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STRUCTURAL ENGINEERING CONSTRUCTION TECHNOLOGY MANAGEMENT RESEARCH CENTRE (SECTMRC)

DEPARTMENT OF CIVIL ENGINEERING

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STRUCTURAL ENGINEERING AND CONSTRUCTION TECHNOLOGY MANAGEMENT RESEARCH CENTRE (SECTMRC)

CONTENTS

Overview of SECTMRC

Established in 2012 with aim of developing

Research Areas

OVERVIEW OF SECTMRC

The Structural Engineering and Construction Technology Management Research Centre (SECTMRC) is a dedicated facility focused on advancing research and innovation in structural engineering and construction technology. The lab serves as a hub for developing sustainable construction practices, innovative building materials, and advanced structural systems. It integrates cutting-edge tools and methodologies to address challenges in design, construction management, and infrastructure resilience. By fostering collaboration among researchers, industry professionals, and students, SECTMRC aims to enhance construction efficiency, safety, and sustainability while contributing to the global body of knowledge in civil engineering.

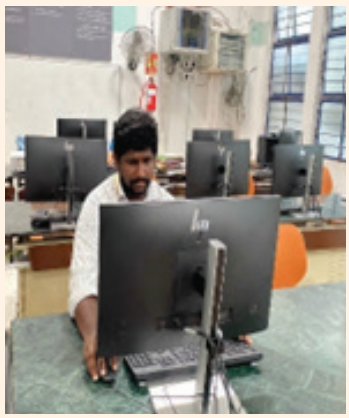
FACULTY ASSOCIATED WITH SECTMRC

Dr. P. Poluraju

Dr Y. Himath Kumar

Dr. J. D. Chaitanya Kumar

Dr. Ashwin Raut.



Dr. N. Lingeswaran

Dr. A. VenkateswaraRao

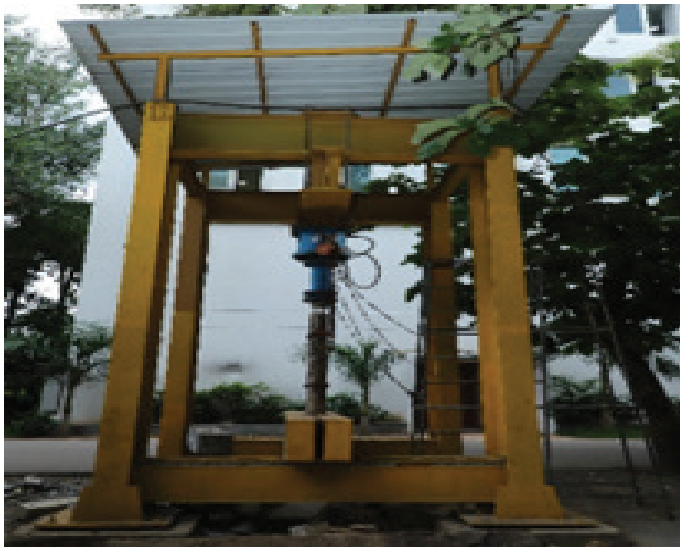
DETAILS OF EQUIPMENT AVAILABLE IN SERC

1. LOADING FRAME

DESCRIPTION:

Loading frames are used to test the load-bearing capacity and structural integrity of components like beams, columns, and slabs, ensuring they meet safety and design standards. They are crucial in R&D for developing structures, allowing researchers to study how materials behave under various loading conditions.

Users: All Students, Scholars, faculty and all departments can use it for research



2. DIGITAL COMPRESSION TESTING MACHINED 3000 KN

Description:

A Digital Compression Testing Machine with a capacity of 3000 kN is a high-capacity, precision instrument designed for testing the compressive strength of materials, particularly in construction and civil engineering. The machine is typically used to test concrete, cement, blocks, and other materials under compression.

Key Features:

1. High Capacity 2. Digital Control System 3. Hydraulic Operation 4. Sturdy Frame 5. Automatic Data Recording 6. Safety Features. 7. Specimen Compatibility

Users: All Students, Scholars, faculty and all departments can use it for research

3. CORROSION TESTING MACHINE

DESCRIPTION:

A Corrosion Testing Machine is an essential tool in industries where materials are exposed to corrosive environments, providing critical insights into material performance, durability, and the effectiveness of protective measures. Utilized in R&D to develop new materials, coatings, and corrosion inhibitors that can withstand harsh environments, thereby enhancing product durability.

Users: All Students, Scholars, faculty and all departments can use it for research

4.. RCPT TESTING MACHINE

DESCRIPTION:

RCPT stands for Rapid Chloride Permeability Test. It's a method used to evaluate the resistance of concrete to the penetration of chloride ions, which can lead to corrosion of reinforcing steel and concrete deterioration. The machine essentially measures the electrical resistance of a concrete specimen when subjected to a specific electrical current. The higher the electrical resistance, the lower the chloride permeability of the concrete.

Users: All Students, Scholars, faculty and all departments can use it for research.

4. REBOUND HAMMER

DESCRIPTION:

A rebound hammer, also known as a Schmidt hammer or Swiss hammer, is a non-destructive testing tool used to estimate the compressive strength of concrete.

KEY FEATURES:

- Portability: Easily carried to the test site.
- Speed: Provides quick results compared to laboratory tests.
- Non-destructive: Does not damage the concrete structure.
- Cost-effective: Relatively inexpensive compared to other testing methods.

Users: All Students, Scholars, faculty and all departments can use it for research

5. UPV TESTER

DESCRIPTION:

UPVstands for Ultrasonic Pulse Velocity. An UPV tester is a device used to measure the speed of sound through concrete. This measurement is then used to assess the concrete's quality, homogeneity, and potential defects.

Key Features:

- Non-destructive: Does not damage the concrete structure.
- Portable: Can be used on-site.
- Quick results: Provides rapid assessment of concrete quality.
- Versatile: Can be used for various concrete structures.

Users: All Students, Scholars, faculty and all departments can use it for research

6.CONCRETE PERMEABILITY TEST

DESCRIPTION:

Concrete permeability is a measure of how easily water, or other fluids can pass through it. A high permeability can lead to issues like frost damage, corrosion of reinforcement, and reduced durability.

The primary goal of a concrete permeability test is to assess the resistance of concrete to water penetration.

This information is crucial for:

- Predicting the long-term durability of concrete structures.
- Selecting suitable concrete mixes for specific environments.
- Evaluating the effectiveness of waterproofing measures.

Users: All Students, Scholars, faculty and all departments can use it for research

SPONSORED PROJECTS:

Project Title: Design And Development of Thermally Insulated Sustainable Building Material to Improve Energy Efficiency of Building Envelop

NAME OF THE PI: Dr. Ashwin Raut

FUNDING AGENCY: Koneru Lakshmaiah Education Foundation

SANCTIONED AMOUNT: Rs.2,20,000

DURATION: 12 Months on 27th January 2022

S. NO.	NAME OF THE SCHOLAR	UNIVERSITY ID. NO	NAME OF GUIDE	YEAR OF	
				REGIS-TRATION	AWARD
1.	Mr. B. Sarath Chan-dra Kumar	13302003	Dr. K. Ramesh	2013	2019
2.	Mr. Ch. Srinivasa Rao	13302013	Dr. A. Siva Sankar	2013	2019
3.	Mr. Sunil	13302012	Dr. A. Siva Sankar	2013	2019
4.	Mr. M. Achyutha K. Reddy	163020007	Dr. B.K. Rao Dr. V. Ranga. Rao	2016	2022
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8.	Mr. Lanka Lakshmi Kanth	173020006	Dr. P. Poluraju	2017	2023
9.	Mr. Annabathina Sivakrishna	163020001	Dr. P. Poluraju	2016	2024
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CURRENT PH. D SCHOLARS
FULL TIME

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3	Rahul Reddy	2120020004	2022
4	Kashif Tanzil	2120020005	2022
5	Shaik Shandani Basha	2202020101	2022-23
6	Janga Supriya	2002020002	2021-22
8	Pesarlanka Vaishnavi	2002020004	2021-22
9	Pawar Praveen	2120020001	2021-22
10	Chilukuri Sravan Kumar	2002020001	2020-21

CURRENT MTECH STUDENTS
STRUCTURES

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1	Pathri Sree Pavan	2201020001	2022 - 2024
2	Singamsetti Mohan Sai	2201020002	2022 - 2024
3	Potluri Anudeep	2201020003	2022 - 2024
4	Yadlapalli Akhila	2201020004	2022 - 2024
5	Gurram Likhitha	2201020005	2022 - 2024
6	Gudipati Chaitanya Avi-nash	2201020006	2022 - 2024
7	Kalapala Vijay babu	2201020007	2022 - 2024
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9	Maddula Anjali	2201020010	2022 - 2024
10	Mayank kumar thakur	2201020012	2022 - 2024
11	Dharma raj upadhyaya	2201020013	2022 - 2024
12	Bagirisoko Edison	2201020014	2022 - 2024
13	Vudata Harsha Sai	2301020001	2023-2025
14	Paritala Krishna Vamsi	2301020002	2023-2025
15	Pendyala Mohan naga Sai Krishna	2301020003	2023-2025
16	Putti Durga prasad	2301020005	2023-2025

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SL. NO	NAME OF THE SCHOLAR	UNIVERSITY ID. NO.	YEAR OF REGISTRATION
1	Jasonn Twinamatsiko	2301030001	2023 - 2025
2	Samudrala Aditya Sri Vishnu	2301030002	2023 - 2025
3	Nadigatla Naveen Kumar	2301030003	2023 - 2025
4	Kola Veera Gani Durga Prasad	2301030004	2023 - 2025
5	Shaik Shandani Basha	2202020101	2022-23
6	Janga Supriya	2002020002	2021-22
7	Pesarlanka Vaishnavi	2002020004	2021-22
8	Pawar Praveen	2120020001	2021-22
9	Chilukuri Sravan Kumar	2002020001	2020-21

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