

The quest for search of knowledge is made vibrant by promoting basic and interdisciplinary research activities with focus on emerging societal needs and innovation. To cater the need of researchers and innovators, a Central Instrumentation Facility Centre is established in University. This center supports various researchers by providing a well-equipped laboratories pertaining to the modern research areas. In addition CIC Provide teaching and research supports to post graduate students & researchers of all science and technology departments. It runs under the purview of Research Cell of the university. The objective of this center is to strengthen the technological infrastructure to carry out advanced research in various science disciplines under one roof. For this, university creates an enabling environment to foster interdisciplinary research culture and providing required research infrastructure and support. The center was created with the objective of providing a central facility of latest and advanced analytical instruments for research and for promoting interdisciplinary research. Efforts are being made by the CIF to develop new techniques / methods of analysis to put the instruments to their full use and offer them to the researchers for exploring new dimensions in research in various areas of science and technology.

The facilities will house a wide range of sophisticated analytical equipment, maintain them and ensure a fair utilization among the research community. Some of the equipments that are installed and operational include Spectrophotometer, BOD Incubator, Spectrometer, viscometer etc. are located in CIC Lab itself while some bulky equipments are placed at the Department.

The computer labs are equipped with various design and analysis tools, simulation softwares, High level language softwares etc. with 24\*7 internet connectivity. The university Engineering Department has laboratories with state-of-the-art instruments like. Sieve, Pendulum Impact Testing machine, Universal Testing Machine, Compression Testing Machine, Bitumine Mixer and extractor, various testing apparatuses for stability test, ductility test etc. We have laboratories for fields like Fluid Mechanics, IC Engine, CNC Lathe machine for automation work and CAD tools.

CIC is trying hard to make this center even more equipped in future and open it for outsiders to utilize CICEquipments and instruments on a nominal payment basis. Also, to organize short-term courses/workshops on the use, application and analysis of various instruments for advanced research for students, teachers and technical personnel from our University, affiliated institutions, Universities and





**Instruments under CIC**

<b>Instrument Name</b>	<b>Objective</b>	<b>Lab</b>
Spectrophotometer	A basic instrument used for obtaining absorption/transmittance spectra, optical band gap and solute concentration etc.	Chemistry Lab
Digital pH Meter	It is used to accurately measure the acidity or alkalinity of a substance	Chemistry Lab
Kipp's Apparatus	It is an apparatus designed for preparation of small volumes of gases.	Chemistry Lab
BOD Incubator	BOD Incubators are used to maintain temperature to test tissue culture growth, storage of bacterial cultures and incubation where high degree of constant temperature accuracy is required.	Chemistry Lab
Pendulum Impact Testing Machine	It is used to determine the amount of energy absorbed by a material during fracture.	Engineering Lab
Spring Testing Machine	It is used to test the laminated springs and coil springs under compression and bending loads	Engineering Lab
Universal Testing Machine	To check the Tensile strength of building materials	Engineering Lab
Hot air oven	Determination of moisture in soil and plant by dry weight basis.	Agronomy lab
Binocular microscope	To Observe the minute insects and insect body parts after Dissection	Entomology lab
Soxhlet Extraction Apparatus	To extract the lipids and other molecules from a solid sample	Entomology lab
Rotary shaker	To mix solid and liquid at desired period of time.	Soil science and agriculture chemistry
Infiltrometer	To determine infiltration rate of soil.	Soil science and agriculture chemistry



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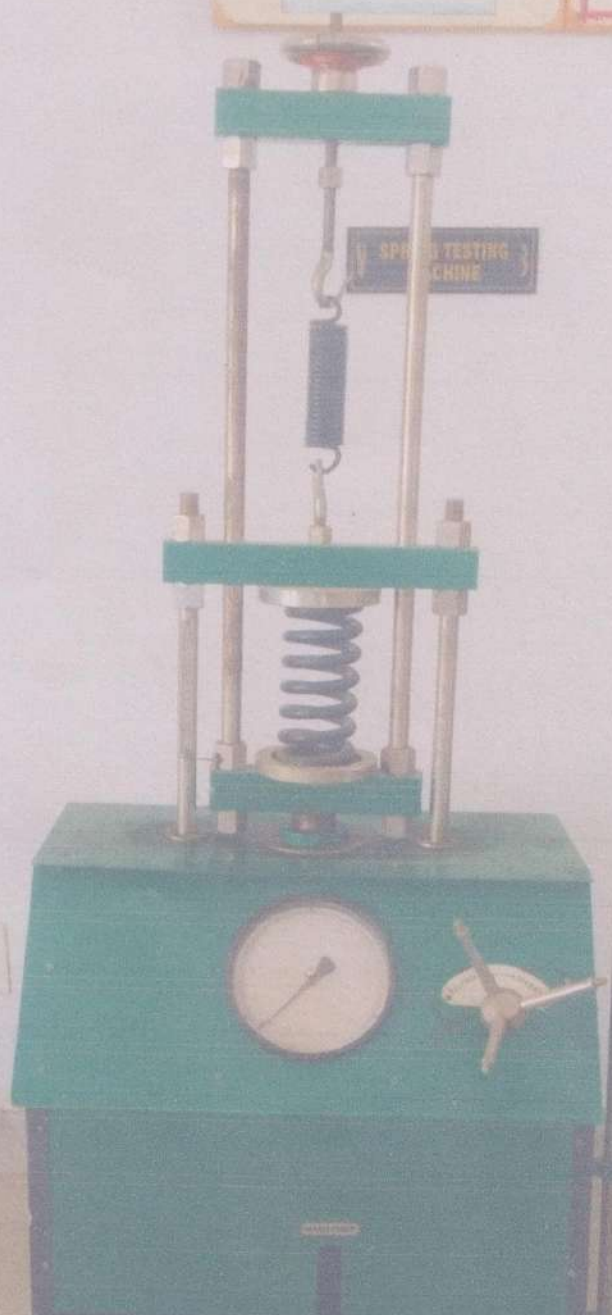
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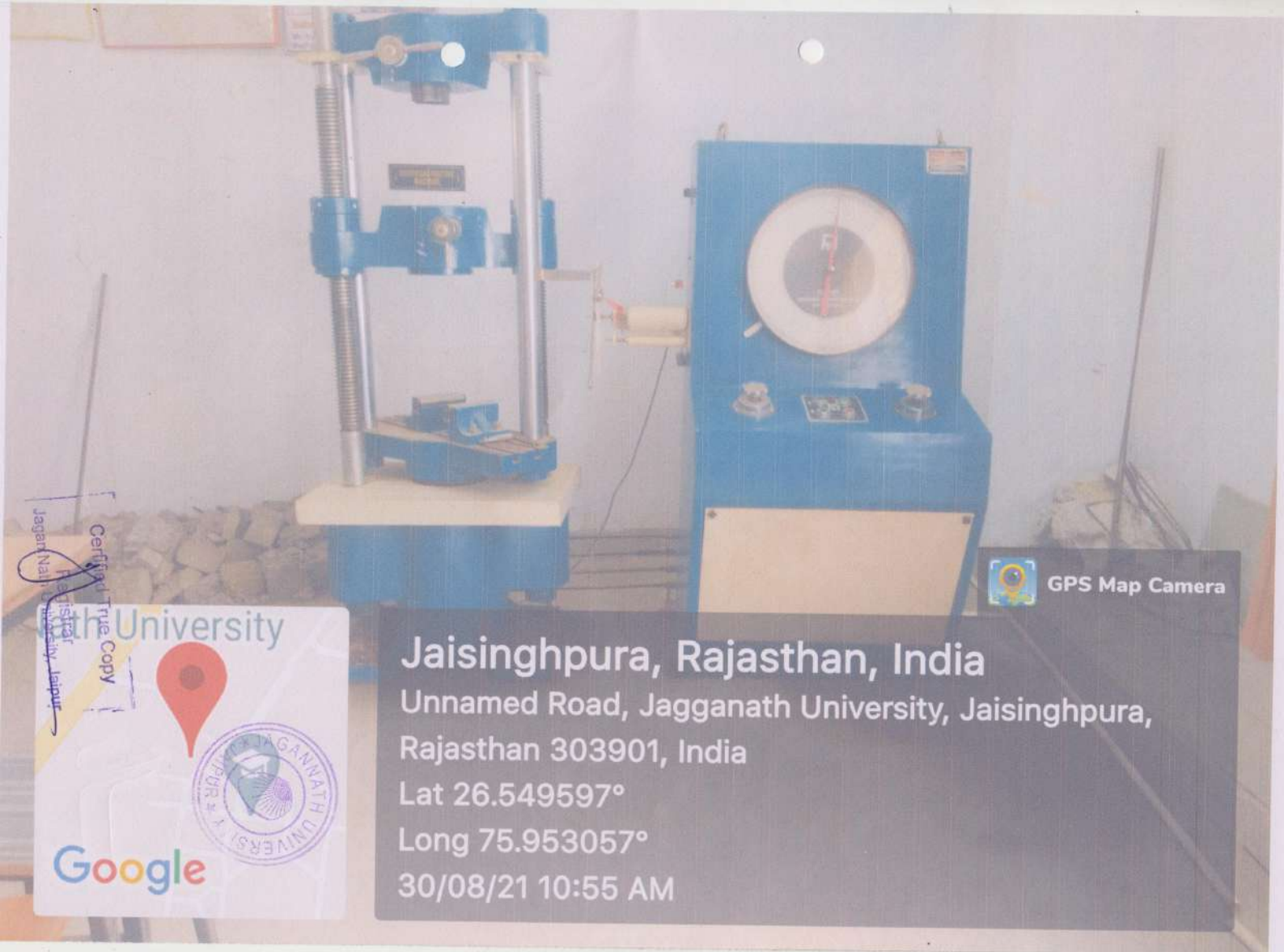
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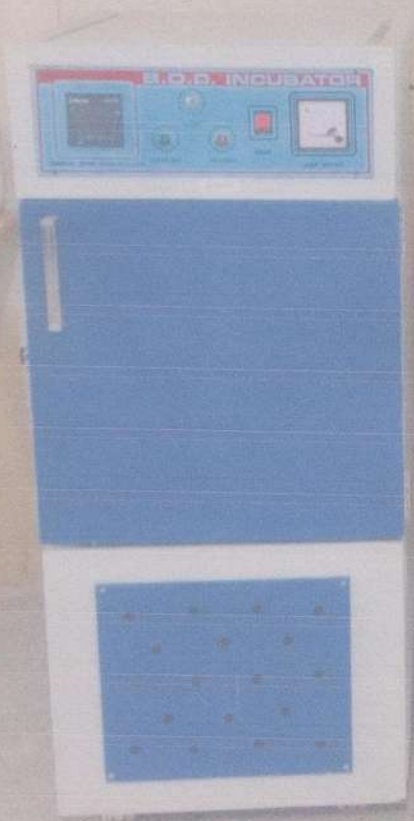
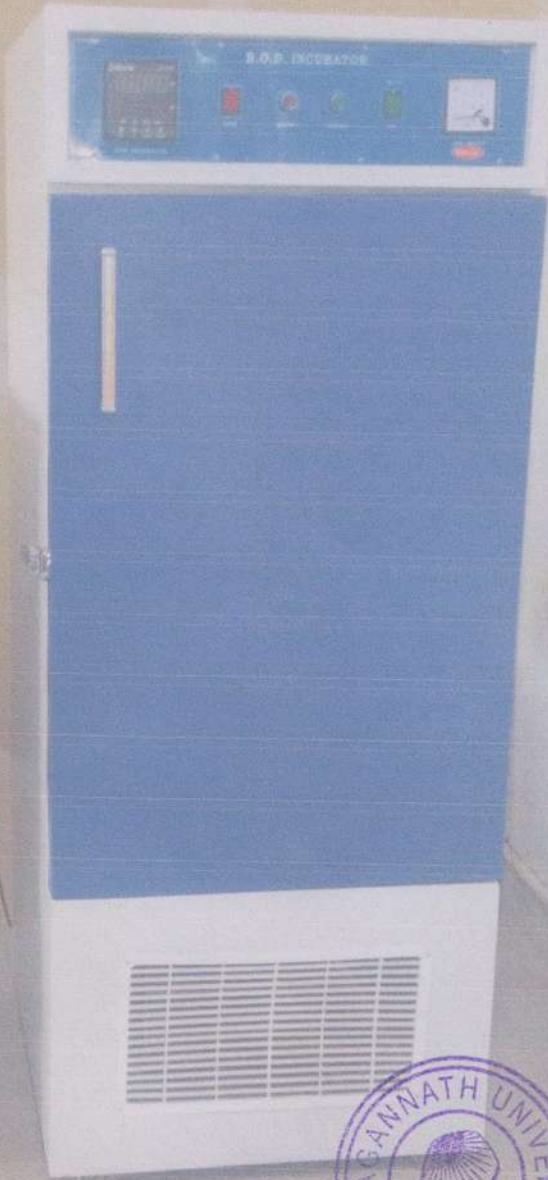
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