RAISONI GROUP
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G H Raisoni Institute of Engineering & Technology, Nagpur

(An Autonomous Institute Affiliated to RTM Nagpur University, Nagpur)

NAAC Accredited With A + GRADE

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DEPARTMENT OF CIVIL ENGINEERING

CIVNEWS

Newsletter

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Director, GHRIETN

Dr. Mahesh V Raut
Head of Department

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Editor-In-Chief

Mr. Pranap Paradhi

Technical Session

Ms. Dimple Kosarkar

Vision

Our aim is to impart excellent education and to develop technical skills which help to enhance their confidence to take the challenges of upcoming technologies in Civil Engineering and inculcate the culture of social responsibility.

Mission

- **MD1 :** To provide a conducive teaching – learning environment that nurtures conceptual understanding, critical thinking, and lifelong learning among Civil Engineering students.
- **MD2 :** To promote professional ethics, leadership qualities, teamwork, and continuous professional development through industry interaction and experiential learning.
- **MD3 :** To nurture competent and skilled Civil Engineering graduates with strong technical knowledge and research orientation to address social and infrastructural challenges.

Programme Educational Objectives (PEOs)

The educational programme objectives of the civil engineering program are designed to produce skilled engineers who are ready to contribute effectively to the advancement of civil engineering profession and are ready to handle the challenges of the profession.

They shall be able to:

PEO-I : To prepare students to succeed in employment / profession and / or to pursue post graduate and research educations in Civil Engineering in particular and allied Engineering discipline in general.

PEO-II: To provide students with a solid foundation in mathematical, scientific and engineering fundamentals required to formulate, analyse and solve engineering problems requiring knowledge of Civil Engineering.

PEO-III : To prepare students with engineering breadth to analyse and design to contribute in providing solutions related to multi disciplinary real-life problems.

PEO-IV: To inculcate in students professional and ethical attitude, effective communication skills and teamwork to become successful professionals.

PEO-V: To provide students with an academic environment that makes them aware of excellence and lifelong learning in emerging technologies.

Programs Outcomes

1. **Engineering Knowledge :** apply to the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis :** identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using principles of mathematics, natural sciences, and engineering sciences.
3. **Design / development of solutions :** design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. **Conduct investigations of complex problems:** use research- based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** create, select, and apply appropriate techniques, resources, and modern engineering and it tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The Engineer And Society:** Apply Reasoning Informed By Contextual Knowledge To Assess Societal, Health, Safety, Legal And Cultural Issues, And The Consequent Responsibilities Relevant To Professional Engineering Practice.
7. **Environment And Sustainability:** Understand The Impact of Professional Engineering Solutions In Societal And Environmental Contexts, And Demonstrate The Knowledge of, And Need For Sustainable Development.
8. **Ethics :** Apply Ethical Principles And Commit To Professional Ethics And Responsibilities And Norms Of Engineering Practice.
9. **Individual And Team Work :** Function Effectively As An Individual, And As A Member Or Leader In Diverse Teams, And In Multi disciplinary Settings.
10. **Communication :** Communicate Effectively On Complex Engineering Activities With The Engineering Community And With Society At Large, Such As, Being Able To Comprehend And Write Effective Reports And Design Documentation, Make Effective Presentations, And Give And Receive Clear Instructions.
11. **Project Management And Finance:** Demonstrate Knowledge And Understanding Of The Engineering And Management Principles And Apply These To One' S Own Work, As A Member And Leader In A Team, To Manage Projects And In Multidisciplinary Environments
12. **Life-long Learning:** Recognize The Need For And Have The Preparation And Ability To Engage In Independent and Life- Long Learning In The Broadest Context of Technological Change.

Program Specific Outcomes (PSO)

PSO1 : To enhance the technical ability in planning, analysis, design and maintenance in the field of civil engineering to become a competent & professional Civil Engineer.

PSO2 : To enhance the technical skills for dealing and execute the various advanced technologies in Civil Engineering.

PSO3 : To enhance the quality of material to be used in the field of civil engineering as an eco-friendly material.

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Forum Installtion

The department of Civil Engineering, G H Raisoni College of Engineering and Technology has organized the CIVISTA student forum installation for B.Tech 3rd, 5th, and 7th semester student of civil department. the forum was installed under the valuable guidance of Dr. Vivek Kapur Sir (Director), Dr. Mahesh Raut sir (HOD of Civil Department) and Forum In charge Mr. Aniket Dahasahastra.



Chief Guest of program Dr. Sandeep Shirkhedkar sir (Director, ImaGIS Engineering Solutions Pvt Ltd, Nagpur) has elaborated the importance of student forum and active participation in activities for dynamic progress of students. Mr. Aniket Dahasahastra has congratulated all forum bearers and guided them to conduct activities under forum.



Civista-Futsal Event

FUTSAL EVENT was held on 13TH October 2023 from 10:30 am 5:00 pm at G H Raisoni Institute of Engineering and Technology.

Under this event, there are total 16 teams from them 8 teams are qualify for next round. 4 teams were played for semifinal whoever win the game that team was went for finals. From these 2 teams the team which goaled more that team was winner and another one is runner up.

Aryan Meshram and Rupen Gotmareare the winners.





CIVISTA - Sold Out Event

SOLD OUT EVENT was held on 13th October 2023 from 11:30 am to 3:30 pm. Students had participated in the groups; 2 students were mandatory in each group. There were 9 teams in total, with 2 members in each team, making a total of 18 participants. There are 1 round, In this event we are providing some materials to each team with their amount which they must sell the material in campus. The primary objective of the event was to encourage creativity, teamwork, and entrepreneurial skills among the students. Teams showcased their sales and marketing skills, using innovative strategies to attract potential buyers. Various materials ranging from handmade crafts to tech gadgets were available, demonstrating the diversity of entrepreneurial ideas. Students displayed their creativity by designing eye-catching posters and advertisements to promote their products.





CIVISTA Snake & Ladder Event

SNAKE & LADDER EVENT was held on October 28, 2023, from 11.30 am to 2.00 pm. The event was successfully organized by CIVISTA forum (Department of Civil Engineering). The event was held on the institute's badminton court, providing an engaging and enjoyable experience for all participants.

The Snake & Ladder event was a resounding success. Participants, including students, faculty, and staff, gathered on the badminton court, creating a vibrant and competitive atmosphere. The event provided a break from the routine academic activities, fostering a sense of community within the department.







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Content Beyond Syllabus on Practical Report on topic “To Determine Soundness of Cement by using Le-Chateliar Apparatus

To Determine Soundness of Cement by using Le-Chateliar Apparatus” for 3th semester A2 Batch Practical students on 14- Aug-2023 for the subject “Concrete Technology”. The student found the practical very interesting. Students were able to understand the concept and application of Soundness of Cement for practical field & application for Civil Engineering construction purpose.

The practical was very informative for the students. total of A2 Batch Roll No. 21 to 40 student out of 13 has attended and highly appreciated the practical.



Content Beyond Syllabus on ‘Analysis of Portal Frames by Flexibility Method'

Content Beyond Syllabus on “Analysis of Portal Frames by Flexibility Method” was conducted by Ms. Monika Jain for the subject Advanced Structural Analysis (UCEL 402) for 4th-year (Sec A and B) on 07th September 2023 in offline mode in regular lectures slots at 208 and 209 respectively. A total of 55 students has attended this class.

The students are familiar with the analysis of beams with the flexibility method. This Lecture commenced with an Introduction to the portal frame analysis with the flexibility method, and later design problems based on the Flexibility method taking into consideration the different loading and boundary conditions that were solved.





Content Beyond Syllabus on Application of Diversion Head and River Training Works in Water Resource Engineering

As part of the Hydrology course (3rd semester). The lecture was held on October 10, 2023, from 1:15 PM to 2:10 PM and was delivered by Mr. Ashok Amgoth, Assistant Professor at GHRIT, Nagpur.

It was previously mentioned that the main permanent canal, which constitutes the primary component of a direct irrigation scheme, originates not from a diversion weir or a barrage, but rather from rivers. The arrangements at the inception of these permaxnent canals are so well designed that they guarantee a constant and uninterrupted water supply to the canal, even during periods of low flow. The structures constructed at the head of the canal to divert river water towards the canal, ensuring a regulated & continuous supply of silt-free water with a certain minimum head, are known as Diversion Head Works.



Content Beyond Syllabus on Idealization of Practical RC Buildings for Structural Analysis and Design

Under the course of Reinforced Concrete Design (UCEL 301) on 12th October 2023, Time: 4.40 PM to 5.35 PM, delivered by Mr. P. L. Kurmi.

Various failure mechanism of RC structures under earthquakes and their components, idealization of structural systems for structural analysis and design, various analysis and design problems faced by practicing engineers have been explained during the lecture. Total 64 UG students have attended the lecture and appreciated the lecture.



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Flip teaching on Design Discharge for irrigation Crops

The Subject teacher of Civil Engineering conducted a Flip teaching on "Design Discharge for irrigation Crops" for 5th Semester B. Tech students on 21st August 2023.

The Lecture commenced with the Introduction about the Irrigation and calculation of discharge for different crops, later design problems based on the water requirement taken considering the losses from canal and reservoir. Notes related to design steps and criteria were given to students two days before the day of flip teaching. Students were asked to solve the design problems based on data and previous examples.



Flip Teaching on "Flexibility Method"

Flip teaching on "Flexibility Method" was conducted by Ms. Monika Jain for the subject Advanced Structural Analysis (UCEL 402) for 4th-year (Sec A and B) 24th and 25th August 2023 in offline mode at 208 & 209 respectively.



The Lecture commenced with an Introduction about the Flexibility Method, and later design problems based on the Flexibility method taking into consideration the different loading and boundary conditions. Notes related to design steps & criteria were given to students two days before the day of flip teaching. Students were asked to solve the design problems based on data & previous examples.

Workshop on BIM

Workshop on 'BIM' was conducted on 24th July 2023 from 4.30 PM – 6.30 PM at the G.H.Raisoni Institute of Engineering and Technology, Nagpur, With help of 'Astral Informatics Pvt Ltd' Institute Ms. Priyanka Kawale, & Ms. Anjali Khote was the instructor.

The event was a success. We reached our goal to train students to use BIM. It is an achievement for Civil Department. Overall, the feedback we received was overwhelmingly positive, with 100 percent of participants commenting favorably on the experience.



One-day skill training on "Non-Destructive Test"

The Department of Civil Engineering, GHRIET, Nagpur organized a Skill Training Programme (Hands-on practice-under MOU) on "Non-Destructive Test" for second year students of section A dated on 09/09/2023 by expert Mr. M. V. Gabhane and Mr. Shubham Shahu from "Mrudashish Structural Consultant Pvt. Ltd, Nagpur".

All students of 3rd semester attended skill training programme. Overall, the session was excellent. The students can understand an instrument that uses in modern structural analysis and in structural audit which is beneficial for the students of Civil Engineering.



One-day skill training on "Total Station"

The Department of Civil Engineering, GHRIET, Nagpur organized a Skill Training Programme (Hands-on training) on "Total Station" for direct second year (DSY) students of section A dated on 21/10/2023 (Time: 2:00pm to 3:00pm)] by expert Mr. Suresh Bhoyar from Saitech Precise Instrumentation Solutions, Nagpur.

All DSY students of 3rd semester attended skill training programme. Overall, the session was excellent. The students are able to understand an instrument that uses in modern surveying and building construction which is beneficial for the students of Civil Engineering.



Guest Lecture on "Advances in Roads and Bridges"



Guest Lecture on "Advances in Roads and Bridges" was conducted by Department of Civil Engineering for Final year students on 27th October 2023 on online mode through the Webex platform. The speaker was Dr. Atul Desai, Professor, SVNIT, Surat. Sir has a total of 40 years of teaching experience.

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Basically, the lecture was conducted for the subject of Advance Structural Analysis on the topic "Advances in Roads and Bridges" Organized by Ms. M. R. Jain (Assistant Professor, Civil Department). A total of 90 students attended this guest lecture. Ms. M.R. Jain gives a vote of thanks for this event.

Guest Lecture on "BIM-360 in Construction Management"

Guest Lecture on "BIM-360 in Construction Management" conducted by Department of Civil Engineering for fourth year students 0n 16th October 2023 on online mode through webex platform. The speaker was Dr. Vasudha katare, Assistant Professor, NICMAR, Pune. She has a total 5 years of teaching experience.

Basically, the lecture conducted on subject Project Planning and Analysis on the topic "BIM-360 in Construction Management" Organized by Prof. Aniket V. Dahasahstra under the guidance of Dr. Mahesh Raut (HOD of civil Department).



4-Days Skill Training Programme on "REVIT Architecture Software"

Skill Training on "REVIT Architecture software" conducted by Department of Civil Engineering for Final year students on 27, 29, 31 July and 1 August 2023 By CADD Centre Nagpur.

The event was a successfully conducted and students are trained to use REVIT. Overall, the feedback we received was over whelming positive, with 100 percent of participants commenting favourably on the experience. REVIT is a building information modelling software tool for architects, landscape architects, structural engineers, mechanical, electrical, and plumbing engineers, designers and contractors.



Technical Lecture on "Civil Software and Internships"

Technical Lecture on "CIVIL SOFTWARES AND INTERNSHIPS" conducted by Department of Civil Engineering for 4th-year and 3rd-year students on 1st August 2023 in offline mode at Eklavya Hall (203). The speaker was Mr. Rishikesh Tantak, Engineer at Civil Engineering Software Academy, Pune.

The Speaker covered all the essential information in Civil Engineering Software by highlighting the importance of internships. Students actively participated in the entire session.

Additionally, Bentley certification has been given to each student.





Peer teaching on "Analysis of Gravity Dam"

The Subject teacher of Civil Engineering conducted a Peer teaching on "Analysis of Gravity Dam" deliver by Ms. Falguni Gangne for 5thSemester B.Tech students on 19th October 2023 in offline mode in classroom 207.

The Lecture commenced with the Introduction about the Reservoir or dam structure, different types of dams, difference between gravity and earthen dam were discussed, later design problems on the gravity dam with upstream side inclined was taken explaining the calculation of major forces acting on gravity dam, Factor of safety against overturning, sliding and shear was calculated.

Normal stress, shear stress and Principal stresses at toe and heel were calculated considering inclination on both upstream and downstream side.





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Site Visit Report on "Gosekhurd Dam"

Gosekhurd Dam, organized by the Civil Engineering Department of G H Raisoni Institute of Engineering and Technology (GHRIET), Nagpur, which took place on the 21st of October 2023. The site visit to Gosekhurd Dam was an enriching experience for the students of GHRIET. Gosekhurd Dam, located in the Bhandara district of Maharashtra, stands as an impressive structure. The dam plays a pivotal role in the region's water resource management, providing water for irrigation, drinking, and industrial purposes.

The dam, constructed across the Waingangā River, has a substantial storage capacity and plays a crucial role in mitigating floods and ensuring water supply during dry periods.



Site visit at kanhan Water Traetment Plant

Site visit was conducted on 16th October 2023 from 12 PM -3.00 PM at kanhan Water Treatment Plant, Nagpur.

The visit was a success. We reached our goal having students being able to learn about water supply and treatment processes. Overall, the feedback we received was overwhelmingly positive, with 100 percent of participants commenting favorably on the experience. Plant In charge Engineers guided the students in detail.

Subject In charge Ms Abhilasha Deshmukh and Mr Ashok Amgoth accompanied the students during visits, Total 54 students benefited from those visits.





Site Visit to "Vishnu Vaibhav Building, Akashvani Square Nagpur

The Department of Civil Engineering organized a Site Visit to "Vishnu Vaibhav Building, Akashvani Square Nagpur" for 7th semester B. Tech. students on 21st Oct. 2023. The Visit was Guided by Mr. Ketan mase, Structural Designer and Director of Mase Associates Pvt. Ltd. Nagpur.

The site visit was commended by Ms. Deepa Telang and Mr. P. L. Kurmi. The primary objective of this visit was to learn about building repair, rehabilitation & retrofitting, involving various tests and assessments to evaluate the structural stability of the building. This audit was executed with utmost diligence and precision, and the gathered data forms the basis of this report.





College Dance Club Inauguration and Dance Competition

The event was held on 13th September 2023 from 12.00 PM at the Poly auditorium of G H Raisoni Institute of Engineering & Technology, Nagpur.

The inauguration of the BEATS Dance Club followed by a dance competition, was a resounding success. It was initiated with the aim of promoting dance as an art form, providing a platform for talented dancers, and fostering a sense of community among dance enthusiasts.

The event began with a grand inauguration ceremony. Dignitaries like Dr. Arvind Mahalle sir, Prof. Anupam Choubey sir, Prof. Sudhir Juware sir and Special Guest of event Choreographer Mr. Chetan Dashmukhe, judge Mr. Anmol Ganer sir were invited to light the ceremonial lamp and deliver inspiring speeches.





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3 Days Campus Recruitment Training

Department of Civil Engineering, GHRIET, Nagpur organized three days Campus Recruitment Training from 09/10/2023 to 11/10/2023 for final year students of section A and B, from 10:30 am to 12:30 pm. The expert for the training was Tushar Muley sir and Alok Joshi sir from Training and Placement department RGI. The Overall 65 students take the benefits of this training from section A and B. The session was excellent. The students are able to understand resume writing, company requirements, skill development, and importance of industrial training which is beneficial for the students in placements in Civil Engineering companies.





Parent Teacher Meet

The Department of Civil Engineering, G H Raisoni Institute of Engineering and Technology organized the Parent Teacher Meet for B.Tech students of Civil Engineering Department on 28th Sept 2023 at 11:30 AM (Venue: Eklavya Hall).

The meeting was started with warm welcome of respected parents by HOD Civil Engineering. Later the parents were introduced to re

spective class teachers and other subject teachers. The meeting was focused on detailed discussion on attendance, progress and CAE marks of respective ward. The class teacher explained and showed F4 sheets and its importance to the parents. Mr. Aniket Dahasahastra (PTM In charge) collected undertaking and feedback forms of parents regarding instructiveness of students with faculty member. The meeting was concluded with tea and snacks for the parents.





FDP Details

Name of Faculty	Name of the Event- FDP	Duration of Event	Organised By
Ms. Deepa Telang	Recent Trends in Civil Engineering	17th to 21st July, 2023	Haldia Institute of Technology
Ms. Abhilasha Deshmukh	Recent Trends in Civil Engineering	17th to 21st July, 2023.	Haldia Institute of Technology
Ms. Abhilasha Deshmukh	Recent Advancements in Electric Vehicle Technology	24th to 28th July 2023	Department of Electrical & Electronics Engineering, Ballari Institute of Technology & Management
Ms. Deepa Telang	AI and NLP case studies and applications	21st to 25th Aug, 2023	Presidency University, Bangluru
Dr. Mahesh V. Raut	Innovation in Construction and Green Building Materials	7th to 11th Aug 2023	NITTTR, Chandigarh
Ms. Deepa Telang	Dustry 4.0: Global Opportunities and Challenges in Technical Education	14th - 21st Aug 2023 Association Of Indian Universities Bengaluru	Presidency University

STTP Details

Name of Faculty	Name of the Event - STTP	Duration of Event	Organised By
Dr. Ashwini R Tenpe	Advances in Rock Mechanics	21st 25th August 2023	MIT Aurangabad
Ms. Monika Jain	Innovation & Latest trends in Construction Materials & Techniques	17th to 28th July 2023	NITTTR, Kolkata

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Workshop Details

Name of Faculty	Name of the Event- Workshop	Duration of Event	Organised By
Dr. Ashwini R Tenpe	Advancements in Geotechnical and Foundation Engineering for Difficult ground conditions	26-30 July 2023	IGS Chapter, NIT, Srinagar
Mr. Aaquib Rasheed Ansari	Current Trends in Interior Design	4-8th Oct 2023	NIT Patna

Professional Membership

Sr. No	Name of Faculty.	Professional Society	Level of Professional Society (National/ International)	Present Status	Type of Membership (Annually/ Lifetime)	Membership Number
1.	Mr. Rahul Hinge	ICI	National	Completed	Lifetime	14271

NPTEL Courses Attended by Faculty

Sr. No.	Name of Faculty	Title	Category	Year
1	Ms. Abhilasha Deshmukh	Basic Environmental Engineering and Pollution Abatement	Ellite	Jul-Oct 2023
2	Mr. Aaquib Rasheed Ansari	Soil Mechanics/Geotechnical Engineering I	Ellite	Jul-Oct 2023

Book Chapter / Book by Faculty

Name of the Author (s)	Dept.	Title of the Book	Publisher	ISBN NO.	Year
Ms. Abhilasha Deshmukh	Civil Engineering	Advancing Plastic Recycling and Solid Waste Management	R K Publisher	978-81-19489-41-1	Nov 2023
Ms. Abhilasha Deshmukh	Civil Engineering	Artificial Intelligence in Civil Engineering	R K Publisher	978-93-953315-2-4	May 2023

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Name of Faculty	Registration Number	Title of Work	Diary Number	Date of Certificate
Mr. Aaquib Rasheed Ansari	L-137020/2023	Comparative Analysis Between Concrete Containing Nylon Zip Ties and Waste Electric Wire	-	30/11/2023

Patent

Name of Faculty	Title	Patent No.	Year	Status (Registered/ Published /Grant)
Dr. Mahesh V. Raut, Mr. Ansari Aaquib Rasheed Mr. Mayur Lohe Dr. Ankur N. Kapoor Mr. Rahul D. Hinge Ms. Trushna D. Patle Ms. Pooja V. Raut Ms. Prajwalita A. Thamke Ms. Suchmpa Bagchi	Handheld Device for Construction Mixture Analysis	395504-001	20/09/2023	Published

Conferences and other Journal

Name of Faculty	Title of Paper	Journal / Conference Name & Organizer	National / International Journal / Conderence	ISSN / ISBN / DOI Number/ Indexing	Impact Factor	Indexed in Sci / Scopus / UGC Care
Ms. Monika Jain	Evaluation of bursting force in anchorage zone of post-tensioned concrete beam modelled with multi-rectangular anchorage plate	Department of Applied Mechanics, VNIT, Nagpur	(13th Structural Engineering Convention) International Conference	-	-	Confe-rence

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Dr. Tushar Shende	Extract Beetroot as Admixture for Internal Curing for Cement Mortar (1:3)	International Conference on Innovations In Science, Hybrid Materials, & Vibration Analysis: ICISHVA2022	AIP Conference Proceedings	https://doi.org/10.1063/12.0020201	-	Scopus
Mr. Rahul Hinge	A Review of The Slow Collapse of High-Rise Buildings Caused by The Sudden Loss of Certain Architectural Components	International Research Journal of Modernization in Engg. Technology and Science (IRJMETS)	International	Other (Volume 05, Issue 11, November 2023)	7.8	

Scopus, SCIE & IEEE Papers

Name of Faculty	Title of Paper	Journal / Conference Name & Organizer	National / International Journal / Conderence	ISSN / ISBN / DOI Number/ Indexing	Impact Factor	Indexed in Sci / Scopus / UGC Care
Dr. Mahesh Raut	Utilization of Waste Plastic in the Manufacturing of Bricks along with Quarry Dust and Manufactured Sand	Indian Journal of Environm-ental Protection	International Journal	IJEP 43(7) 648-652 (2023)	0.137	SCOPUS

Ms. Abhilasha Deshmukh	Evaluation of urban sprawl and land surface temperature along with vegetation and built-up Index for Nagpur City, Maharashtra	Recent Patents on Engg.	International Journal	Volume 19, Issue 1, Nov 2025 https://doi.org/10.2174/0118722121253733231002044751	-	SCOPUS
Dr. Tushar Shende	Extract of Bio-material as Admixture for Internal curing agent for Concrete	Journal of Nano and Electronic Physics	International Journal	Volume 15, Issue 4 https://doi.org/10.21272/jnep.15(4).04026	-	SCOPUS
Dr. Tushar Shende	Experimental investigation on the use of new generation waste material in M-40 grade concrete	China Petroleum Processing and Petroche-mical Technology	International Journal	Volume 23, Issue 2	-	SCOPUS
Dr. Tushar Shende	Experimental Evaluation of New-Generation Waste Material as a Substitute in M-50 Concrete Mixes	Tuijin Jishu/ Journal of Propulsion Technology	International Journal	Volume 44, Issue 4 https://doi.org/10.52783/tjjpt.v44.i4.983	-	SCOPUS