

THE EVOLUTION

Department of Civil Engineering
UEM Jaipur



Message from the Editor

Civil engineering has always stood at the foundation of human progress—shaping societies, connecting communities, and enabling sustainable development. With immense pride, we present EVOLUTION, the departmental magazine of the Department of Civil Engineering, UEM Jaipur.

This magazine is a reflection of our journey—from ideas to innovation, from learning to application. EVOLUTION captures the collective efforts of our students and faculty in academics, research, technical exploration, creativity, and social responsibility. It highlights not only achievements, but also the curiosity, teamwork, and perseverance that define our department.

In an era where infrastructure must balance growth with sustainability, civil engineers play a vital role in building a resilient future. Through this magazine, we aim to encourage knowledge sharing, inspire young minds, and provide a platform for voices that shape tomorrow's built environment.

I sincerely thank the faculty members for their guidance, the students for their enthusiastic contributions, and the editorial team for their dedication in bringing this vision to life. I hope this issue of EVOLUTION informs, inspires, and motivates every reader.

Happy reading.

Dr. Umesh Kumar Das

Assistant Professor

Department of Civil Engineering

University of Engineering and Management, Jaipur



Vision, Mission and Background of the Department of Civil Engineering

Vision

To achieve excellence in Civil Engineering education and research at UEM Jaipur, fostering innovation, sustainability, and social responsibility to address the needs of a rapidly developing world and contribute to global advancements.

Mission

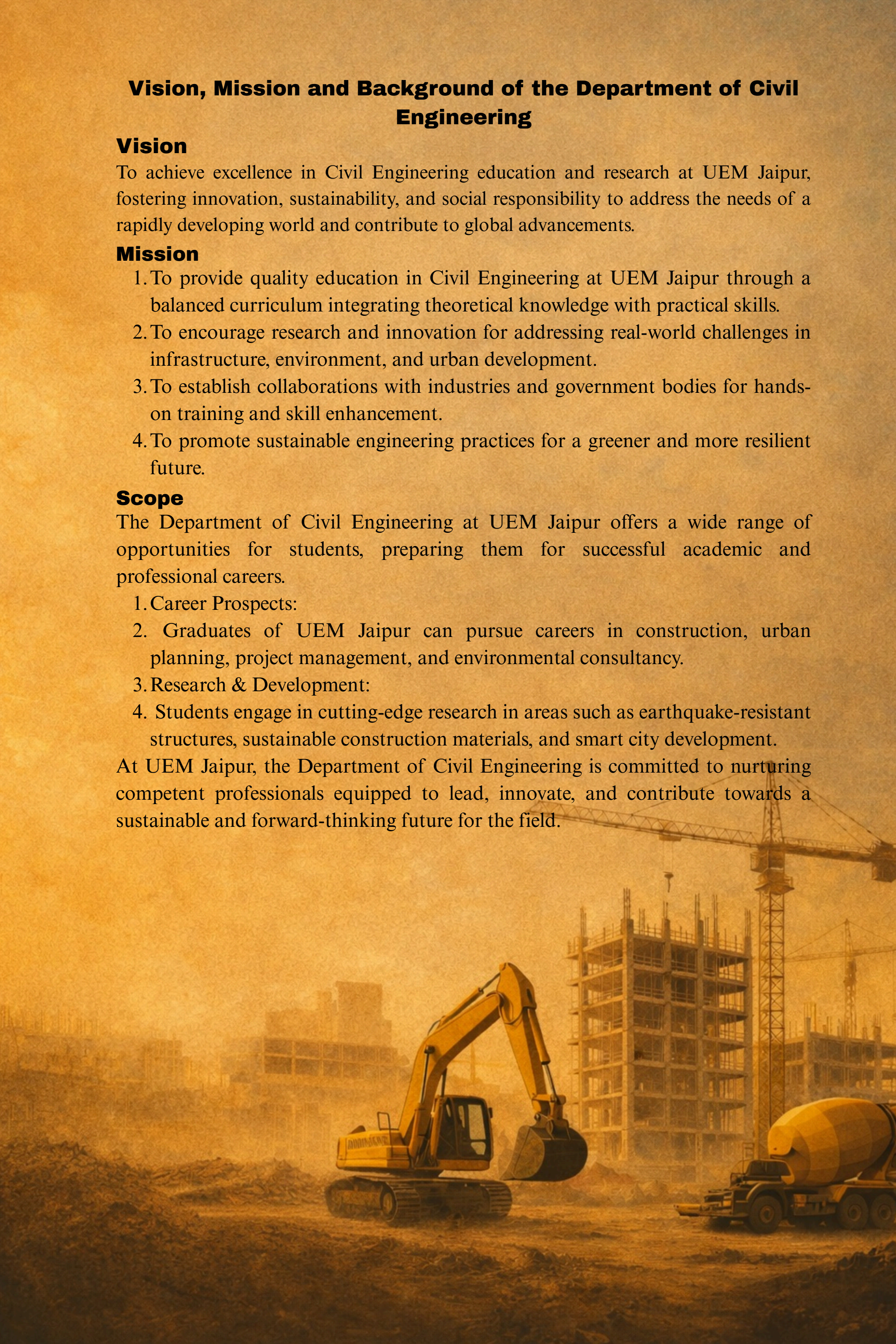
1. To provide quality education in Civil Engineering at UEM Jaipur through a balanced curriculum integrating theoretical knowledge with practical skills.
2. To encourage research and innovation for addressing real-world challenges in infrastructure, environment, and urban development.
3. To establish collaborations with industries and government bodies for hands-on training and skill enhancement.
4. To promote sustainable engineering practices for a greener and more resilient future.

Scope

The Department of Civil Engineering at UEM Jaipur offers a wide range of opportunities for students, preparing them for successful academic and professional careers.

1. Career Prospects:
2. Graduates of UEM Jaipur can pursue careers in construction, urban planning, project management, and environmental consultancy.
3. Research & Development:
4. Students engage in cutting-edge research in areas such as earthquake-resistant structures, sustainable construction materials, and smart city development.

At UEM Jaipur, the Department of Civil Engineering is committed to nurturing competent professionals equipped to lead, innovate, and contribute towards a sustainable and forward-thinking future for the field.



Departmental Faculties



Subhro Chakraborty
Head of department
subhro.chakraborty@uem.edu.in



Sougata Banerjee
Assistant Professor
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Dr. Umesh Kumar Das
Assistant Professor
umesh.das@iem.edu.in



Dr. Vishwajeet Khan
Associate professor
vishwajeet.khan@uem.edu.in



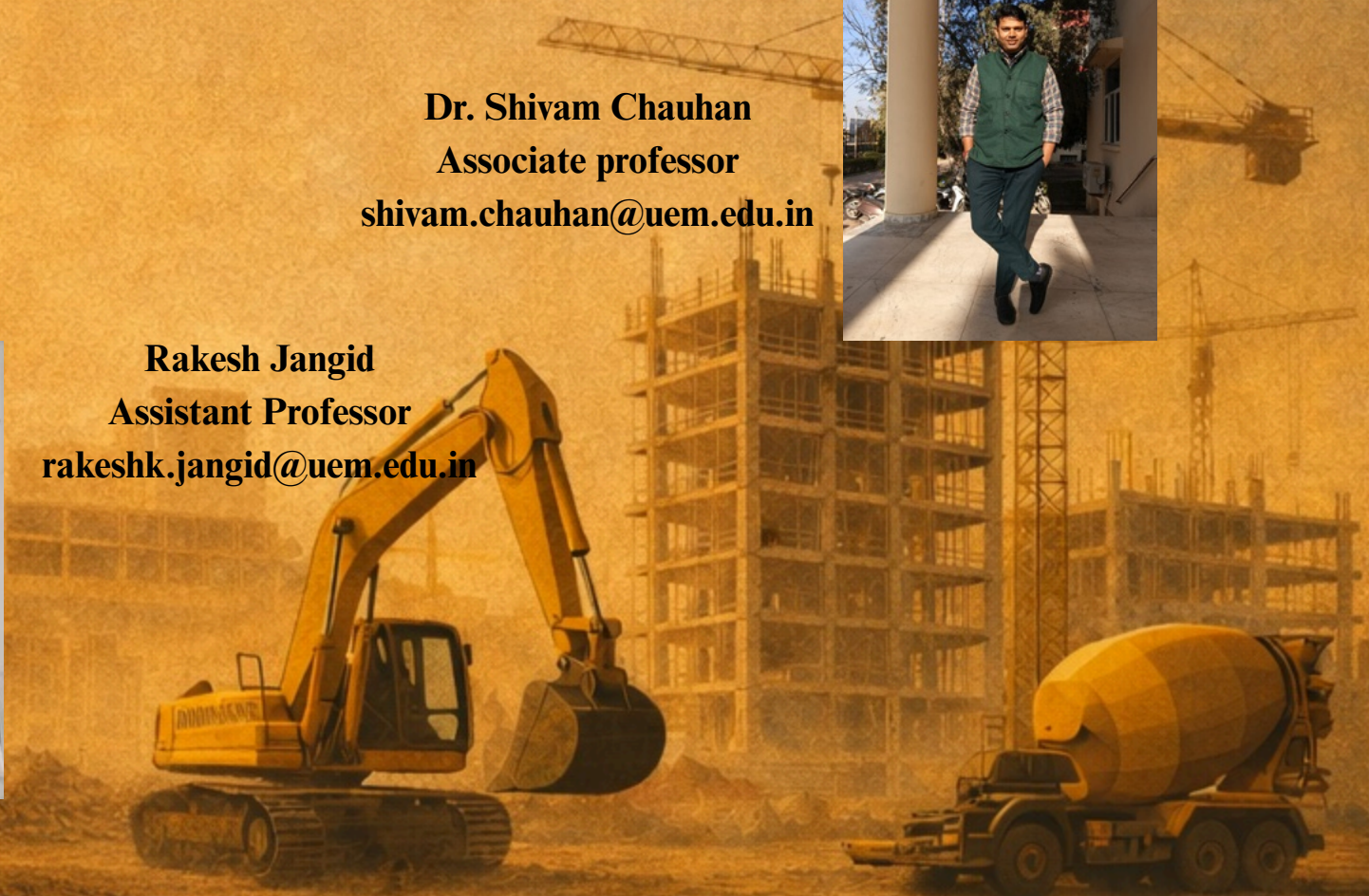
Varun Jangid
Assistant Professor
varun.jangid@uem.edu.in



Dr. Shivam Chauhan
Associate professor
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Rakesh Jangid
Assistant Professor
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Message from the Vice Chancellor's Desk



It gives me immense pleasure and satisfaction to express my appreciation for “The Evolution,” the departmental magazine published by the Department of Civil Engineering, University of Engineering and Management, Jaipur. I extend my heartfelt congratulations to everyone who has contributed their time, effort, and creativity in shaping this wonderful publication.

The magazine effectively showcases the academic endeavors of the Civil Engineering Department. Along with academic excellence, it highlights the collective achievements of both students and faculty members. It presents valuable insights into research activities, industrial trainings and visits, invited lectures, seminars, workshops conducted by eminent experts, and various academic and co-curricular events organised within the department and the university.

Furthermore, the magazine serves as an informative platform that reflects the latest trends and developments in the field of Civil Engineering.

I am confident that the department will continue to scale new heights of excellence in the years to come. In this journey, “The Evolution” will play a significant role in strengthening the bond among students, faculty, alumni, and all stakeholders.

Warm Regards,
Prof. (Dr.) Biswajoy Chatterjee
Vice Chancellor



Message from the Registrar's Desk



It gives me immense pleasure and satisfaction to express my appreciation for “The Evolution”, the magazine published by the Department of Civil Engineering, University of Engineering and Management, Jaipur.

I take this opportunity to congratulate all the faculty members and student members who have put in their sincere efforts towards the successful compilation and publication of this magazine. The department is committed to providing high-quality education and promoting meaningful research. In addition, the department regularly organizes industrial trainings and visits, as well as invited lectures, seminars, and workshops conducted by distinguished experts, to enhance the practical knowledge and professional skills of the students. I am proud to note that our students are consistently achieving new milestones both academically and professionally, at regional, national, and international levels.

I am confident that the department will continue to grow and attain new heights of excellence in the coming years. In this context, “The Evolution” will play a vital role in strengthening the bond and communication among all stakeholders.

Warm Regards,
Prof. (Dr.) Pradeep Kumar Sharma
Registrar



Message from Associate Dean(Academics)



It gives me immense pride and pleasure to present yet another issue of "The Evolution", a publication devoted to promoting and advancing civil engineering at our esteemed institution. This magazine marks an important milestone in our continuous endeavour to expand engineering knowledge, foster innovation, and enhance our understanding of the infrastructure that shapes our society. In a time of rapid technological advancements and changing societal demands, civil engineering continues to serve as a fundamental discipline, playing a crucial role in developing the systems and structures that support modern civilization.

"The Evolution" is more than just a magazine; it is a reflection of the expertise, creativity, and dedication that define our academic community. The publication brings together diverse perspectives, including research contributions, innovative designs, sustainable practices, and discussions on the challenges involved in creating resilient infrastructure. Each article showcases the enthusiasm and commitment of our faculty and students, who are working collectively to address the critical issues of our time.

I would like to extend my heartfelt appreciation to everyone who has contributed to making this publication a reality. Your sincere efforts and vision have made this initiative successful, and I am confident that "The Evolution" will serve as a valuable platform for learning, inspiration, and academic growth. I also thank you for your continued support in strengthening our university's mission. Together, we will continue to nurture a culture of innovation, excellence, and collaboration.

Warm Regards,
Prof. (Dr.) Mukesh Kumar Yadav
Associate Dean (Academics)



Message from Associate Dean(Engineering)



I am extremely delighted to express my sincere appreciation for the issue of the Civil Engineering Departmental magazine, "The Evolution". I would like to take this opportunity to congratulate all those who have contributed their dedicated efforts toward the successful compilation of this magazine, which truly reflects the department's diverse activities and academic excellence.

This publication serves as an excellent platform to showcase the technical knowledge and skills gained through workshops, industrial visits, and various technical interactions. Such a platform is highly valuable, as every individual contributes uniquely through their roles and experiences over time. Sharing these meaningful efforts not only highlights the contributors' achievements but also motivates and inspires others within the academic community.

I extend my best wishes for the continued success of "The Evolution" and appreciate the efforts of everyone involved in bringing out this wonderful initiative.

Warm Regards,
Prof. (Dr.) G. Uma Devi
Associate Dean (Engineering)



Message from Associate Dean(Research)



Dear Faculty Members, Researchers, and Students,
Civil Engineering is rapidly evolving with the integration of Artificial Intelligence (AI), Machine Learning (ML), and Soft Computing. These advanced computational approaches are redefining how we analyze, design, and manage infrastructure systems. From predictive modeling and structural health monitoring to intelligent transportation, construction automation, and sustainable urban development, these technologies are unlocking new possibilities for innovation and efficiency.

As a research-driven university, we must actively engage with this interdisciplinary transformation. We encourage our faculty and scholars to pursue collaborative research that combines domain expertise in Civil Engineering with data-driven and intelligent techniques. Emphasis on digital twins, smart materials, optimization algorithms, risk prediction, and resilient infrastructure will significantly enhance our academic contributions and industry relevance.

Our university remains committed to supporting impactful research initiatives, fostering cross-disciplinary partnerships, and facilitating funding opportunities. Our university is utilizing institutional resources, participate in skill-development programs, and mentoring students in emerging intelligent engineering tools.

We are working collectively to lead advancements that contribute to technological progress and sustainable societal development.

Sincerely,

Dr. Tapas Si

Associate Dean (Research)



Message from Head of the Department(CE)



I am delighted to connect with you through this edition, which celebrates the dynamic and continuously advancing domain of civil engineering. Our discipline plays a vital role in building resilient and sustainable communities, responding to contemporary demands while maintaining harmony with the environment. From developing earthquake-resistant infrastructure to integrating advanced construction technologies, civil engineers are shaping a future defined by safety, sustainability, and innovation.

In our department, we strive to foster not only academic excellence but also strong practical competence. Through collaborative projects, research endeavors, and active community engagement, our students are acquiring the technical knowledge and ethical values essential for contributing meaningfully to society.

As we move forward, I encourage every aspiring engineer to remain inquisitive, dedicated, and forward-thinking. Together, we can contribute to creating a world that is well-prepared to meet the challenges of tomorrow.

Warm regards,

Mr. Subhro Chakraborty

Assistant Professor

Head, Department of Civil Engineering



Faculty Insights

Huajiang Canyon Bridge – The World's Highest Road Bridge

By: Sougata Banerjee

The Huajiang Canyon Bridge, inaugurated in September 2025 in China's Guizhou Province, stands as the world's highest road bridge, soaring 625 m above the canyon floor. Stretching nearly 2.9 km with a 1,420 m main suspension span, it connects remote mountainous regions via the S57 Liuzhi–Anlong Expressway. Built in one of the most rugged terrains on earth, the project posed extreme engineering challenges, from constructing tall suspension towers on steep canyon edges to addressing high winds, thermal variations, and long-span aerodynamic stability. Engineers incorporated cutting-edge solutions such as embedded fiber-optic load cell cables for continuous structural health monitoring, ensuring real-time assessment of stress, deformation, and long-term performance. Despite its scale, the bridge integrates aesthetic and tourism-oriented features—most notably a glass-bottom walkway and a tower-top viewing deck—requiring additional structural considerations for human-induced vibrations, crowd loading, and safety.

The project's technical innovations emerged largely from the need to build in inaccessible terrain. Materials, equipment, and cable strands had to be transported through winding mountain roads, and erection relied on specialized cable-crane systems capable of spanning the canyon. The suspension system itself uses high-strength steel, corrosion-resistant coatings, and robust anchorage foundations drilled deep into the canyon rock. Aerodynamic studies ensured stability under strong winds at high altitude, while the structural design accounted for fatigue, temperature variation, and long-term durability.

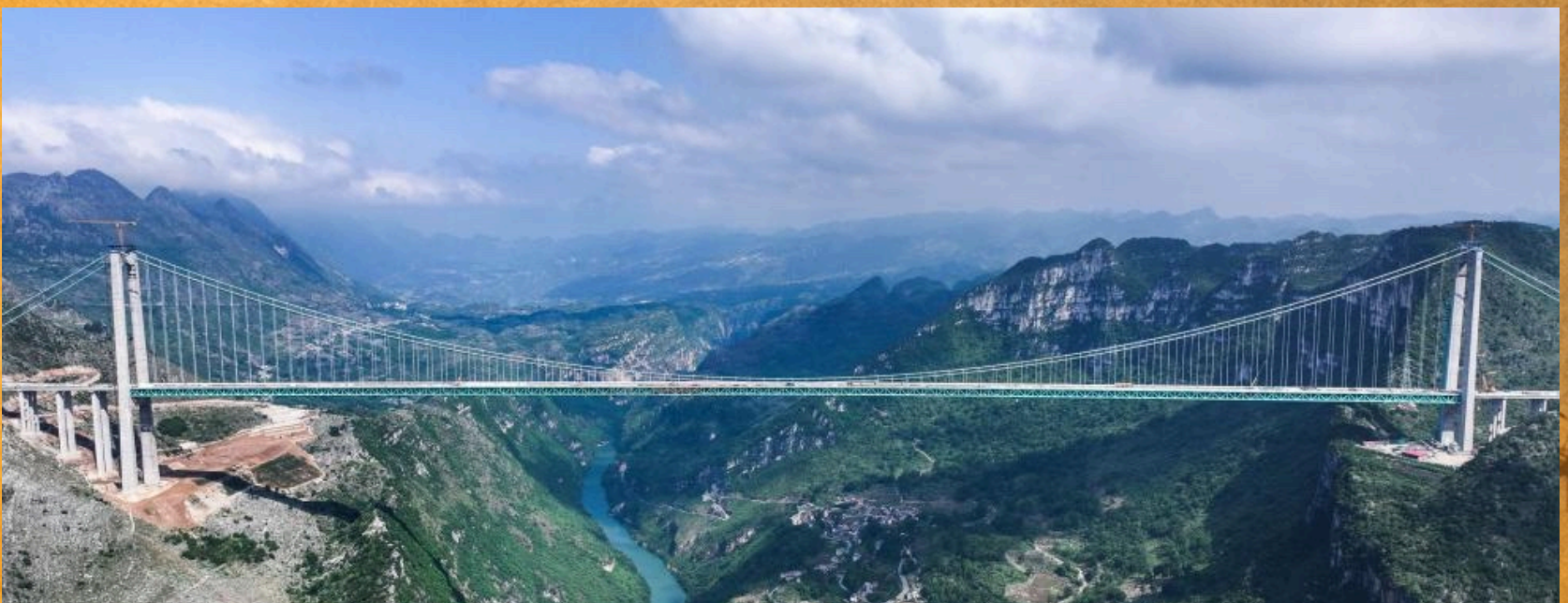


For civil engineers, the Huajiang Canyon Bridge offers valuable lessons.

Key learning includes:

- Advanced design skills: understanding long-span suspension behavior, wind–structure interaction, fatigue analysis, and dynamic load modeling.
- Geotechnical expertise: designing foundations on steep cliffs, mitigating slope instability, and managing construction risks in canyon environments.
- Material and monitoring knowledge: using high-performance cables, corrosion protection, and integrating fiber-optic SHM systems for predictive maintenance.
- Construction management skills: planning logistics for remote sites, ensuring worker safety at extreme heights, and coordinating multidisciplinary teams.
- Innovation mindset: combining functionality with tourism-oriented architectural elements without compromising structural performance.

Overall, the Huajiang Canyon Bridge demonstrates how modern civil engineering can push technical boundaries while simultaneously improving connectivity, stimulating regional development, and creating an engineering landmark. It stands as a powerful example for aspiring engineers—illustrating how creativity, data-driven design, and problem-solving in complex environments shape the infrastructure of the future.



Chenab Rail Bridge: A Landmark in High-Altitude Bridge Engineering

By: Dr. Vishwajeet Khan

The Chenab Rail Bridge, located in Jammu and Kashmir, is the world's highest railway bridge, rising approximately 359 m above the Chenab River. It is a key component of the Udhampur–Srinagar–Baramulla Rail Link (USBRL) project and represents a major achievement in bridge engineering under extreme Himalayan conditions. The bridge is a steel arch structure with a total length of about 1,315 m and a main span of 467 m. High-strength structural steel was adopted to achieve optimal strength-to-weight efficiency and long-term durability. The design accounts for high seismicity, wind speeds exceeding 250 km/h, and large temperature variations, supported by advanced wind tunnel testing and nonlinear seismic analysis.

Construction involved challenging foundations on steep, fractured rock slopes, requiring extensive geological investigations and slope stabilization measures. The arch was erected using incremental cantilever methods and cable-crane systems to ensure precision and safety over the deep gorge. The Chenab Rail Bridge stands as a benchmark for the design and construction of long-span bridges in complex terrain, showcasing the application of advanced structural analysis, construction technology, and durability-based design.



Industrial Visit to Design India Interior Expo 2025

On 29th August; 2025, Civil Engineering Department organised an Industrial Visit to Design India Interior Expo, 2025 held at **B.M. Birla Auditorium, Jaipur**. The expo showcased a range of materials and innovations in the field of Interior design and Architecture. Students had the opportunity to engage with Industry professionals and observe the latest trends.



World Ozone Day in collaboration with the Department of Environment and Climate Change at Rajasthan International Centre (RIC), Jaipur.

University of Engineering and Management, Jaipur along with State Pollution Control Board has celebrated the World Ozone Day, 2025 in collaboration with the Department of Environment & Climate Change (DoE&CC).

Date: September 16, 2025

The programme focussed on the theme of global efforts to protect the ozone layer and raise awareness about sustainable environmental practices.

Chief guests at International Ozone Day, 2025

1. Dr. RAVIKUMAR SURPUR, IAS (Chairman, Rajasthan State Pollution Control Board, Jaipur).
2. Pavan Kumar Upadhyay (Principal Chief Conservator of Forests Administration & Coordination Rajasthan).
3. Shri Vijai N, IFS (Member Secretary of the Rajasthan Pollution Control Board (RSPCB), Member Secretary, State Environmental Impact Assessment Authority (SEIAA).
4. Shri Anand Kumar, IAS (Additional Chief Secretary (ACS) Forest, Environment, and Climate Change Department in Rajasthan).



Jaipur, Rajasthan, India
Bhamashah State Data Centre Block-c, Bhamashah State
Data Centre, Jhalana Doongri, Jaipur, Rajasthan 302017, India



Hands on Learning Workshop on Latest Design Tools in Civil Engineering.

Date: 08.08.2025

The Department of Civil Engineering, UEM Jaipur, organized an insightful workshop on "No-Code AI Application Development for Real-World Problem Solving."

The session highlighted the growing relevance of AI in engineering and was well received for its interactive and practical approach.



Workshop and Competition named Bridge Builder Bonanza ‘Build a bridge and experience the real testing.’

Date: 13.09.2025

The students were given Popsicle and glue. They were shown a tutorial video. They made different types of bridges with Popsicle and glue. The bridges were then tested with different loading intensities.

The students learned the concept of Point Loading and Distributed Loading on Popsicle Stick Bridge. Gradually the loading was increased and the students understood the effect of sudden failure and ductile failure. They had a clear idea about the connections involved in making a bridge. They joined the Popsicle sticks with glue and understood the concept of making a joint/connection to distribute the load. It was an innovative way to make the students understand the basics of loading and connections.



The poster for 'Bridge Builder Bonanza' features logos for UEM (University of Engineering & Management), IGBC, and a stylized bridge icon. It includes the text 'BRIDGE BUILDER BONANZA' and 'BUILD A BRIDGE AND EXPERIENCE THE REAL TESTING!'. The organizers are listed as the Department of Civil Engineering at UEM, Jaipur. Student coordinators are Vinay, Abhimaan, Sandeep, and Sanjay. Faculty coordinators are Prof. Subhro Chakraborty, Prof. Sougata Banerjee, Prof. Varun Jangid, and Prof. Rakesh Jangid. A QR code is provided for registration.

UEM
UNIVERSITY OF ENGINEERING & MANAGEMENT
Good Education, Good Jobs

IGBC
Indian Green Building Council

BRIDGE BUILDER BONANZA

BUILD A BRIDGE AND EXPERIENCE THE REAL TESTING!

ORGANIZED BY
DEPARTMENT OF CIVIL ENGINEERING
UNIVERSITY OF ENGINEERING & MANAGEMENT, JAIPUR

STUDENT COORDINATORS:
VINAY (9460321643) , ABHIMAAN (9057372120)
SANDEEP (8824294346) , SANJAY (9216410780)

FACULTY COORDINATORS:
PROF. SUBHRO CHAKRABORTY
PROF. SOUGATA BANERJEE
PROF. VARUN JANGID
PROF. RAKESH JANGID

REGISTER HERE!



Placements

PLACEMENTS



Shubham Jain
B.Tech. (Civil)
SCHWING Stetter (I) Pvt. Ltd.



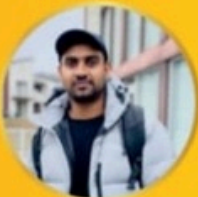
Rajesh Kumar
B.Tech. (Civil)
Asahi India Glass Ltd.



Gaurav Khedar
B.Tech. (Civil)
Asahi India Glass Ltd.



Ankita Choudhary
Imperial College, London



Suraj Mandal
Southern Illinois University,
Edwardsville, US



Kamlesh Gurjar
B.Tech. (Civil)
Anant Infra Group



Pooja Arya
B.Tech. (Civil)
Anant Infra Group



Mr. Vishal Meel
B.Tech. (Civil)
Kinlong Hardware (I) Pvt. Ltd.



Anwesha Banerjee
McGill University, Canada

START UPS



Nainesh Pradhan
The Home Destinations



Mohit Saini
Saini Solar Energy



Mohit Kasliwal
KCD Kasliwal Construction
& Design



Sunil Kumawat
Civil Engineer



Kamal Kr. Shekhawat
Just Design

DEPARTMENT OF CIVIL ENGINEERING

PLACEMENTS



Shubham Jain
B.Tech. (Civil)
SCHWING Stetter (I) Pvt. Ltd.



Rajesh Kumar
B.Tech. (Civil)
Asahi India Glass Ltd.



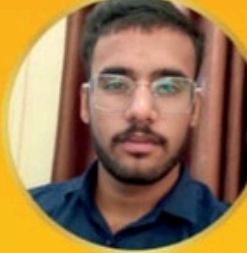
Gaurav Khedar
B.Tech. (Civil)
Asahi India Glass Ltd.



Kamlesh Gurjar
B.Tech. (Civil)
Anant Infra Group



Pooja Arya
B.Tech. (Civil)
Anant Infra Group



Mr. Vishal Meel
B.Tech. (Civil)
Kinlong Hardware (I) Pvt. Ltd.

Higher Studies

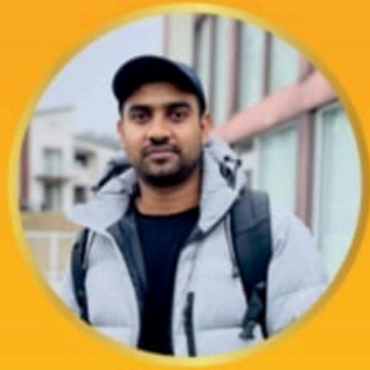
DEPARTMENT OF CIVIL ENGINEERING

Civil Engineering students advanced their education by enrolling in prestigious foreign universities...

HIGHER STUDIES



Ankita Choudhary
Imperial College,
London



Suraj Mandal
Southern Illinois University,
Edwardsville, US



Anwesha Banerjee
McGill University,
Canada

SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE

August 24, 2023

Student ID: 800790816

Suraj Mandal
Kewatani Sahidnagar 8 Dhamusha
Dhanusha
Nepal

Dear Suraj:

Congratulations on your approval to graduate studies at Southern Illinois University Edwardsville for Spring 2024. You should be proud of your academic accomplishments, and I look forward to welcoming you to campus as part of the SIUE community.

Enclosed are various documents that will be of assistance as you prepare to study at SIUE. To expedite visa processing, your Form I-20 is included. Once you have obtained your student visa, please inform us that you will be attending as soon as possible. Remember that your admission is based on your academic record to date and is contingent upon successful completion of any coursework currently in progress.

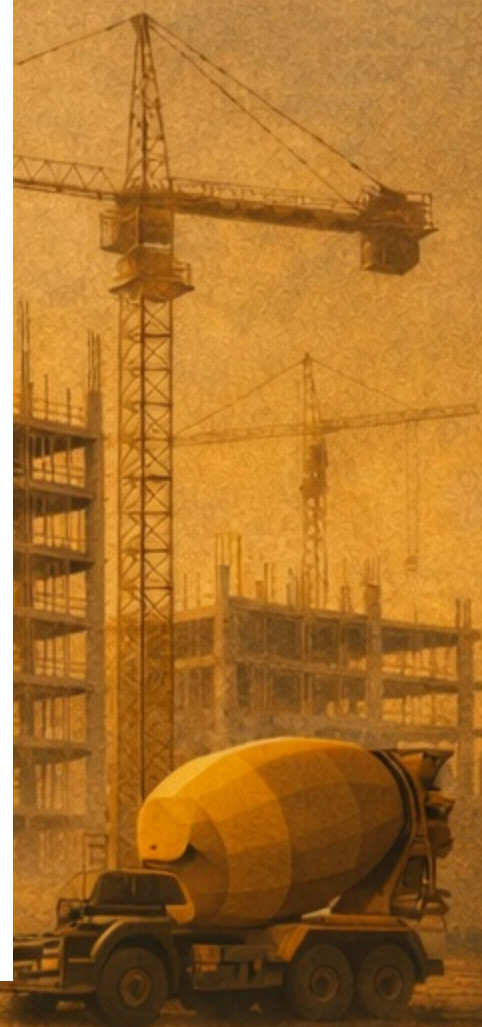
Before class registration can be authorized, you must provide the following original document(s): official University of Engineering and Management Jaipur bachelor's degree diploma. These items must be presented to the Office of Graduate and International Admissions upon your arrival on campus.

You can now activate your student ID and e-ID, which provide access to many services at SIUE. To activate your ID online, go to CougarNet (siue.edu/cougarnet) and enter your student ID number, which is listed at the top of this letter. Your temporary pin number is your birthdate, in the following format: MMDDYY. Use the enclosed instruction sheet to activate your e-ID. I encourage you to visit Blackboard (bb.siue.edu) and browse the Graduate Students tab of *SIUE 101*, for tools to help you succeed in completing your degree. You will find information about parking, registration, childcare, graduate assistantships, graduate catalog and more.

Congratulations again on your admission to graduate school. Please check your SIUE email frequently for additional information, and feel free to contact us with any questions at 618-650-3705 or intladm@siue.edu. I hope you are as excited as we are to have you join the SIUE community.

Sincerely,

Jerry B. Weinberg
Dean, Graduate School



Government Jobs



कार्यालय नगरपालिका मालपुरा जिला टोंक (राज.)

क्रमांक - न.पा.मा./संस्थापन/2025-26/७५२

दिनांक - 06/02/2026

कार्यालय आदेश

श्रीमान आयुक्त एवं शासन सचिव महोदय, स्वायत्त शासन विभाग राजस्थान जयपुर के आदेश क्रमांक एस्टे/एम/एफ 10 (Rec.) (26)/आरएमएस (टी)/डीएलपी/25/1561 दिनांक 04.02.2026 के द्वारा श्री महेन्द्र कुमार पुनिया कनिष्ठ अभियन्ता (सिविल) का पदस्थापन नगरपालिका मालपुरा में कनिष्ठ अभियन्ता (सिविल) के पद पर किया गया है। अतः उक्त आदेश की पालना में श्री महेन्द्र कुमार पुनिया कनिष्ठ अभियन्ता (सिविल) को नगरपालिका मालपुरा में आज दिनांक 06.02.2026 को नव्यान्व पूर्व ज्वाईनिंग दी जाती है।

अभिजापी अधिकारी
नगरपालिका मालपुरा (राज.)
दिनांक - 06/02/2026

क्रमांक - न.पा.मा./संस्थापन/2025-26/७५३-७५७

प्रतिलिपि :-

1. श्रीमान आयुक्त एवं शासन सचिव महोदय, स्वायत्त शासन विभाग राजस्थान जयपुर
2. श्रीमान जिला कलेक्टर महोदय, टोंक
3. श्रीमान उपनिदेशक (क्षेत्रीय) महोदय, स्थानीय निकाय विभाग, अजमेर
4. श्रीमान अध्यक्ष महोदय, नगरपालिका मालपुरा
5. श्री महेन्द्र कुमार पुनिया कनिष्ठ अभियन्ता (सिविल) नगरपालिका मालपुरा
6. संस्थापन शाखा नगरपालिका मालपुरा
7. सुरक्षित पत्रावली

अभिजापी अधिकारी
नगरपालिका मालपुरा (राज.)
नगर पालिका, मालपुरा (राज.)



Learning beyond classroom



Jigsaw Bricks



Jigsaw Bricks



Water of Infinity



Seismic Response of a Bridge



Civil Engineering Projects

Seismic Response of a Skyscraper



This project analyzes the seismic response of a skyscraper, a high-rise building over 150 meters tall with more than 40 floors. The design features a steel framework with suspended curtain walls, reducing wind load through angular curves. The building's increasing slab area from top to bottom enhances its earthquake resistance by evenly distributing forces. Intermediate hanging structures connect the units, improving stability. The footing covers the entire base, and the floor area increases as it moves downward, maximizing the ground-level space.

Home Automation System



This project focuses on a home automation system that allows users to control appliances in their home or office remotely using a Bluetooth-enabled smartphone. The system is particularly beneficial for elderly and physically challenged individuals, offering ease of use. By reducing the need for traditional plastic switches, it is an eco-friendly solution. Additionally, the system enhances security by embedding a password feature, preventing unauthorized access.



Students milestones in courses and events



NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)



Skill India
शरीर मेरू-गुण मेरू

This certificate is awarded to
KAMLESH GURJAR
for successfully completing the course

Geotechnical Engineering Laboratory

with a consolidated score of **49** %

Online Assignments	19.17/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **456**

Jul-Aug 2024
(4 week course)



Prof. Sridhar Iyer
Head CDEEP & NPTEL Coordinator
IIT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL24CE03013720K084

To verify the certificate



No. of credits recommended: 1 of 2



NPTEL Online Certification
(Funded by the MoE, Govt. of India)



This certificate is awarded to
MANISH JANGID
for successfully completing the course

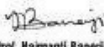
Environmental Science

with a consolidated score of **51** %

Online Assignments	19.63/25	Proctored Exam	31.25/75
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Total number of candidates certified in this course: **1238**

Jul-Oct 2023
(12 week course)



Prof. Kaimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23HS1505737801701

To verify the certificate



No. of credits recommended: 3 or 4



NPTEL Online Certification
(Funded by the MoE, Govt. of India)



Elite

This certificate is awarded to
AJAY KUMAR SAH
for successfully completing the course

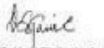
Plastic Waste Management

with a consolidated score of **77** %

Online Assignments	23.13/25	Proctored Exam	53.64/75
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Total number of candidates certified in this course: **3166**

Aug-Oct 2022
(8 week course)



Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CT72534280124

To validate the certificate



No. of credits recommended: 2 or 3



NPTEL Online Certification
(Funded by the MoE, Govt. of India)



Elite

This certificate is awarded to
RAJKUMAR YADAV
for successfully completing the course

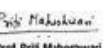
Air Pollution and Control

with a consolidated score of **63** %

Online Assignments	24.38/25	Proctored Exam	39/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **7382**

Jan-Apr 2023
(12 week course)



Prof. Priy Maheshwari
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL23CE14553791356

To validate the certificate



No. of credits recommended: 3 or 4



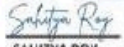
CERTIFICATE OF PARTICIPATION



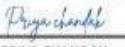


This certificate is proudly presented to
MANISH JANGID

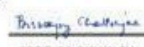
for having successfully attended a one-day Tech Conference in Jaipur organized by Eduhub Community along with UEM Jaipur ACM Student Chapter held on 22nd August 2022. We hope you learned a lot from this In-person Conference, keep learning & keep contributing.



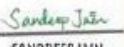
SAHITYA ROY
Co-Founder of Eduhub



PRIYA CHANDAK
Co-Founder of Eduhub



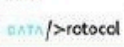
PROF. DR. BISWAJOY CHATTERJEE
Vice-Chancellor
UEM Jaipur



SANDEEP JAIN
Founder & CEO
GeeksforGeeks



GeeksforGeeks



Verify at <https://eduhub-github.com/certificate-verify> using QR Code: 4751-4724-8484



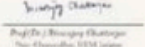
CERTIFICATE OF PARTICIPATION
PROUDLY PRESENTED TO



Manish Jangid

for attending "AARAMBH" the inauguration event of
THE SPEECH SOCIETY, UEMJ

FEBRUARY 2ND, 2023



Prof. Dr. Biswajoy Chatterjee
Vice-Chancellor, UEM Jaipur



Prof. Dr. Mahesh Kumar
Faculty Coordinator





Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)



TOPPER

5%

This certificate is awarded to
SHUBHAM JAIN
for successfully completing the course

Building Materials and Composites
with a consolidated score of **75** %

Online Assignments	24.13/25	Proctored Exam	51/75
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Total number of candidates certified in this course: **430**

Dr. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Sep 2022
(8 week course)

Prof. Debjani Chakraborty
NPTEL Coordinator
IIT Kharagpur



Roll No: NPTEL22AR14513160519

To validate the certificate

No. of credits recommended: 2 or 3



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)



TOPPER

5%

This certificate is awarded to
SHUBHAM JAIN
for successfully completing the course

Basic Construction Materials
with a consolidated score of **76** %

Online Assignments	24/25	Proctored Exam	51.75/75
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Total number of candidates certified in this course: **975**

Dr. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Apr 2022
(12 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



Roll No: NPTEL22CE40543571162

To validate and check scores: <https://npTEL.ac.in/moc>



Apr 15, 2024

SHUBHAM JAIN
has successfully completed
Foundations of Cybersecurity
an online non-credit course authorized by Google and offered through Coursera



Anandha Praveen
Executive Director
Google India Pvt. Ltd.

<https://coursera.org/share/604063952A2D>
Verify if the certificate holder has completed the course or not by visiting the link.



Apr 18, 2024

POOJA ARYA
has successfully completed
Play It Safe: Manage Security Risks
an online non-credit course authorized by Google and offered through Coursera



Anandha Praveen
Executive Director
Google India Pvt. Ltd.

<https://coursera.org/share/604063952A2D>
Verify if the certificate holder has completed the course or not by visiting the link.



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)



TOPPER

5%

This certificate is awarded to
POOJA ARYA
for successfully completing the course

Introduction to Civil Engineering Profession
with a consolidated score of **76** %

Online Assignments	24.58/25	Proctored Exam	51/75
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Total number of candidates certified in this course: **1945**

Dr. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Mar 2024
(8 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



Roll No: NPTEL24CE45S352800081

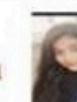
To verify the certificate

No. of credits recommended: 2 or 3



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)



TOPPER

5%

This certificate is awarded to
POOJA ARYA
for successfully completing the course

Introduction to Programming in C
with a consolidated score of **64** %

Online Assignments	17.38/25	Programming Exam	25/25	Proctored Exam	21.68/50
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Total number of candidates certified in this course: **1728**

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2022
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Roll No: NPTEL22CS40513570321

To validate and check scores: <https://npTEL.ac.in/moc>



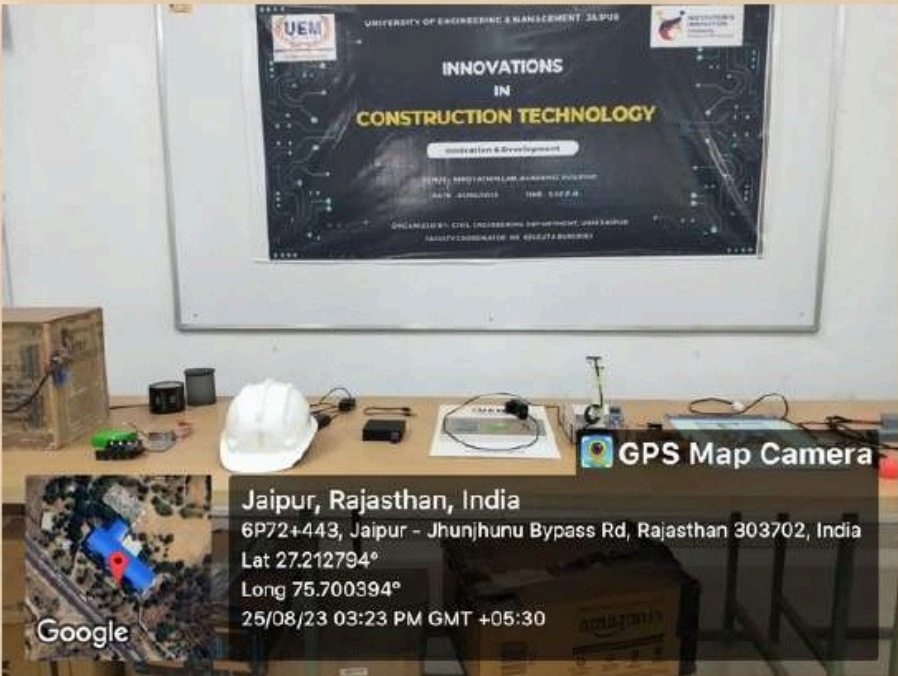
Faculty awards

The faculty members of department of civil engineering at UEM Jaipur continue to make the institution proud by earning prestigious awards and recognitions for their excellence in research and teaching. Below is a list of notable accolades received by our esteemed educators:

1. Prof. Dr. Vishwajeet Khan, Associate Professor, received the Chancellor's Award for Excellence in Research in 2023.
2. Prof. Dr. Shivam Chauhan, Associate Professor, was honored with the Chancellor's Award for Excellence in Research in 2023.
3. Prof. Sougata Banerjee, Assistant Professor, earned the Chancellor's Award for Excellence in Research in 2023.
4. Prof. Varun Jangid, Assistant Professor, was awarded the Chancellor's Award for Excellence in Teaching in 2025.
5. Prof. Varun Jangid, Assistant Professor, was awarded the Chancellor's Award for Excellence in Teaching in 2023.
6. Prof. Dr. Vishwajeet Khan, Associate Professor, achieved the Chancellor's Award for Excellence in Research in 2024.
7. Prof. Dr. Shivam Chauhan, Associate Professor, was again recognized with the Chancellor's Award for Excellence in Research in 2024.
8. Prof. Subhro Chakraborty, Assistant Professor, received the Chancellor's Award for Excellence in Teaching in 2024.
9. Prof. Varun Jangid, Assistant Professor, earned the Chancellor's Award for Excellence in Teaching in 2024.
10. Prof. Sougata Banerjee, Assistant Professor, earned the Chancellor's Award for Excellence in Teaching in 2024.

These accolades underscore the dedication and expertise of our faculty, who are not only mentors to their students but also contributors to academic excellence and innovation. Their achievements inspire the entire UEM Jaipur community to strive for greater heights.





INNOVATE



INTEGRATE



INSPIRE





UEM Jaipur, in collaboration with other prestigious institutions participated in a Master Session on Water Harvesting and Conservation. The session was organized on March 22nd, 2024, as part of the World Water Day celebrations.

The Master Session aimed to raise awareness about the critical importance of water conservation and sustainable water management practices. Experts from various fields discussed innovative approaches to water harvesting, efficient water usage, and addressing water scarcity challenges.



The University of Engineering & Management (UEM) Jaipur recently hosted an event titled “Innovations in Construction Technology.” Organized by the Civil Engineering Department on August 25th, 2023, at 3:30 PM in the Innovation Lab, this event aimed to highlight the latest advancements and trends in the construction industry.

The event was coordinated by Mr. Sougata Banerjee, a faculty member in the Civil Engineering Department. His expertise in the field of construction technology ensured the event’s success and provided valuable insights to the participants.

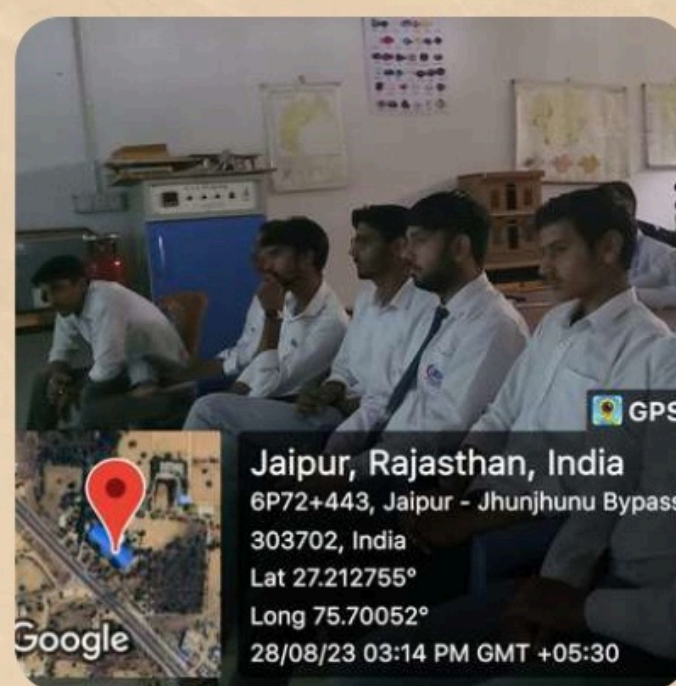




The University of Engineering & Management (UEM) Jaipur recently organized a workshop on “Start-up Opportunities in Civil Engineering Using BIM.” The event took place on August 28th, 2023, at 3:30 PM in the Academic Building.

The workshop was organized by Mr. Sougata Banerjee, a faculty member in the Civil Engineering Department. He provided valuable insights into the applications of BIM technology in the construction industry and discussed potential business opportunities for civil engineers.

The workshop covered various aspects of BIM, including its applications in design, construction, and facility management. It also explored potential business opportunities and entrepreneurial ventures that can be initiated using BIM technology.



UNIVERSITY OF ENGINEERING & MANAGEMENT (UEM), JAIPUR
 Campus: "Gurukul", Udaipuria Road, 8 Kms. from Chomu on Sikar Road, Jaipur-303807 (Rajasthan) | www.uem.edu.in

Session on
"How to plan for Start Ups and Legal and Ethical Steps."

Organised By:
Civil Engineering Department in association with IIC and E Cell

Date: **04.04.2024** | Time **11:00 AM - 12:00 PM**
 Venue: **Seminar Hall (1st Floor)**

Resource Person: **Mr. Kamal Kumar Kumawat; Co-Founder: Younick Design Studio: AN ARCHITECTURAL and CONSTRUCTION BASED FIRM.**

Short Biography: Mr. Kamal Kumar Kumawat has completed BTech, Civil Engineering from UEM Jaipur. He started his own start up Younick Design STUDIO: AN ARCHITECTURAL AND CONSTRUCTION BASED FIRM, in 2019. Currently he is running more than 25 projects of Architecture and Civil, Interior Designing etc. Younick DESIGN Studio is having its office in CIVIL LINES Jaipur.

On April 4, 2024, the Civil Engineering Department at the University of Engineering & Management (UEM), Jaipur, in collaboration with the Institution's Innovation Council (IIC) and the Entrepreneurship Cell (E-Cell), hosted a session titled "How to Plan for Startups and Legal and Ethical Steps."

The event took place in the Seminar Hall on the first floor and attracted students and faculty interested in entrepreneurship and innovation in civil engineering and beyond.

The session featured Mr. Kamal Kumar Kumawat, an esteemed alumnus of UEM Jaipur and the co-founder of Younick Design Studio, an architectural and construction firm.



Jaipur, Rajasthan, India
 6872164X, Jaipur, Rajasthan 303702, India





UNIVERSITY OF ENGINEERING & MANAGEMENT (UEM), JAIPUR
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Session on
 Innovation/Prototype Validation; Converting Innovation into a Start Up

Organised By:
Civil Engineering Department in association with IIC and E Cell

Date: **06.08.2024** | Time **10:00 AM onwards**
 Venue: **Seminar Hall**

Resource Person: **Ms. Srishti Saini**



Short Biography: Srishti Saini is a highly accomplished engineer and educator with extensive experience in the fields of civil engineering, transportation engineering, and artificial intelligence (AI). Her M.Tech dissertation, conducted at CSIR-CRRI, focused on developing an AI-enabled drowsiness detection system, showcasing her ability to integrate AI with transportation engineering. Currently, Srishti is pursuing a Ph.D. at CSIR-CRRI, specializing in the application of AI for road safety. Alongside her doctoral studies, she works as a Project Engineer in AI-ML and a Trainer

FREE REGISTRATION

The University of Engineering & Management (UEM), Jaipur, conducted an engaging session titled “Innovation/Prototype Validation: Converting Innovation into a Start-Up“ on 6th August 2024, organized by the Civil Engineering Department in collaboration with the Institution’s Innovation Council (IIC) and E-Cell.

The session featured Ms. Srishti Saini, a distinguished engineer and educator with expertise in civil engineering, transportation, and artificial intelligence (AI). Her M.Tech research at CSIR-CRRI focused on developing an AI-based drowsiness detection system, showcasing her innovative capabilities. Currently pursuing her Ph.D., Ms. Saini is also a project engineer specializing in AI and machine learning applications.

This session provided attendees with insights into transforming innovative ideas into successful start-ups, aligning with UEM Jaipur’s mission to nurture creativity and entrepreneurship among students.



This session at UEM Jaipur was a resounding success, marked by enthusiastic participation from students and faculty alike. The insightful talk by Ms. Srishti Saini inspired attendees to explore the potential of innovation and entrepreneurship. Below are some memorable moments captured during the event.





Department of Civil Engineering
(IGBC Student Chapter)
organizing



मंथन : A Green Talk

"GREEN EDUCATION- SUSTAINABILITY COURSES FOR INSTITUTIONS"

EMINENT SPEAKERS



MR. DHIRENDRA MADAN
(CHAIRMAN)
IGBC Jaipur Chapter



MR. ANAND MISHRA
(CHAIRMAN)
IGBC Jaipur Chapter



DR. SHIVRAJ DHAKA
(DR. COUNSELLOR)
CET - IGBC

PANELISTS



DR. MANOJ GUPTA
Prof. President,
Pragati U. Jaipur



PROF. (DR.) PRADEEP KUMAR SHARMA
Regent,
University of Engineering & Technology (UET)



DR. MADHURA YADAV
Dean Faculty of Design &
Director School of Architecture and Design

MENTORS



MR. SURAJAM MEEL
CHAIRMAN



MR. ANUP MEEL
DIRECTOR



DR. S.S. SURANA
DIRECTOR ACADEMIC



MR. SACHIN MEEL
REGENT



DR. A.S. PACHAR
PRINCIPAL



DR. K.K. JAIN
DEAN



DR. S.S. SHARMA
PROFESSOR

On 1st November 2023, at SKIT, Jaipur, “Manthan: A Green Talk” was organized by the Department of Civil Engineering in collaboration with the IGBC Student Chapter. Centered on the theme “Green Education - Sustainability Courses for Institutions,” the event highlighted the crucial role of integrating sustainability into education to nurture environmentally responsible leaders of tomorrow.

The event featured **Prof. (Dr.) Pradeep Kumar Sharma, Registrar** of UEM Jaipur, as a distinguished panelist, who emphasized the importance of green practices in academia. **Mr. Subhro Chakraborty, (HOD)** and **Mr. Shubham Jain**, an enthusiastic student from UEM Jaipur, actively contributed to the discussions, showcasing the institution’s dedication to fostering sustainable practices.

The event also included thought-provoking presentations, panel discussions, and interactive sessions that engaged participants in exploring innovative approaches to green education.

The Civil Engineering Department at UEM Jaipur proudly organized an exhilarating event, **Bridge Builder Bonanza on 14-09-2024**, as part of its technical fest. This innovative competition was a true test of engineering prowess, teamwork, and creativity, where participants demonstrated their skills by designing and constructing model bridges.

The event witnessed enthusiastic participation from approximately 35 teams, comprising talented students eager to showcase their ingenuity. Each team was tasked with building a bridge model that adhered to specific technical requirements while being tested for durability, efficiency, and aesthetics. The competitive spirit, combined with the joy of hands-on learning, made the event a grand success.

The event was coordinated by the dedicated student team of **Shubham Jain** and **Pooja Arya**, whose meticulous planning ensured smooth execution. Faculty coordinators **Mr. Subhro Chakraborty (Head of Department)** and **Mr. Varun Jangid (Assistant Professor)** provided invaluable guidance and support, making the event both enriching and inspiring for all participants.

Bridge Builder Bonanza highlighted the importance of structural engineering and creative problem-solving, offering students an engaging platform to apply their theoretical knowledge to practical challenges. The event reinforced the commitment of the Civil Engineering Department at UEM Jaipur to fostering innovation and technical excellence among its students.

BRIDGE BUILDER BONANZA



PROF. SUBHRO CHAKRABORTY
HEAD OF DEPARTMENT
CIVIL ENGINEERING



Student co-ordinator
SHUBHAM JAIN (993201543)
POOJA ARYA (1062640407)

Faculty co-ordinator
PROF. SUBHRO CHAKRABORTY
PROF. VARUN JANGID

REGISTER HERE



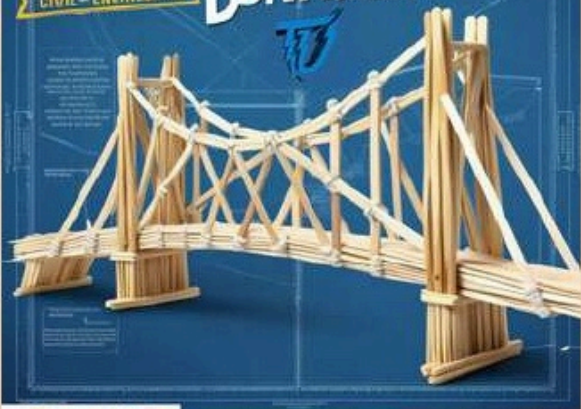
INSTITUTION'S INNOVATION COUNCIL
(Memory of Education Initiatives)



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Good Education, Good Jobs

BRIDGE BUILDER BONANZA

CIVIL - ENGINEERING



PROF. SUBHRO CHAKRABORTY
HEAD OF DEPARTMENT
CIVIL ENGINEERING



Student co-ordinator
SHUBHAM JAIN (993201543)
POOJA ARYA (1062640407)

Faculty co-ordinator
PROF. SUBHRO CHAKRABORTY
PROF. VARUN JANGID

REGISTER HERE



INSTITUTION'S INNOVATION COUNCIL
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Good Education, Good Jobs



The **Bridge Builder Bonanza** was not just a competition—it was a celebration of creativity, teamwork, and engineering excellence. Here are some captivating moments from the event, capturing the enthusiasm of the participants, the precision of their work, and the thrill of competition. These images speak volumes about the dedication and innovative spirit of our budding civil engineers at UEM Jaipur.

Let the visuals take you on a journey through the highlights of this remarkable event!



Advisory Board

Subhro Chakraborty

Head of department

Sougata Banerjee

Assistant Professor

Dr. Umesh Kumar Das

Assistant Professor

Dr. Vishwajeet Khan

Associate professor

Dr. Shivam Chauhan

Associate professor

Rakesh Jangid

Assistant Professor

Varun Jangid

Assistant Professor





UNIVERSITY OF ENGINEERING & MANAGEMENT
Good Education, Good Jobs

DEPARTMENT OF CIVIL ENGINEERING
UNIVERSITY OF ENGINEERING & MANAGEMENT, JAIPUR

Website:

<https://civiluemj.wordpress.com>

Email:

civiluemjaipur@gmail.com

