



भगवंत विश्वविद्यालय

DEPARTMENT OF CIVIL ENGINEERING

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About Civil Engineering

Civil engineers play a crucial role in creating the infrastructure necessary for the transportation of goods and people, along with the construction of various buildings where we reside, work, and enjoy leisure activities. Their responsibilities include developing solutions for clean drinking water, managing waste, addressing hazards, and implementing measures to safeguard against natural calamities. In essence, civil engineers are involved in the design,

building, and upkeep of nearly all aspects of our society.

Our department aims to develop skilled, disciplined, and high-quality engineers and administrators. We create a supportive academic environment to help students reach their full potential. In addition to regular classes, we provide information on current industry trends through seminars and educational trips.

Courses Offered:

Course	Duration	Specialization	Eligibility
Ph.D.	Min. 3 Yrs.	Civil Engineering	M. Tech with minimum 55% marks in relevant Stream
M. Tech	2 Yrs.	Environmental Engg.	B.Tech. or an equivalent degree in the related branch of Engg. or M.Sc. degree in related branch with a minimum of 55% marks from a recognized university
		Construction Engg	
		Structural Engg	
		Transportation Engg	
B. Tech	4 Yrs.	Civill Engineering	Intermediate / Higher Secondary (10+2) PCM with percentage as per AICTE
	3 Yrs.	Civil Engineering	Engg. Diploma / B. Sc. PCM with percentage as per AICTE
Diploma	3 Yrs.	Civil Engineering	10 th Passed
	2 Yrs.	Civil Engineering	12 th PCM / ITI (2 Yrs.)

Message From The Head of Department

To complement our academic programme, the department is fortunate to boast state-of-the-art laboratories and devoted academic and technical staff. Our department and its knowledgeable faculty provide practice-based education, ensuring that our students are well-prepared for a successful and rewarding profession. Our graduates are remarkably well-prepared for employment, project management, and professions on the fast track to new heights. We provide a globally acclaimed, integrated civil engineering programme that assists students in achieving their professional goals.



ER. SHREYANCE SHARMA

Words From Faculty Corner

Civil engineering, the cornerstone of modern infrastructure, shapes the world we live in by designing and constructing essential structures. This field blends creativity with technical expertise to enhance safety, sustainability, and functionality in our built environment. At our university, civil engineering students and faculty are pioneering innovative solutions to tackle modern challenges, ensuring safer, more resilient, and sustainable environments for future generations.



ER. GULZAR AHMAD

The Civil Engineering Department is dedicated to enhancing the academic and personal skills of students, equipping them to excel as skilled engineers in society. By organizing a range of events and activities during the academic year, the department offers students chances to demonstrate and improve their abilities, fostering their overall development and progress.



ER. BHARAT PHULWARI

The department aims to thoroughly train our students to become civil engineers who can competently, collaboratively, and ethically serve society as planners, designers, constructors, and operators of the built environment.



ER. RAM KUMAR GODARA

UPCOMING PROGRAMMES AND EVENTS

Our department is thrilled to unveil a series of forthcoming programs aimed at enhancing the academic and professional journeys of our students. We have lined up a diverse array of seminars with industry experts and academic leaders who will delve into cutting-edge topics and current trends. These sessions offer students a prime opportunity to interact with professionals and acquire knowledge that goes beyond the confines of the

classroom. Furthermore, we are arranging visits to prominent companies, enabling students to witness firsthand the real-world applications of their studies and to connect with industry professionals. Alongside these initiatives, we have a host of other activities in the pipeline, such as workshops and collaborative projects, all geared towards nurturing a vibrant and interactive learning environment. This includes a series of seminars with industry experts and an industrial tour that guarantees hands-on experience and valuable insights into current industry practices.

Collaborative Projects and Research Opportunities

We are committed to promoting collaborative projects and research among our students and faculty. Several interdisciplinary projects are underway, addressing critical issues such as climate change resilience, smart city infrastructure, and renewable energy integration in urban planning. We encourage students to get involved in these projects to gain research experience and contribute to meaningful advancements in civil engineering.

Community Engagement and Outreach

In addition to academic and professional activities, our department is dedicated to community engagement. We will be participating in outreach programs aimed at inspiring the next generation of engineers and promoting STEM education in local schools. These initiatives are vital for fostering a love for engineering and demonstrating the impact of civil engineering on society. We are excited about the opportunities these programs provide and encourage all students and faculty to actively participate.

INDUSTRIAL & LAB. VISIT

A site visit to the Shree Vatika Ajmer construction site was organized on 30 October 2023. Seventeen students from the Civil Engineering Department took part in the visit, along with two faculty members, Er. Bharat Phulwari and Er. Gulzar Ahmad. The visit provided students with valuable knowledge on RCC detailing, building drawing techniques, and different site work aspects.



Site Visit



Guru Kripa Lab.

The Department of Civil Engineering organized a one-day visit to the Material Testing Lab at Guru Kripa Testing House in Shastri Nagar, Ajmer on 28 November 2023. The visit, attended by 20 students and two faculty members, Er. Bharat Phulwari and Er. Gulzar Ahmad, lasted three hours. During the session, various significant Civil Engineering tests were conducted, such as:

1. Tensile strength, elongation, and unit weight of steel bars.
2. Optimum moisture content (OMC) and maximum dry density (MDD) of soil via modified proctor test.
3. Liquid and plastic limit of soil.
4. CBR value of soil.
5. Fineness, initial and final setting time, and compressive strength of cement.
6. Efflorescence, water absorption, and compressive strength of bricks.

INDUSTRIAL VISIT

On February 3, 2024, students from the Civil Engineering Department visited the newly constructed Medical College in Ajmer. Thirty-two students and two faculty members, Er. Bharat Phulwari and Er. Gulzar Ahmad, joined the visit. The site supervisor provided a comprehensive explanation of the construction process, covering interpreting designs, installing shuttering, leveling, placing reinforcement as per drawings and specifications, casting columns, constructing floating columns, and other relevant topics. The students appreciated the chance to visit the site and found it highly engaging.



CONFERENCE AND SEMINARS

Extension Lecture on Beyond Academics: The Journey of Skills, Er. Gulzar Ahmad Dar

National Level FDP: Current trends and their applications, Er Bharat Phulwari.



Research Paper Published by Faculty/ Student

S. No.	Publishers Name	Title of Paper	ISSN No
1	<ul style="list-style-type: none"> • Gulzar Ahmad • Shreyance Sharma • Bharat Phulwari • Upendra Sharma • Vikram 	Assessment of industrial Contribution to environmental pollution through waste water and air emissions integration	2395-4396
2	<ul style="list-style-type: none"> • Gulzar Ahmad • Shreyance Sharma • Bharat Phulwari • Ram Kumar Godara • Pradeep Singh • Bhavya Bhati 	Designing GeoComposite Liners to Enhance Fly Ash pond Containment	2395-4396
3	<ul style="list-style-type: none"> • Gulzar Ahmad • Shreyance Sharma • Praveen Yadav • Om Prakash Sah • Murari Kumar • Ram Kumar Godara 	Exploring Geo-Polymer Concrete with Recycle Steel Slag as Primary Aggregate	2395-4396
4	<ul style="list-style-type: none"> • Gulzar Ahmad • Shreyance Sharma • Mayank Swarup • Mahadev Sah • Mahinder Jangid 	Examining Thin Walled Steel Structures Under Blast loading Conditions	2395-4396
5	<ul style="list-style-type: none"> • Gulzar Ahmad • Shreyance Sharma • Bharat Phulwari • Atole Tanaji Vaman 	Advance Mivan formwork in Building constriction	2349-5162
6	Shreyance Sharma	Forecasting precision: the role of graph neural networks and dynamic GNNs in weather prediction.	2583-7834
7	Shreyance Sharma	Density based support vector machine with outlier filters for real time analysis of rocks and structures.	RAST-2024/001
8	Gulzar Ahmad	Enhancing the Torsional capacity of RC Flanged beams with glass FRP strengthening : an analytical & experimental investigation	2581-9429
9	<ul style="list-style-type: none"> • Gulzar Ahmad • Shreyance Sharma • Bharat Phulwari • Atole Tanaji Vaman 	A review- Mivan Technology	2248-9622

Group Photographs



Group Photo of Diploma Civil Engineering 2024 Passout Batch with Faculty Members.



Group Photo of B.Tech Civil Engineering 2024 Passout Batch with Faculty Members.

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