on various advanced instruments used in surveying. And in the second phase of the workshop, students were divided into three groups, and live demonstration was shown. They were also allowed to operate Total Station, Auto Level and handy GPS under the supervision of experts. They also guided the students about the importance of surveying and how these instruments help to ease work on construction site. Students from different colleges actively participated in the workshop. Total 110 participants attended the workshop.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. Geeta Padole-Gaikwad, Principal, Dr. Prashant Kadu, Director (IIIL), Prof. Pragati Patil, Vice-Principal, appreciated the faculty members for their inspirational work done and congratulated the students for active participation in the



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All India Workshop on “**Application of Advanced Surveying Instruments**” as well as for the successful completion of the workshop. Efforts taken by Prof. AmeyKhedikar, Head of Civil Engineering Department, Prof. AmolBarde, Head of Civil Engineering Department, Polytechnic, Prof. Nitin

Kakde, Dean Polytechnic, Prof. ShefaliGhutke and Prof. Priyanka Sinha Coordinator of Workshop, Prof. SanjayBhadke, Prof. AasifBaig, Prof. MohitsinghKatoch, Prof. ArtiKarnuke, Prof. Priyanka Petkar proved instrumental in conducting the workshop successfully.



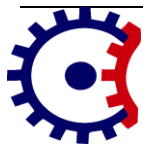
### Civil Engineering Department organized a Site visit at “Sewage Treatment Plant, Bhandewadi, Nagpur” under ARTEX Forum in association with Indian Concrete Institute (ICI), Institution of Engineers (India) and Indian Student Technical Education (ISTE)

**March 12<sup>th</sup>:** Civil Engineering Department of Tulsi Ramji Gaikwad-Patil College of Engineering and Technology, Nagpur organized a Site visit at “**200 MLD Sewage Treatment Plant, Bhandewadi, Nagpur**”. Mr. Pramod Malshiraskar, Plant Head, STP, Bhandewadi Nagpur, gives the information about the different units of plant and how it works. He also explained to the students about the New techniques of treating waste water. He also motivated students about the work on economical Waste Water Treatment.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer,

GPGI, Dr. Geeta Padole-Gaikwad, Principal, Dr. Prashant Kadu, Director (IIL), 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. Amey Khedikar, Prof. Milind Khamgaonkar, Prof. Rohit Deshmukh, Prof. Divyani Harpal and Prof. Priyanka Petkar proved instrumental in conducting the site visit successfully.





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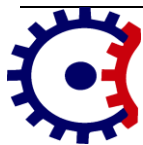


### Civil Engineering Department organized a Site visit at “IIM, MIHAN, Nagpur” under ARTEX Forum in association with Indian Concrete Institute (ICI), Institution of Engineers (India) and Indian Student Technical Education (ISTE)

**March 12<sup>th</sup>:** Civil Engineering Department of Tulsi Ramji Gaikwad-Patil College of Engineering and Technology, Nagpur organized a Site visit at “IIM, MIHAN, Nagpur”. Mr. Jayant Kadav, Senior project manager, MIHAN Nagpur, gives the information about the Quality Parameter and check list of work used in construction. He also explained to the students about the New techniques of Construction. He also motivated students about the work on economical Construction.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer,

GPGI, Dr. Geeta Padole-Gaikwad, Principal, Dr. Prashant Kadu, Director (IIL), 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. Amey Khedikar, Prof. Milind Khamgaonkar, Prof. Shraddha Kale, Prof. Rohit Deshmukh, Prof. Divyani Harpal and Prof. Priyanka Petkar proved instrumental in conducting the site visit successfully.



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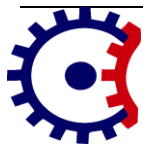


## Civil Engineering Department organized a Guest Lecture on topic “Irrigation Planning, Yield Studies and Simulation” under ARTEX Forum in association with Indian Water Works Association (IWWA), ISTE & IE(I)

**March 22<sup>nd</sup>:** Civil Engineering Department of Tulsiramji Gaikwad-Patil College of Engineering and Technology, Nagpur organized a Guest Lecture on topic “Irrigation Planning, Yield Studies and Simulation”. Shri. Narayan G. Oke, Retired Deputy Engineer, Water Resources Department, Maharashtra was the invited speaker. Sir gave the information about different types of canals, dams, spillways, and catchment areas of these structures. He also explained to the students about different empirical formulae used to calculate the amount of rainfall, High Flood level, catchment basin, etc. He also motivated students about taking projects based on various hydrological works and parameters.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. GeetaPadole-Gaikwad, Principal, Dr. Prashant Kadu, Director (IIIL), Prof. PragatiPatil, Vice-Principal, appreciated the faculty members for their inspirational work done and congratulated the students for active participation in the guest lecture. Efforts taken by Prof. AasifBaig, Head of Civil Engineering Department, Prof. Sanjay Bhadke, Prof. Amey Khedikar, Prof. MilindKhamgaonkar, Prof. RohitDeshmukh, Prof. DivyaniHarpal, Prof. Priyanka Petkar and Prof. MohitsinghKatoch proved instrumental in conducting this guest lecture successfully.





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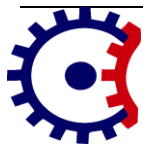
### Civil Engineering Department organized a Guest Lecture on topic “Design Considerations for Kolhapur-type Weirs on Rocky & Soft Foundations” under ARTEX Forum in association with Student Chapters of ICI, ISTE & IE(I)

**April 22<sup>nd</sup>:** Civil Engineering Department of Tulsiramji Gaikwad–Patil College of Engineering and Technology, Nagpur organized a Guest Lecture on topic “Design Considerations for Kolhapur-type Weirs on Rocky & Soft Foundations”. Shri. Jayant M. Dharkar, Retired Sub-Divisional Engineer, Water Resources Department, Government of Maharashtra was the invited speaker. Sir gave detailed information regarding different types of weirs like Kolhapur-type weir, Submerged weir, Overflow weir etc. Around 15000 weirs are constructed in Maharashtra, was told by him. He also explained about the installation of notches and catwalk

bridges. He gave information regarding various components of Kolhapur-type weirs which includes body wall, sill beam, slot channels, key walls, needles of approximately 1-ton and about deflection control using simply supported needles including the formula for site selection.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. GeetaPadole-Gaikwad, Principal, Dr. Prashant Kadu, Director (IIIL), Prof. PragatiPatil, Vice-Principal, appreciated the faculty members for their inspirational work done and congratulated the students for active participation in the guest





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lecture. Efforts taken by Prof. AasifBaig, Head of Civil Engineering Department, Prof. Sanjay Bhadke, Prof. Amey Khedikar, Prof. MilindKhamgaonkar, Prof. RohitDeshmukh,

Prof. DivyaniHarpal, Prof.PriyankaPetkar and Prof. MohitsinghKatoch proved instrumental in successful conduction of this guest lecture.



**Civil Engineering Department organized a Two Days “Survey Camp” at VMIT Campus, Dongargaon, Nagpur under ARTEX Forum in association with Indian Concrete Institute (ICI), Institution of Engineers (India) and Indian Student Technical Education (ISTE)**

**May 07<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> and 3<sup>rd</sup> Year. 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.

Dr. Mohan Gaikwad-Patil, Chairman GPG, Prof. Sandeep Gaikwad, Treasurer, GPGI, Dr. GeetaPadole-Gaikwad, Principal, Dr. Prashant Kadu, Director (IIIL), Prof. PragatiPatil, Vice-Principal, appreciated the faculty members 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. AasifBaig, Head of Civil Engineering Department, Prof. Sanjay Bhadke, Prof. Amey Khedikar, Prof. MilindKhamgaonkar, Prof. RohitDeshmukh, Prof. DivyaniHarpal and Prof.



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Priyanka Petkar proved instrumental in conducting the Camp successfully.

