



**Tulsiramji Gaikwad-Patil
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Nagpur - 441108**

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DEPARTMENT OF CIVIL ENGINEERING

NEWSLETTER (2023-24)

SURVEKSHAK



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Issue 1

About TGPCET

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) was established in the year 2007 by Vidarbha Bahu-uddeshiya Shikshan Sanstha (VBSS), a registered society. It is a self-financed Private Engineering College, which is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) Nagpur and is approved by All India Council for Technical Education, New Delhi. Also, college is approved by Directorate of Technical Education (DTE), Mumbai, Maharashtra State. The Institute is Accredited with A+ (3.32 CGPA) by NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC). An Autonomous Institute affiliated to RTM Nagpur University, Nagpur.

About Department

Department of Civil Engineering was established in 2009 with a degree course in Civil Engineering with an intake of 60 students for graduate course & later on intake of 30 students for Post graduation in Structural Engineering and 60 students for Diploma in Civil Engineering.

Civil Engineering is considered as one of the oldest engineering disciplines. Civil Engineering involves planning, designing and executing structural works. The profession deals with a wide variety of engineering tasks including designing, supervision and constructional activities of public works like roads, bridges, tunnels, buildings, airports, dams, water works, sewage systems, ports etc. and offers a multitude of challenging career opportunities. The Department is dedicated to consultancy, educational research, and an exposure of students to the trends of development in the field of Planning, Designing & Execution to meet the needs of the construction industry, consultancies and research organizations in India and abroad. The department of Civil Engineering in TGPCET possesses a faculty team of experienced & well-qualified professors, well acquainted with deep subject knowledge, commitment to disseminate quality & value-based education in technical subjects. All faculties work hard on student to meet the requirement of market and groom the student to be job friendly.

Institute Vision & Mission

Vision - To emerge as a learning Center of Excellence in the National Ethos in domains of Science, Technology and Management.

Mission -

1. To strive for rearing standard and stature of the students by practicing high standards of professional ethics, transparency and accountability.
2. To provide facilities and services to meet the challenges of Industry and Society.
3. To facilitate socially responsive research, innovation and entrepreneurship.
4. To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices

Department Vision & Mission

Vision - To forge learning Center of Excellence in the field of Civil Engineering.

Mission -

1. To promote academic and ethical development while upholding high standards.
2. To provide advance facilities with the skills needed to face Industry and societal challenges.
3. To promote socially responsible research, innovation, and entrepreneurship in the field of Civil Engineering.
4. To foster the holistic development of both students and faculty members by inculcating a blend of knowledge and professional work methods for overall progress.

Department – Program Specific Outcomes (PSOs)

PSO 1 - Competency to manage large infrastructure projects while providing safe and cost-effective project execution, along with expertise of rapid construction and project management.

PSO 2 - Plan, execute, manage, maintain and rehabilitate civil engineering systems and processes.

PSO 3 - Apply innovative construction and management techniques to compete with modern structural design and construction within the budget and time frame.

Department – Program Educational Objectives (PEOs)

PEO 1 - Analyse and design civil engineering structures while keeping social awareness and ethical responsibilities in mind.

PEO 2 - Demonstrate leadership abilities in supporting sustainable practices in Civil Engineering.

PEO 3 - Exhibit a commitment to lifelong learning, staying updated on developing technologies and industry trends, and adjusting to the evolving world of Civil Engineering.

PEO 4 - Executing Proficiency in creative problem-solving and innovation, demonstrating an entrepreneurial attitude within the context of Civil Engineering.

Program Outcomes (POs) – Engineering

PO 1 – Engineering Knowledge

PO 2 – Problem Analysis

PO 3 – Design/development of Solutions

PO 4 – Conduct Investigations of Complex Problems

PO 5 – Modern Tool Usage

PO 6 – The Engineer and Society

PO 7 – Environment and Sustainability

PO 8 – Ethics

PO 9 – Individual and Team Work

PO 10 – Communication

PO 11 – Project Management and Finance

PO 12 – Lifelong Learning

“Intelligence plus character – that is the goal of true education” – Martin Luther King Jr.

Message from HoD



Dr. Snehal Abhyankar
HoD (Civil)

I am delighted to present the welcome message for our newsletter **"SURVEKSHAK"** which gives glimpses of the cumulative efforts of the Department of Civil Engineering (TGPCET) & highlights major key activities that have taken place during the academic year 2023-24, guided by the Honorable Management & Principal and supported by the administration.

"Survekshak" is a Hindi word that translates to "Surveyor" or "Explorer." This name perfectly encapsulates the spirit of exploration and investigation that drives civil engineering.

Our department has a team of qualified and experienced faculty and staff members and we are striving hard continuously to improve upon the quality of education and to maintain its position of leadership in engineering and technology. The core values of the department help the students to develop their overall personality and make them worthy technocrat to compete and work at global level. I am certain that our students will prove to be an invaluable asset to an organization.

Message from Editorial Board



Mr. Harish Bahekar
Chief Editor (Student)

"Survekshak" signifies a keen observer, someone who meticulously examines the built environment, analyzes challenges, and seeks innovative solutions. It reflects the department's commitment to pushing the boundaries of knowledge and contributing to the advancement of civil engineering.

As the Chief Editor of **"Survekshak"** – a civil engineering department annual newsletter, please let me start by conveying my regard to all the team members who supported me for making this happen especially Juhi Ramteke, Sujal Mirche & Pranali Kothekar (Student Editors).

I would like to thank Dr. Snehal Abhyankar (HOD, Civil) for her continuous motivation, inputs and time to time feedback for the final draft of **"Survekshak"**.

Our department has been conducting seminar / conferences since its beginning to keep the faculty and students abreast with the latest developments in the field of technical education.

Let us work together to build a stronger and more vibrant Civil Engineering department that contributes significantly to the academic and professional landscape.



Ms. Juhi Ramteke
Student Editor



Mr. Sujal Mirche
Student Editor



Ms. Pranali Kothekar
Student Editor

Student Achievement in Activities

Sr. No.	Name of Student	Name of Events	Details of Activity	Event Organized By / Date of Conduction	Position/ Remark	Awards & Prizes
1	Ritik Meshram	Singing Competition (Solo)	Youth-Tech Connect 2024	Suryodaya College of Engineering & Technology, Nagpur (20-25 February 2024)	Winner	Superstar Singer Award
2	Ritik Meshram	Singing Competition (Solo)	Youth-Tech Connect 2024		Winner	Rockstar Award
3	Maithili Mothe	Sports (All India Level)	Gondwana Cup (All India Tennis Tournament)	All India Tennis Association (AITA) & Chhatisgarh State Tennis Association (CSTA) 25-29 December 2023	Women's Singles Event	Semi-finalist
4	Jatippriyo Sarkar	Sports (State Level)	Zenith-24 (Football)	Shri Guru Gobind Singhji Institute of Engineering & Technology, Nanded (Maharashtra) (23-25 February 2024)	Winner	1 st Position
5	Jatippriyo Sarkar	Sports	Aarambh-2024 (Football)	Shri Sant Gajanan Maharaj College of Engineering, Shegaon (Maharashtra) (February 2024)	Winner	1 st Position
6	Jatippriyo Sarkar	Sports	Utkarsh-2K24 (Shikhar-2K24) Football	TGPCET (23-28 January 2024)	Winner	1 st Position
7	Jatippriyo Sarkar	Sports	Men's I Zonal Sports Meet 2023-24	Inter Engineering Diploma Students' Sports Association (IEDSSA) Maharashtra State	Participation	As a Sports Referee
8	Jatippriyo Sarkar	Sports	Khelo Nagpur Khelo (Football)	Khasdar Krida Mahotsav	Participation	-
9	Anadi Haldar	Sports (State Level)	Zenith-24 (Football)	Shri Guru Gobind Singhji Institute of Engineering & Technology, Nanded (Maharashtra) (23-25 February 2024)	Winner	1 st Position
10	Anadi Haldar	Sports	Aarambh-2024 (Football)	Shri Sant Gajanan Maharaj College of Engineering, Shegaon (Maharashtra) (February 2024)	Winner	1 st Position
11	Vaishnavi Kamde, Sanket Nagulwar, Shrikrushna Shirgawar, Akash Shirgawar, Amit Dhodare, Vipin Sahare	Paper Publication	"Experimental Investigation of Mechanical Properties of Concrete by adopting Bubble Deck Technology"	IC-IKSAT-2K24 (15-16 March 2024)	Winner	Best Paper Award

Student Achievement in Activities

Sr. No.	Name of Student	Name of Events	Details of Activity	Event Organized By / Date of Conduction	Position/ Remark	Awards & Prizes
12	Vaishnavi Kamde, Sanket Nagulwar, Shrikrushna Shirgawar, Akash Shirgawar, Amit Dhodare, Vipin Sahare	Project Model Competition	TECHRISE National level event	TGPCET in association with ISTE Student Chapter (23 April 2024)	Winner	1 st Prize
13	Pranav Pathrabe, Pankaj Chavhan, Rohan Thawkar, Abhay Kathane, Tejas Wasnik	Project Model Competition	TECHRISE National level event	TGPCET in association with ISTE Student Chapter (23 April 2024)	Winner	2 nd Prize
14	Abhay Nannaware	NPTEL	Municipal Solid Waste Management (12 weeks)	Jul-Oct 2023	Participation	61 %
15	Ashish Undirwade	NPTEL	Construction Methods & Equipment Management (8 weeks)	Jan-Mar 2024	Participation	43 %
16	Isha Krishna Amode	NPTEL	Water Economics & Governance (12 weeks)	Jul-Oct 2023	Participation	46 %
17	Priyanka Meshram	NPTEL	Municipal Solid Waste Management (12 weeks)	Jul-Oct 2023	Participation	60 %
18	Priyanka Meshram	NPTEL	Construction Methods & Equipment Management (8 weeks)	Jan-Mar 2024	Participation	46 %
19	Ashish Sangodkar	NPTEL	Wastewater Treatment & Recycling (12 weeks)	Jul-Oct 2023	Participation	60 %

Student Achievement in Activities

Sr. No.	Name of Student	Name of Events	Details of Activity	Event Organized By / Date of Conduction	Position/ Remark	Awards & Prizes
20	Ashish Undirwade	NPTEL	Municipal Solid Waste Management (12 weeks)	Jul-Oct 2023	Participation	54 %
21	Tejas Wasnik	NPTEL	Construction Methods & Equipment Management (8 weeks)	Jan-Mar 2024	Participation	46 %



Glimpses of Certifications

Reinstallation of Student Forum – “ARTEX”



Department of Civil Engineering in association with Indian Concrete Institute (ICI) Nagpur Centre organized ARTEX forum Reinstallation, ICI student chapter establishment, Felicitation of Toppers and a Guest Lecture. Dr. H. D. Chandewar, Chairman ICI Nagpur Centre was the Chief Guest and Er. Manoj Kawalkar, Structural Designer Nagpur, Er. Bhagwat Patil, Senior Civil Engineering Nagpur and Dr. Ranjeet Patil Head CED of Bhagwati Priyadarshni College Nagpur were the Guest of Honours for this event.

Aim: To felicitate and celebrate the University Toppers, and to establish Professional Student Chapter.

Site Visit to “CSIR-NEERI Campus”



Civil Engineering Department on the occasion of 82nd CSIR Foundation Day, 04th October 2023; organized an educational Site visit to CSIR-NEERI campus, Nagpur. The aim was to inculcate the scientific approach in the minds of budding engineers through real-life problem-solving solutions developed by CSIR-NEERI. Senior scientists from multiple divisions like Dr. K.V. George, Ms. Megha, Mr. Diwakar, Mr. Mohammad Danish & 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. The knowledge gained at the Medicinal Plant Garden was something new for the students. This visit concluded with a speech of Dr. Atul Vaidya, Director CSIR-NEERI and a Nukkad Natak on occasion of Vigilance Awareness Week

Site Visit to "Ambhora Bridge"



Department of Civil Engineering under ARTEX Forum in association with Indian Engineering Institution (IEI), Indian Water Works Association (IWWA), Indian Concrete Institute (ICI) and Indian Student Technical Education (ISTE) have organized Site visit for 8th semester Civil Engineering students on 15th January 2024 at Ambhora Bridge, Kuhl.

The aim of this visit was to enhance the understanding of students about the functioning and construction of a Cable Stayed Bridge.

Site Engineer Mr. Avinash Tembhurne guided the students and gave all the important details.

Teaching is a "treasure" which gets its "honor" everywhere.

INDUSTRIAL VISIT

"200 MLD Bhandewadi Sewage Treatment Plant"



Department of Civil Engineering under ARTEX Forum in association with Indian Engineering Institution (IEI), Indian Water Works Association (IWWA), Indian Concrete Institute (ICI) and Indian Student Technical Education (ISTE) have organized Site visit for 4th Year Civil Engineering student on date 14th August 2023 at Bhandewadi Sewage Treatment Plant Nagpur (200 MLD).

Aim: To enhance the understanding of students about the functioning and operations of a Sewage treatment plant.

3-days Workshop on "Total Station"



Department of Civil Engineering under ARTEX Forum in association with Indian Concrete Institute (ICI), Institution of Engineers (India) and Indian Student Technical Education (ISTE) have organized Three Days Workshop on "Total Station" for 4th year Civil Engineering student on dated 13th, 14th and 15th July 2023 at TGPCET Campus Nagpur.

Aim: To make student aware about the scope in Surveying and to make them capable to operate the Total Station.

One-day Workshop on Bamboo



Tulsiramji Gaikwad Patil College of Architecture and Tulsiramji Gaikwad Patil College of Engineering and Technology (Civil Engineering Department) in association with Bamboo Society of India, Vidarbha Chapter, (Maharashtra Chapter) has organized One-Day BAMBOO Workshop and learning activities for Civil Engineering students and faculty members on 18th August 2023.

The aim of this Bamboo Workshop was to make the students able to understand about advantages, uses, properties and various information about Bamboo.

Ar. Mahesh Mokha (Co-convener), Ar. Pradyumna Sahashrabhojane and Ar. Ashish Nagpurkar were the invited expert speakers from Bamboo Society of India, Vidarbha Chapter, (Maharashtra Chapter)

Alumni Guest Lecture on Amalgamation of BIM in Structural Designing



Department of Civil Engineering under ARTEX Forum have organized a Guest Lecture on **“Amalgamation of BIM in Structural Designing”** delivered by Mr. Ganesh Khadse, Alumni of Civil Engineering.

The aim of this Alumni Guest lecture was to understand the integration of building information modelling in structural designing and other multiple aspects covered by BIM technology in Civil Engineering

STUDENT PROFESSIONAL CHAPTER INSTALLATION Indian Concrete Institute (ICI) on 21.10.2023



Parents Teacher Conclave (25.11.2023)



Farewell Party-2k24 (24.04.2024)

TGPCET final year students given warm farewell

Final year students of civil engineering department of Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) were given a grand farewell in the college's JRD hall.

The event began with a floral welcome of final year students followed by students and staff addressing the gathering.

The event consisted of several games, dances, singing performances and cultural activities enjoyed by the audience. Additionally, students were felicitated for scoring well in NPTEL



and sponsorship amount of the project was also disbursed in the event. Final year students shared the memories of their engineering life.

The eventful programme was coordinated by Vaishnavi Muraskar under the guidance of Aasif M Baig and Snehal Abhyankar.



tgpct.com/Civil-dept.php



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