



Department of Civil Engineering

University Institute of Technology (UIT)
Rajiv Gandhi Proudyogiki Vishwavidyalaya
(State Technological University of Madhya Pradesh),
Airport Bypass Road, Gandhi Nagar,
Bhopal 462 033, Madhya Pradesh

NEWSLETTER

July-December 2022

UNIVERSITY INSTITUTE OF TECHNOLOGY

INSTITUTE VISION

To disseminate affordable quality technical education for producing globally competent, technically proficient and socially responsible technical manpower to meet global challenges.

INSTITUTE MISSION

To establish University Institute of Technology, RGPV, Bhopal as a centre of excellence for imparting technical education through technological interventions for the sustainable development of the nation.

DEPARTMENT OF CIVIL ENGINEERING

VISION

To create professionally competent graduates with ethical values to serve society and nation sustainably.

MISSION

To develop core competent technical graduates with professional attitude, ethical values and enterprising skills.

To develop civil engineering graduates with cutting-edge technology.

Program Outcomes (POs)

1. **Engineering Knowledge:** Apply 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 first 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 the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the 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 the engineering practice.
9. **Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary 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 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 lifelong learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

PSO1: Perform Survey, Testing and Quality Control of materials for Civil Engineering Projects leading to employability and entrepreneurship.

PSO2: Plan, Design and Estimating Civil Engineering Projects with emphasis on sustainable development.

Program Educational Objectives (PEOs)

PEO1: Graduate will be a Professional Civil Engineer with ethical values to serve the society.

PEO2: Graduate will pursue Innovation and Research.

PEO3: Graduate will become an Entrepreneur.

Activities Organized

1. Engineer's Day on 15/09/2022 by TECHNOPHILIC Students' Club of Civil Engineering

The program started with formal inauguration function Chief Guest Er. D. K. Pachori, Guest of Honour Er. J.S. Saran, Er. Neelam Prasad Choudhary, Prof. Sunil Kumar, Ho'ble Vice Chancellor, RGPV, Prof. S. S. Bhadauria, Director, UIT- RGPV, Bhopal by lightening the lamp and works hoping Lordess Saraswati. A movie on Er. D. K. Pachori guided the students and said that more field training and observational skills has to be developed. Prof. Sunil Kumar, Honourable Vice Chancellor, RGPV, Bhopal enlightened the participants. In the memory of Sir M. Visvesvaraya a movie related to his contributions to Civil Engg and society was showed. Also a movie on Chenab Rail Bridge world's highest rail bridge was also watched by the students.

A quiz competition base on basic engineering was also held on this occasion. Total 129 students registered for the quiz competition. The winners of quiz were:

1st : Abhishek Parashar Government Polytechnic, Nowgong

2nd : Aman George Bose LNCT Bhopal

3rd : Mayank Solanki, UIT RGPV Bhopal and Aman Sahu, Govt. Polytechnic, Nowgong

Dr. Aruna Rawat, Asst. Professor, Civil Engg. Dept., UIT-RGPV coordinated the event.

Photos:





2. Vth semester BTech Civil Engineering students Site Visit at Van Vibhag Office, Link road no. 2, Bhopal on 23 September 2022 under IGBC Student's Chapter Madhya Pradesh first completely curved plan building and also one of the green building having the facilities like rain water harvesting, water table recharge points, reuse of water, solar panels, hollow paver blocks.





3. Gandhi Jayanti Online Quiz Competition on 02/10/2022 by TECHNOPHILIC Students' Club of Civil Engineering

A quiz competition based on All about Mahatma Gandhi was also held on eve of Gandhi Jayanti. The winners of quiz were:

- 1st : Suman Ahirwar, UIT RGPV Bhopal
 - 2nd : Arun Kalar UIT RGPV Bhopal
 - 3rd : Anand Raj Meena, UIT RGPV Bhopal
- Total 70 number of participants attended the quiz.

4. VIIth semester BTech Civil Engineering students Site Visit at Bairagh Water Treatment Plant on 01 Decemeber 2022 under IGBC Student's Chapter





Publications by Faculty and Students

Journals:

1. Devansh Jain, S. S. Bhadauria, S. S. Kushwah (Aug 2022) An experimental study of utilization of plastic waste for manufacturing of composite construction material, International Journal of Environmental Science and Technology; <https://doi.org/10.1007/s13762-022-04447-7>.
2. S. Sebastin, M. Franchis David, Alagar Karthick, Ashita Singh, J. Vanjinathan, Sanjeev Kumar, and Mahseena Akter Meem (July 2022) Investigation on Mechanical and Durability Performance of Reinforced Concrete Containing Red Soil as Alternate for M-Sand, Journal of Nanomaterials, Volume 2022, Article ID 5404416, <https://doi.org/10.1155/2022/5404416>.
3. Aruna Rawat, Matsagar V. A. (2022) Seismic Analysis of Liquid Storage Tank using Oblate Spheroid Base Isolation System based on Rolling Friction, International Journal of Non-Linear Mechanics, ISSN: 0020-7462. <https://doi.org/10.1016/j.ijnonlinmec.2022.104186>.
4. Ajay Tiwari, Aruna Rawat (2022) Fragility analysis of RCC buildings with and without masonry infills, High Technology Letters, 28(12), 57-64, ISSN No : 1006-6748, <https://doi.org/10.37896/HTL28.12/7505>.

Conference

S. No.	First Author (First Name, Last Name)	Second Author (First Name, Last Name)	Third Author (First Name, Last Name)	Paper Title	Conference Name and Place	Date and Year
1	Rahul Patel	Suresh Singh Kushwah	Aruna Rawat	Embodied energy analysis of different types of wall insulating materials used in buildings	Springer International Conference on Recent Advancement in (Civil Engineering RACE 2022) Oriental Institute of Science and Technology, Bhopal.	October 14-15, 2022
2	Ashish Kumar Gupta	Sudhir Singh Bhadauria	Aruna Rawat	Frequency Analysis of Self-supported steel chimney	Springer International Conference on Recent Advancement in (Civil Engineering RACE 2022) Oriental Institute of Science and Technology, Bhopal.	October 14-15, 2022
3	Toshi Bhavsar,	Suresh Singh	Aruna Rawat	Effect of lateral stiffness on	Springer International Conference on Recent	October 14-15,

		Kushwah		propped embedded retaining walls structure	Advancement in (Civil Engineering RACE 2022) Oriental Institute of Science and Technology, Bhopal.	2022
4	Vasuki Malviya	Aslam Hussain		Concrete filled steel cylindrical tubes	Springer International Conference on Recent Advancement in (Civil Engineering RACE 2022) Oriental Institute of Science and Technology, Bhopal.	October 14-15, 2022

WS/FDP /STTP/Seminar/Conference/Training Programme Attended

Sr. no.	Name of Faculty	WS/FDP / STTP / SEMINAR / CONFERENCE / TRAINING PROGRAMME	Title of Programme	Name of Institution/ Organization	No. of days	from date	to date
1	Suresh Singh Kushwah	FDP	OBE based Education and Accreditation	NITTTR Bhopal	5	22-8-2022	26-8-22
2	Aruna Rawat	FDP	Designing and modeling of IoT, AI and ML Systems	AICTE, ATAL Academy, Arm Education and STMICROELECTRONICS	5	1-8-22	5-8-22
3	Aruna Rawat	FDP	OBE based Education and Accreditation	NITTTR Bhopal	5	22-8-2022	26-8-22

Students Achievements

Students participated in extracurricular activities:

1. Pratyush Sharma
Mahasangram (cricket, tug of war, kabaddi ,volleyball)
2. Neha Upadhyay
Shankhnaad (nrityanjali)
3. Tanya Choubey
Shankhnaad (swaragini)
4. Tejaswini Mandloi
Mahasangram(basketball),Treasure hunt (mahasangram), Tribal cultural program-(Group Dance)
- 5.Srashti Goyal
Mahasangram (Volleyball)
- 6.Gaurav Duwasha
Mahasangram (volleyball)
7. Kovid Saxena
Mahasangram(kabaddi, tug of war,treasure hunt) Induction – dance, ATHARVA '21 [IIM INDORE]- Dance
8. Ujjaval Tiwari
Treasure hunt mahasangram sankhnaad(swaragini)

9. Shri Ram Mishra –
Mahasangram (Cricket)
10. Badal shantesu
Mahasangram (badminton), shankhnaad -(swaragini)
11. Ankit yadav
MP Police Cyber Security Internship, Volunteer (Mahasangram)
12. Suhani Solanki
Mahasangram (volunteer), Induction (volunteer), Engineer's day, ARE conference in Delhi (volunteer)
13. Naina Rokade
Mahasangram (volleyball), induction (decorating team member + volunteer + represented NSS as core team member), The Dome Club (Anchoring)
14. Ayush Singh Parihar
Mahasangram (Badminton and Treasure Hunt), Drone Workshop RGPV, The DOME Club UIT
RGPV (Contemporary Speech)
15. Siddhivinayak Chourasiya :-
MAHASANGRAM (Treasure hunt, war, carrom), Engineer's Day Anchoring
16. Kunal Sihare:- mahasangram(badminton, treasure hunt, tug of war, carrom), Sankhnaad(Swaragini) , Induction(volunteer) , Compass ambassador in Antragini'21(cultural fest of iit kharagpur) , Internship in Forage(under INFOSYS) , Attended building pawstivity , participate in GES(E-ceel IIT Kharagpur)
17. Ritik Pawar
Mahasangram, tug of war, cricket, kabaddi, Engineer's day volunteering
18. Vidhya Prakash Dwiwedi
Mahasangram, Kabaddi ,Cricket, Tug of war ,Robotics, Tech fest IIT Bombay, Sankhnaad Debate
19. Surendra Ahirwar
Mahasangram, Cricket, badminton, kabaddi and volleyball
20. Pramod Patel
Mahasangram, cricket, kabaddi
21. Kunal Taram
Treasure hunt and badminton mahasangram
22. Sanjh Chhatrasal
Treasure hunt Mahasangram
23. Chandra Shekhar Patel
Mahasangram.... Kabaddi..kho - kho.. and cricket
24. Sapna Chouhan
Tribal cultural program -(Group Dance)
25. Rahul Bhilale
ATHARVA '21[IIM Indore] -Dance
26. Aman Kaurav
Tug of war, Mahasangram



Editorial Board

Editors: Prof. S. S. Bhadauria, Head, Civil Engg. Dept., UIT-RGPV, Bhopal
Dr. Aruna Rawat, UIT-RGPV, Bhopal

Student Editors: Krishnakant, Mayank, Anjana (V sem BTech)

Email: hodcivil@rgpv.ac.in

Contact: +91-755-2678850, 2678864

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Website: <https://www.uitrgpv.ac.in/>