



Swami Keshvanand Institute of Technology, Management & Gramothan

(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)

(Accredited by NAAC with 'A⁺⁺' Grade)

Approved by AICTE, Ministry of Education, Government of India
Recognized by UGC under Section 2(f) of the UGC Act, 1956

Research Facilities at Department of Civil Engineering

🏠: RAMNAGARIA (JAGATPURA), JAIPUR-302017 (RAJASTHAN), INDIA

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Content

1. Department overview: A brief introduction to the department, including its mission, research areas, faculty expertise, research students, project/ consultancy undertaken, total publication and patents

Mission of the Department:

M1: Create a conducive environment of quality education and skill development for all round growth.

M2: Encourage students for higher education, develop research attitude with ethical values for sustainable development.

M3: Inculcate leadership qualities and professionalism for serving the society.

Introduction (PG Programs)

To meet the growing demand of construction industry, our institute started B. Tech. in Civil Engineering program from the academic session 2011-12. The PG program in Transportation Engineering was introduced in the session 2019-20.

Research Center in Civil Engineering Department was established in the year 2024, under the affiliation of Rajasthan Technical University, Kota for five years.

Department has RTU recognized "Centre of Excellence" in the research field of "Transportation Engineering".

The objectives of the Research center are

- To Provide strategic guidance to the Research activities.
- To supervise the progress of the Research work.
- To Provide the Research Facilities of related work.
- To encourage the faculty and students for Patents and Publication.
- To guide the faculty and students to prepare research proposals/projects to be submitted to various funding agencies.

Presently **Four Faculty members are registered as Research Supervisor** with this Research center. **Five Research scholars are presently registered.**

Research Areas: In the research Center the research areas that are offers to the scholars are the following:

1. Structural Engineering
2. Transportation Engineering
3. Geotechnical Engineering

Faculty Expertise:

➤ Prof. D.K. Sharma

Research Area: Transportation Engineering

➤ Dr. Kishan Lal Jain, Dr. Pooja Jain

Research Area: Structural Engineering

➤ Dr. Pooja Gupta

Research Area: Geotechnical Engineering

Research Students

S. No.	Name of the Scholar	Name of the supervisor	Title of the Thesis
1	Mr. Mahendra Saini	Prof. D. K. Sharma	NA
2	Mr. Deepak Sharma	Dr. Kishan Lal Jain	NA
3	Mr. Nikhil Kumar Sharma	Dr. Kishan Lal Jain	NA
4	Mr. Akash Johari	Dr. Pooja Gupta	NA
5	Mr. Jetender Babulal Jangid	Dr. Pooja Jain	NA

Project/ consultancy undertaken

Year : 2023

PROJECT TITLE	CLIENT	AMOUNT (INR in Lakhs)	PRINCIPAL INVESTIGATOR/ CO-PRINCIPAL INVESTIGATOR	STATUS
Preparation of Mobility Plan for Jaipur Heritage City Area under Special Area Heritage Plan, Jaipur	PDCORE Ltd.	15	Mr. Anirudh Mathur	Ongoing
Concrete Mix Design & Testing of Concrete Cubes	Akshat Apartments PVT. LTD.	2.65	Dr. Rakesh Choudhary & Dr. Abhishek Jain	Completed
Third Party Quality Inspection for Mahima Sansar Phase-I	Mahima Real Estate Pvt. Ltd.	2.25	Dr. Rakesh Choudhary & Dr.Kishan Lal Jain	Completed
Road Safety Audit	Jhunjhunu Engineers PVT. LTD.	1.5	Mr. Anirudh Mathur & Mr. Pawan Patidar	Completed
Material Testing Consultancy	Texel Consulting Engineers Pvt.	0.1	Dr. Rakesh Choudhary and Dr. Abhishek Jain	Completed

	Ltd.			
Material Testing Consultancy	Texel Consulting Engineers Pvt. Ltd.	0.1	Dr. Rakesh Choudhary and Dr. Kishan Lal Jain	Completed

Year : 2022

PROJECT TITLE	CLIENT	AMOUNT (INR in Lakhs)	PRINCIPAL INVESTIGATOR/ CO-PRINCIPAL INVESTIGATOR	STATUS
Material Testing Consultancy	Triangle Engineers Pvt. Ltd.	0.2	Dr. Kishan Lal Jain and Dr. Rakesh Choudhary	Completed

Total publication and patents

Year 2024						
S.No	Name of the Supervisors & Scholars	Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc.				Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute
		Patents	Number of quality publications in SCI/ ESCI/ Scopus	Number of quality publications in Journal, book Chapters	Number of quality publications in Conference	
1	Dr. D. K. Sharma	-	-	-	-	-
2	Dr. Kishan Lal Jain	-	-	-	-	-
3	Dr. Pooja Jain	-	-	-	-	-
4	Dr. Pooja Gupta	-	-	-	-	-
5	Mr. Mahendra Saini	-	-	-	-	-
6	Mr. Deepak Sharma	-	-	-	-	-
7	Mr. Nikhil Kumar Sharma	-	-	-	-	-

8	Mr. Akash Johari	-	-	-	-	-
9	Mr. Jetender Babulal Jangid	-	-	-	-	-

2. Research Facilities: A list of all available research facilities (with photograph-preferably Geo tagged), including their description

Following Research facilities are available in the Research Center:

1. Automatic compactor



2. Accelerated aggregate polishing machine



3. Rolling thin film oven



4. Digital Marshall apparatus



5. Modified Marshall apparatus



6. Triaxial test apparatus



7. Direct shear test apparatus



8. Ultrasonic pulse velocity



9. Compression testing machine (250 kN)



10. Concrete mixer



11. RCPT apparatus



12. Tile Abrasion testing machine



13. Flow table motorized



14. Concrete impermeability



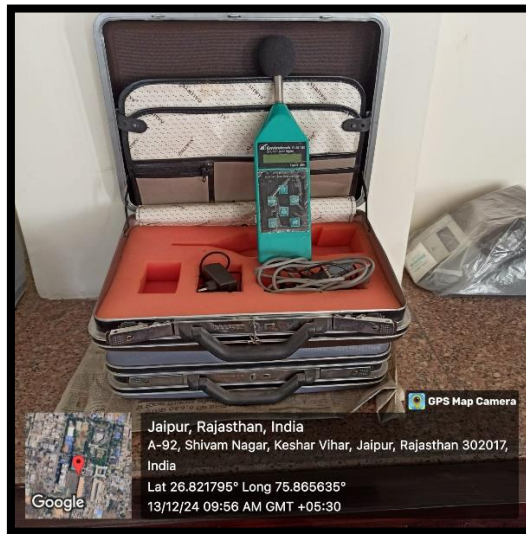
15. Compression testing machine (2000 kN)



16. Air sampler PM 2.5 and PM 10



17. Sound level meter

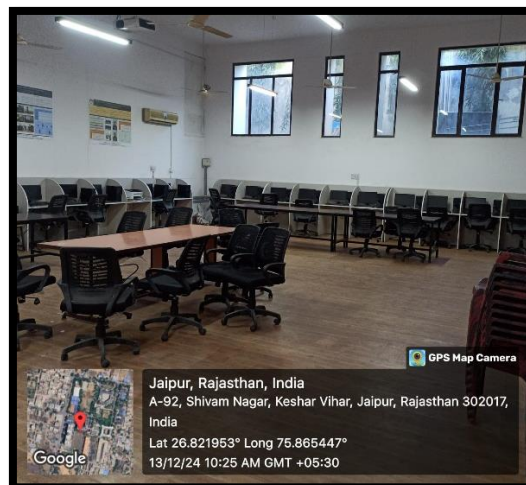


18. Spectrophotometer



19. Total station

20. Centre of Excellence (Transportation Engineering) Computer Lab (18 computers Core i7, 12th Generation, 8 GB RAM and 512 GB SSD)



3. Collaboration:

- Department has signed MOU with Muskaan NGO for collaborative efforts in the field of Road safety.
- Department has signed MOU with HG Infra Engg. Pvt. Ltd. for teaching/training and inputs in latest developments in the construction sector.
- Department has signed MOU with B2B Genie Pvt. Ltd. for teaching/training and inputs in latest developments in the construction sector.