



MAHATMA GANDHI UNIVERSITY
of
MEDICAL SCIENCES & TECHNOLOGY
JAIPUR

**LIST OF FACILITIES AVAILABLE IN THE
UNIVERSITY AND THEIR YEAR OF
ESTABLISHMENT**

Campus:

RIICO Institutional Area, Sitapura, Tonk Road, JAIPUR – 302 022 (Raj.) INDIA | Phone : +91-141-2771804 • 2771777 | Fax : +91-141-2771805 • 2771807
Website : www.mgumst.org | Email : info@mgumst.org | **Sponsoring Body : India Education Trust**



MAHATMA GANDHI UNIVERSITY
of
MEDICAL SCIENCES & TECHNOLOGY
JAIPUR

CENTRAL RESEARCH LAB

Campus:

RIICO Institutional Area, Sitapura, Tonk Road, JAIPUR – 302 022 (Raj.) INDIA | Phone : +91-141-2771804 • 2771777 | Fax : +91-141-2771805 • 2771807
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CENTRAL RESEARCH LABORATORY

Year of Established: 2016

- PCR (Infectious Disease)
- Multiplex PCR Panel
- Serology ELISA Tests
- Non- Infectious PCR
- Culture & Drug susceptibility studies
- Real-Time PCR, NAAT, DNA Hybridization assays, EVOS FL Auto microscope, Immunological assays and Culture and Drug susceptibility studies.
- Multiplex ligation dependent probe amplification (MLPA), Cytogenetic microarray (CMA) or gene sequencing.
- Screening for chromosomal disorders in fetus via prenatal invasive testing chorionic villous sampling and amniocentesis for confirmation of chromosomal disorder
- Personal Genome Machine (PGM) is being used for the study of Cancer Genetics, Microbial Genetics and other diseases.
- The Gradient PCR is mainly used for Research Purposes.

CENTRAL RESEARCH MOLECULAR LABORATORY

(INFECTIOUS DISEASE, RESEARCH AND DIAGNOSTICS)

MGUMST CRL Molecular lab has state of the art molecular research facility for all interdisciplinary studies. The thrust area to run this lab is its own R&D programs in technology development, assay development and biomarker discovery. This lab is equipped with cutting edge technologies like Real-Time PCR, NAAT, DNA Hybridization assays, EVOS FL Auto microscope, Immunological assays and Culture and Drug susceptibility studies.

Campus:



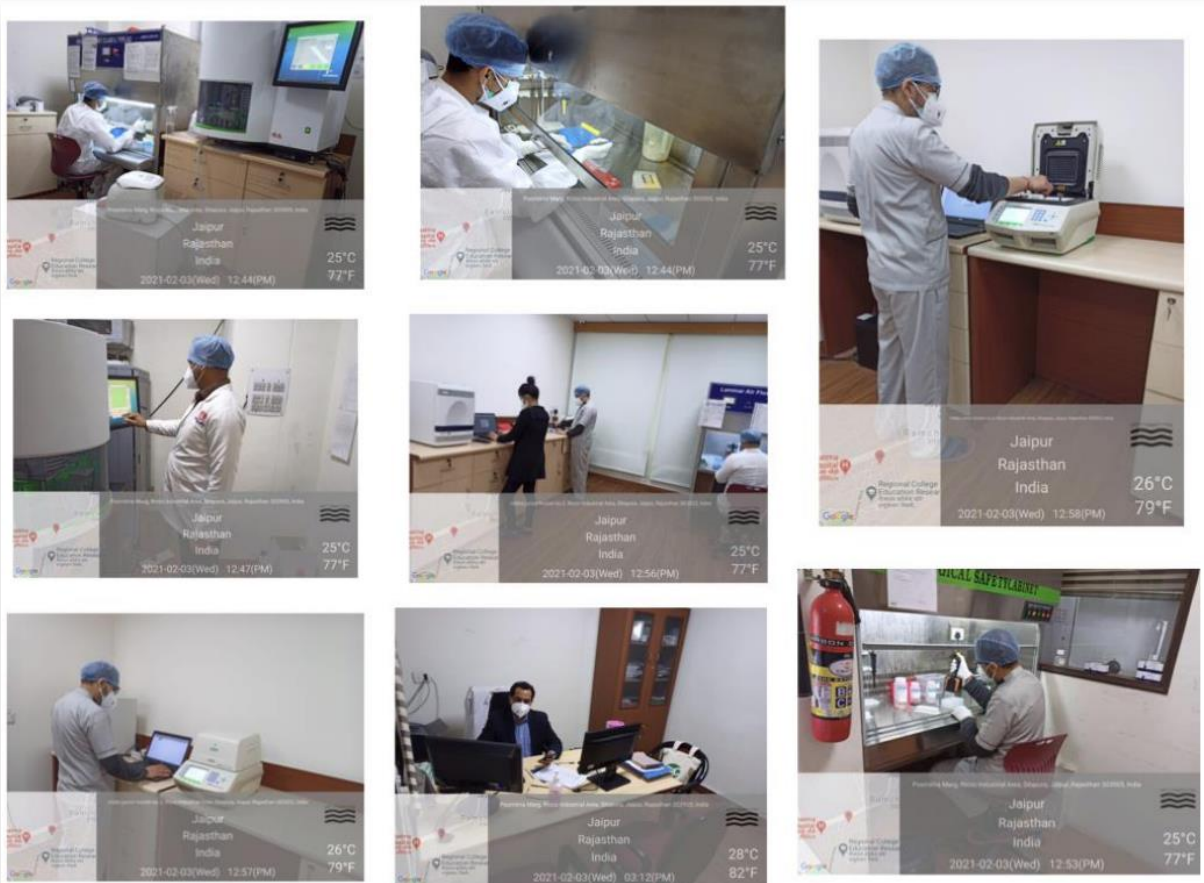
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As a healthcare organization, we are conscious of our responsibility to reduce the test cost burden on the society. We aim to achieve this objective with increased efficiency and productivity gained from a centralized processing laboratory, which is in line with the Vision and Mission of our Institute.



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Photos of Central Research Lab

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CENTRAL LAB

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CENTRAL LABORATORY

Year of Established: 2001

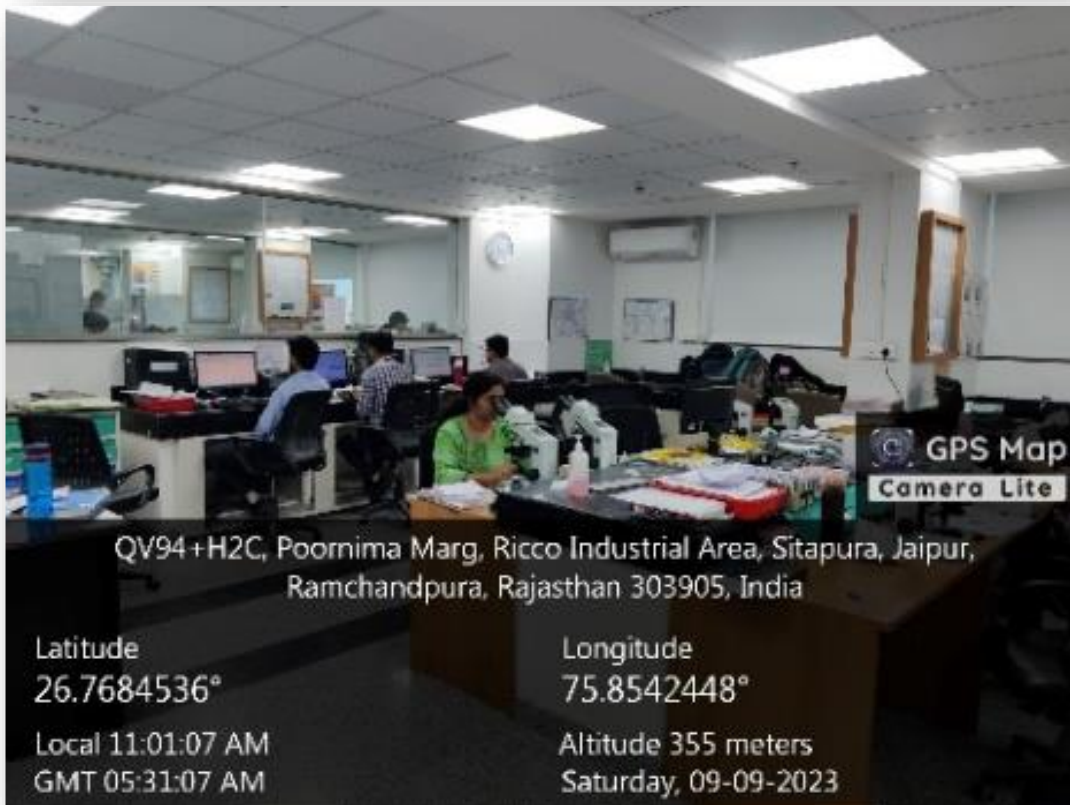
- NABL accredited laboratory with all latest infrastructure.
- The Laboratory offer more than 500 tests
- Well-equipped blood bank
- Labs of individual departments like Microbiology, Pathology and Dentistry



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It is reputed diagnostic laboratory catering patients from all over Rajasthan. The laboratory is NABL accredited laboratory with all latest infrastructure. The Laboratory offer more than 500 tests, using the most advanced state-of-the-art technology supported by our highly skilled personnel. We believe in delivering accurate and quality reports in affordable rates.

MGUMST central laboratory wish to extend its services in communities by participating in Health checkup plans and also by establishing memorandum of understanding with other hospitals at periphery, in order to benefits all needy and disserving patients.

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ANIMAL HOUSE

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ANIMAL HOUSE

Year of Established: 2001

- Noise free environment
- Computer assisted module for teaching in UG curriculum.
- The lab has 60 Computers with CAL software which have access to National Essential Drug Lists, Standard Treatment Guidelines, Banned Drug List of CDSCO, WHO and many others to impart greater knowledge.

Animal House was established in MGUMST under medical college in the year 2001. It has recently been relocated to newer premises. This is a vital area for the research aspect in animal studies. Animal House is divided into separate areas for storage of experimental animals, washing, storage and procedural rooms as per the norms of CPCSEA, Government of India.



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Institutional Ethics Committee (IEC) looks after the care, usage, evaluation and permissions related to the experimental studies on animals as per the guidelines.

According to the new UG curriculum for teaching Pharmacology, the required knowledge and skill are imparted by using computer assisted module. And the animal hold area is required as per the CPCSEA guidelines, only if, research and postgraduate training is envisaged.

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MEDIA LAB

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MEDIA LAB

Year of Established: 2001

- Conducting health camps & webinars on community health topics
- Facebook page for advertisement & public awareness
- Advertising in print as well as broadcasting media
- Conducting social events around the city and peripheral area of Rajasthan
- Orator programs in the university auditorium
- Holding events on days of National Importance
- University YouTube channel



Campus:

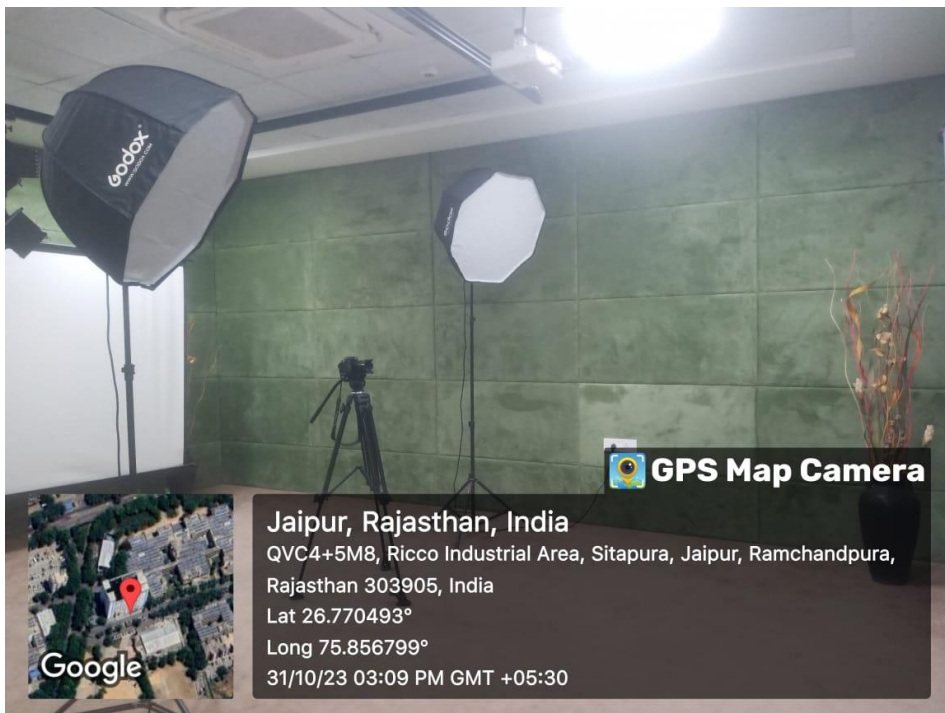
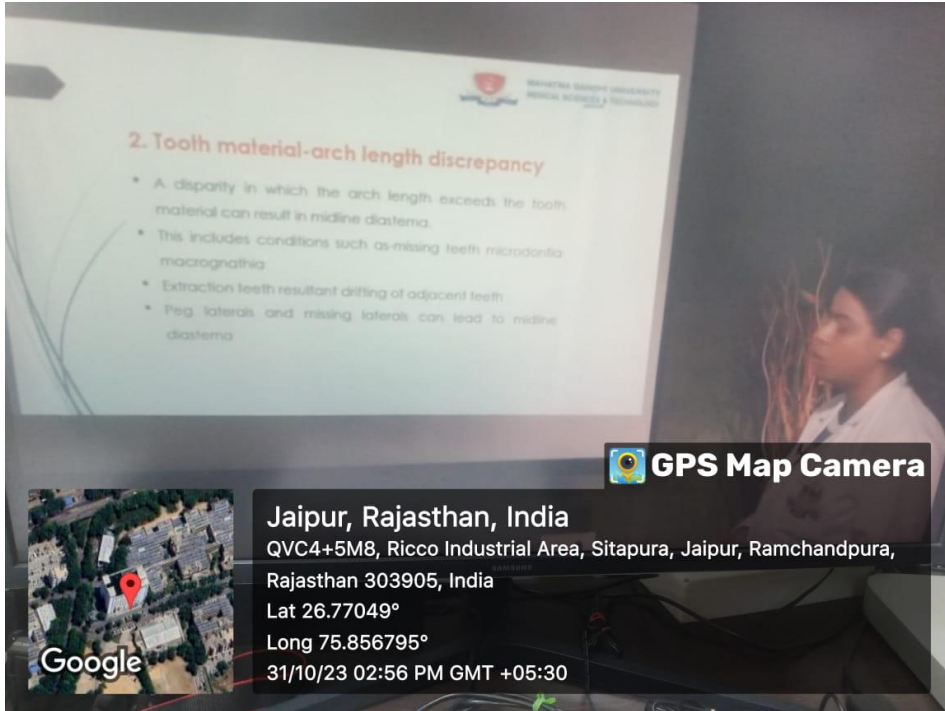


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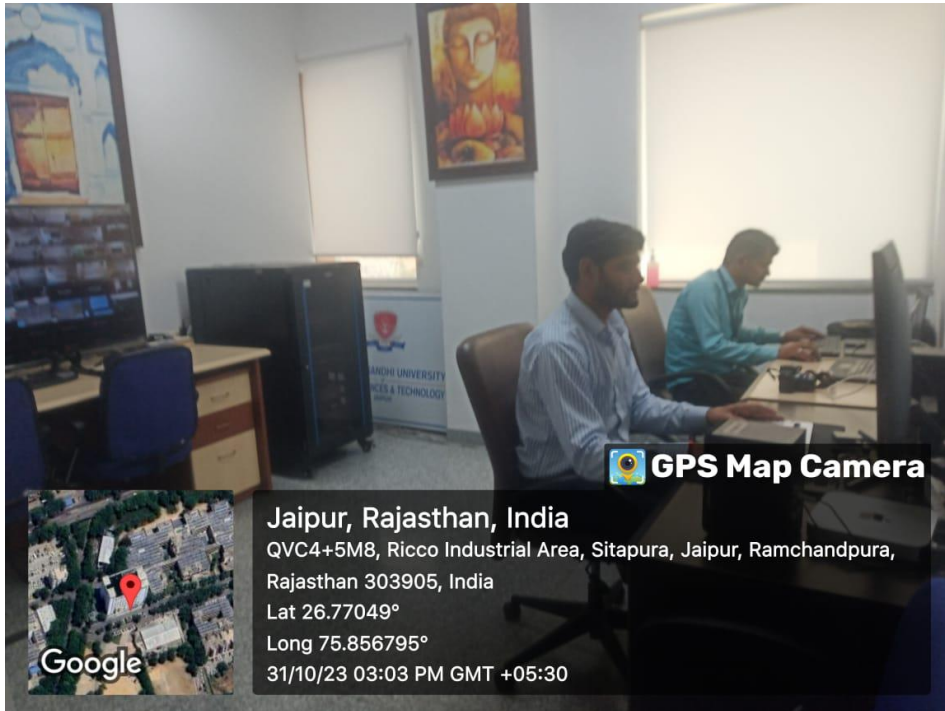
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HEALTH INFORMATICS

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HEALTH INFORMATICS

Year of Established: 2019

- Establish Undergraduate and Postgraduate training
- Links Health care, information technology management sciences and Computer Sciences with an ultimate aim to improve the quality and safety of patient care.

Health informatics is the field of science and engineering that aims at developing methods and technologies for the acquisition, processing, and study of patient data, which can come from different sources and modalities, such as electronic health records, diagnostic test results, medical scans. The health domain provides an extremely wide variety of problems that can be tackled using computational techniques.



Health informatics is a spectrum of multidisciplinary fields that includes study of the design, development and application of computational innovations to improve health care. The disciplines involved combines medicine fields with computing fields, in particular computer engineering, software engineering, information engineering, bioinformatics, bio-inspired

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computing, theoretical computer science, information systems, data science, information technology, autonomic computing, and behavior informatics. In academic institutions, medical informatics research focus on applications of artificial intelligence in healthcare and designing medical devices based on embedded systems. In some countries term informatics is also used in the context of applying library science to data management in hospitals.



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MUSEUM

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MUSEUM

Year of Established: 2001

- Museum of all the departments (Anatomy, Pathology, Microbiology, Pharmacology, Forensic Medicine, Community Medicine, Obstetrics and Gynaecology, Community Dentistry etc) includes specimens, charts, educational articles, interesting case studies, plates & models.
- The catalogue system in museum is maintained according to MCI criteria with well-equipped demonstration rooms, which are well ventilated and spacious.
- The histological lab also has modern microscopes with all different types of slides for teaching purpose.
- The museum of the pathology department is the backbone of the college & hospital & boasts of a collection of specimens of the rare disease.
- The museum of the anatomy department consists of a large number of specimens, charts, models spread over all the sections viz. Dissection Hall, Museum & Histology laboratory
- Forensic medicine and toxicology department has its museum, which showcases different type of weapons, toxicology samples, osteology samples for bone age and sex determination, preserved organs, to name a few.
- Various departments of dental college consist of museums consisting of models and charts describing about importance and maintenance of oral hygiene, about tooth development process, about various dental procedures and dental anomalies. These charts and models are useful for the knowledge disbursement of dental student as well as for the patient's education.

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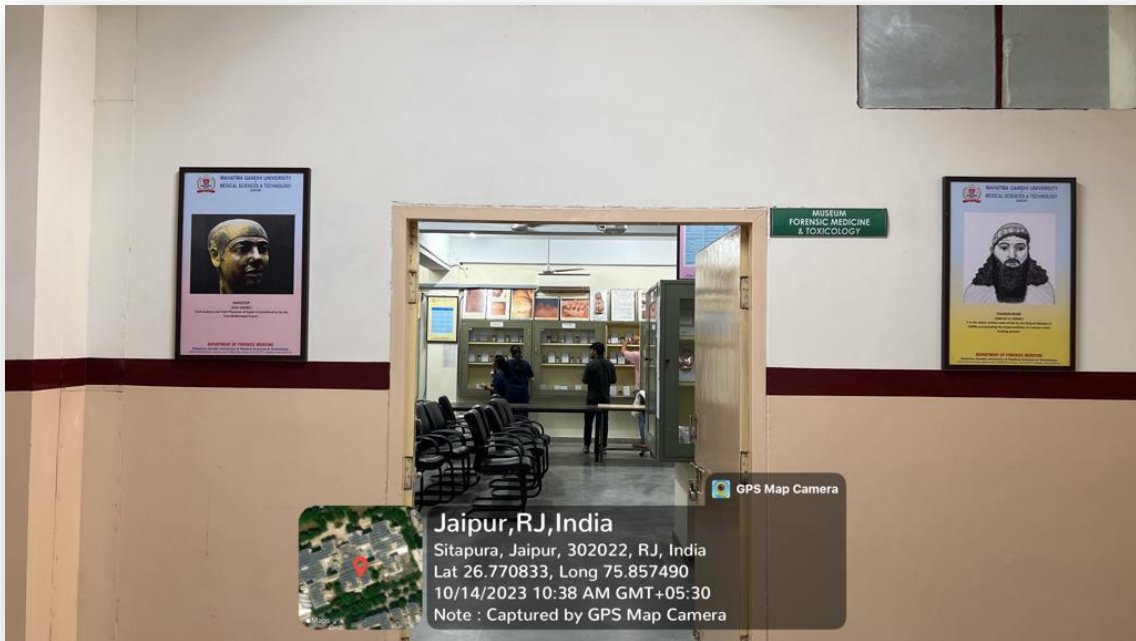


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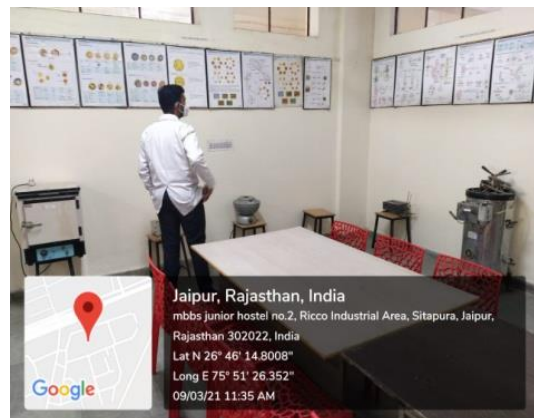
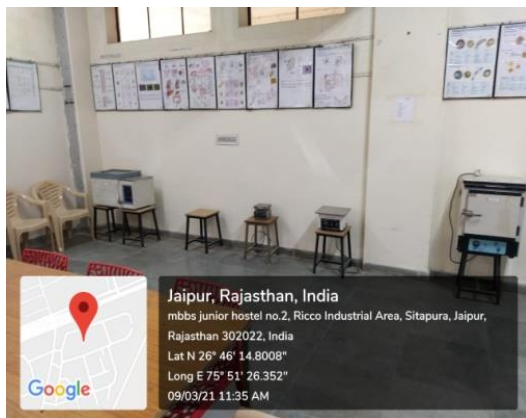
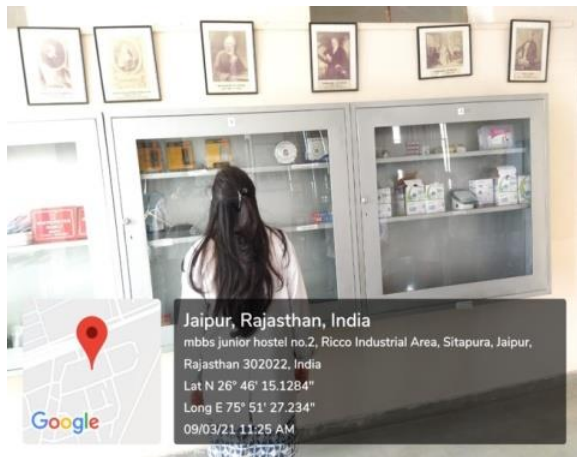
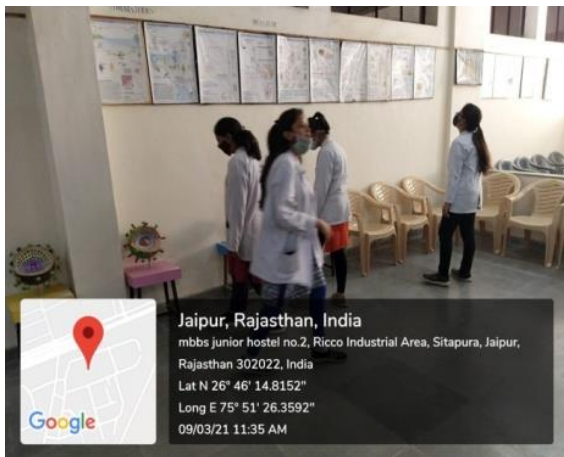
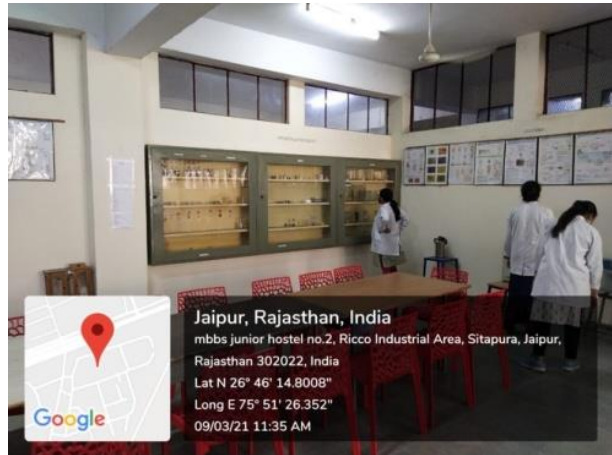
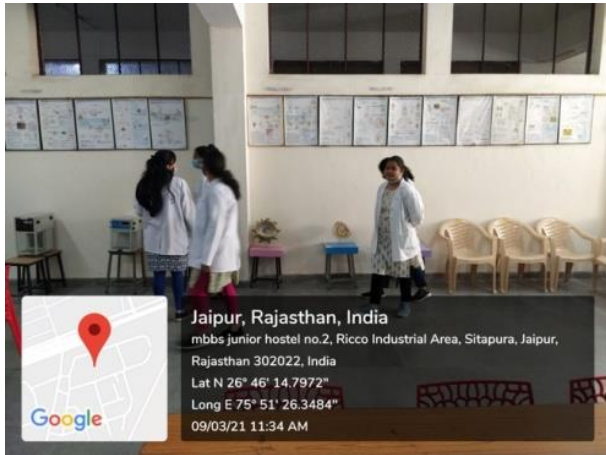
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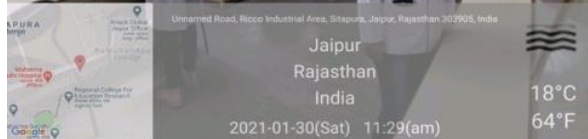
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Museum of Microbiology



Campus:

Museum of Anatomy



Campus:

Museum of Pathology



Campus:

Museum of Gynaecology

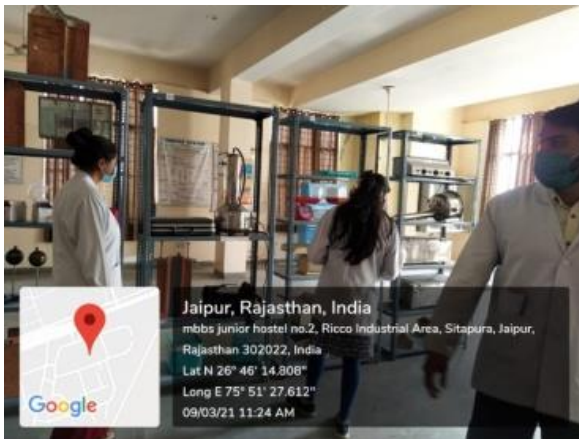


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Museum of Community Medicine



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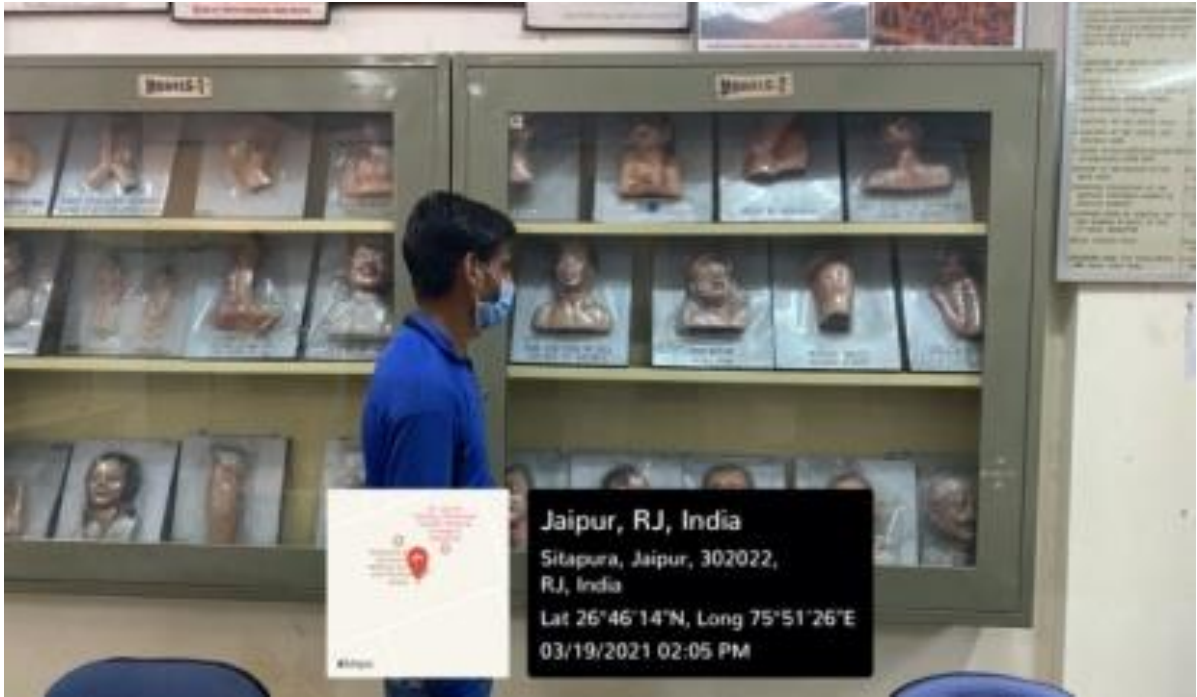
Museum of Forensic Medicine



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Museum of Community Dentistry



Campus:



Campus:

Museum of other departments of dentistry like Pediatric Dentistry, Orthodontics, Oral Pathology



Jaipur, R.J, India
 Sitapura, Jaipur, 302022,
 R.J, India
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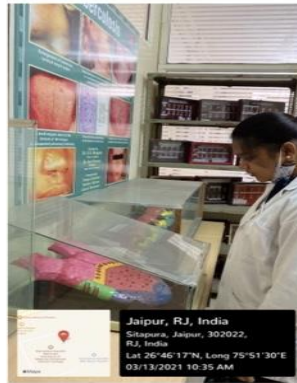
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e-RESOURCE STUDIOS

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e-RESOURCE STUDIOS

Year of Established: 2001

E-RESOURCE STUDIOS AND RESEARCH / STATISTICAL DATABASE

Dr. K.D. GUPTA KNOWLEDGE RESOURCE CENTRE

- The two-storied library building with areas of 2540 sq. mtrs. and can accommodate 670 users.
- Automated by KOHA Software and users can get information from their place about resources availability in the library through Library Open Public Access Catalogue (OPAC) <http://centrallibrary.mgumst.org:7001/>
- Total Library Collection is about 30111; E-Journal are 14808; E-Books are 7688; Print journals are 2000; Educational CD-ROM Collection at 839 and around 1000 thesis collections.
- Rich collection of Hindi Literature & Mahatma Gandhi Books, books on Medical Ethics and Relevant Indian Philosophy, Books of Indian Constitution and 150 Titles of Ancient books.
- 65 computers with Internet & e-library facilities (e-journals, e-books and other academic-resources) & many other open access resources are made available to the users like BMJJ Premier Collection, Knowledge Hub.
- DELNET is a network of 1000 institutions and access is being given to more than 60 lakh records through online systems. DELNET provides the delivery of individual books as and when required by member libraries and photocopies of articles published in India and abroad through the Inter Library Loan/Document Delivery Services.
- **National Digital Library:** Library has Access of NDNL: Ministry of Human Resource Development under its National Mission on Education through Information and Communication Technology has initiated the National Digital Library of India (NDLI India) pilot project to develop a framework of virtual repository of learning resources with a single-window search facility. Filtered and federated searching is employed to facilitate focused searching so that learners can find out the right resource with less effort and in minimum time.

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- Shodhganga is the digital repository of Indian Electronic Theses and Dissertation by the INFLIBNET Centre. All MGUMST PhD Theses have been uploaded on it.
- **Institutional Digital Repository (MGUMST ई-संग्रह):** The Central Library has established an Institutional Digital Repository (ई-संग्रह) Using Dspace Software. This software is used for creating repositories for published digital content. It is content management systems and systems. This repository software serves a specific need as a digital archives system, focused on the long-term storage, access and preservation of digital content. Below listed content are available on **MGUMST ई-संग्रह**.



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CLINICAL TRIAL CENTRE

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CLINICAL TRIAL CENTRE

Year of Established: 2020

- Clinical trial center of MGUMST incepted on year 2020.
- Till date 18 clinical trials were approved, 7 were completed and 11 are ongoing.
- Major indications of the clinical trials including metastatic colorectal cancer, metastatic squamous cell carcinoma of the head and neck, Diabetic Peripheral Neuropathy, typhoid conjugate vaccine, advanced renal cell carcinoma, bone metastases from solid tumors, Peritoneal Carcinoma, musculoskeletal pain, metastatic breast cancer etc.
- Majority of studies are multinational.
- All the necessary infrastructure and facilities is available including drug storage room, monitoring room and documentation room for the smooth conducting of clinical trials.
- Concerned principal investigators and site staff involving trials are trained with the GCP and strict adherence with the provided guidelines by the FDA and CDSCO.
- Institutional ethics committee is registered with the CDSCO.



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Jaipur, Rajasthan, India

QV94+H2C, Poornima Marg, Ricco Industrial Area, Sitapura, Jaipur,
Ramchandpura, Rajasthan 303905, India

Lat 26.76856°

Long 75.854245°

09/09/23 11:48 AM GMT +05:30



Jaipur, Rajasthan, India

QV94+H2C, Poornima Marg, Ricco Industrial Area, Sitapura, Jaipur,
Ramchandpura, Rajasthan 303905, India

Lat 26.768526°

Long 75.85424°

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Lat 26.768524°
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BLOOD BANK / CENTRE

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BLOOD BANK / CENTRE

- Mahatma Gandhi Medical College and Hospital Blood Bank is a state of art Blood Bank with NABH accreditation.
- Department has modern histopathology, cytopathology, hematology and service laboratories for catering the needs of Mahatma Gandhi Hospital attached to the medical college.
- The blood bank is equipped with modern technology and blood component facilities. It operates round the clock for issue of blood components to patients mainly in-house and to other surrounding hospitals.
- Our blood bank supports Voluntary blood donation with more than 80% collection in camps, an in-house blood donor registry with more 4000 donors registered.
- Our blood bank promotes rational use of blood components and safe blood transfusion through good manufacturing practices controlled by quality standards, skilled manpower and high-end technology for component separation and Apheresis procedure.
- The blood bank also has Plasma therapy facilities, which were of immense help in treatments during the COVID time.



Campus:



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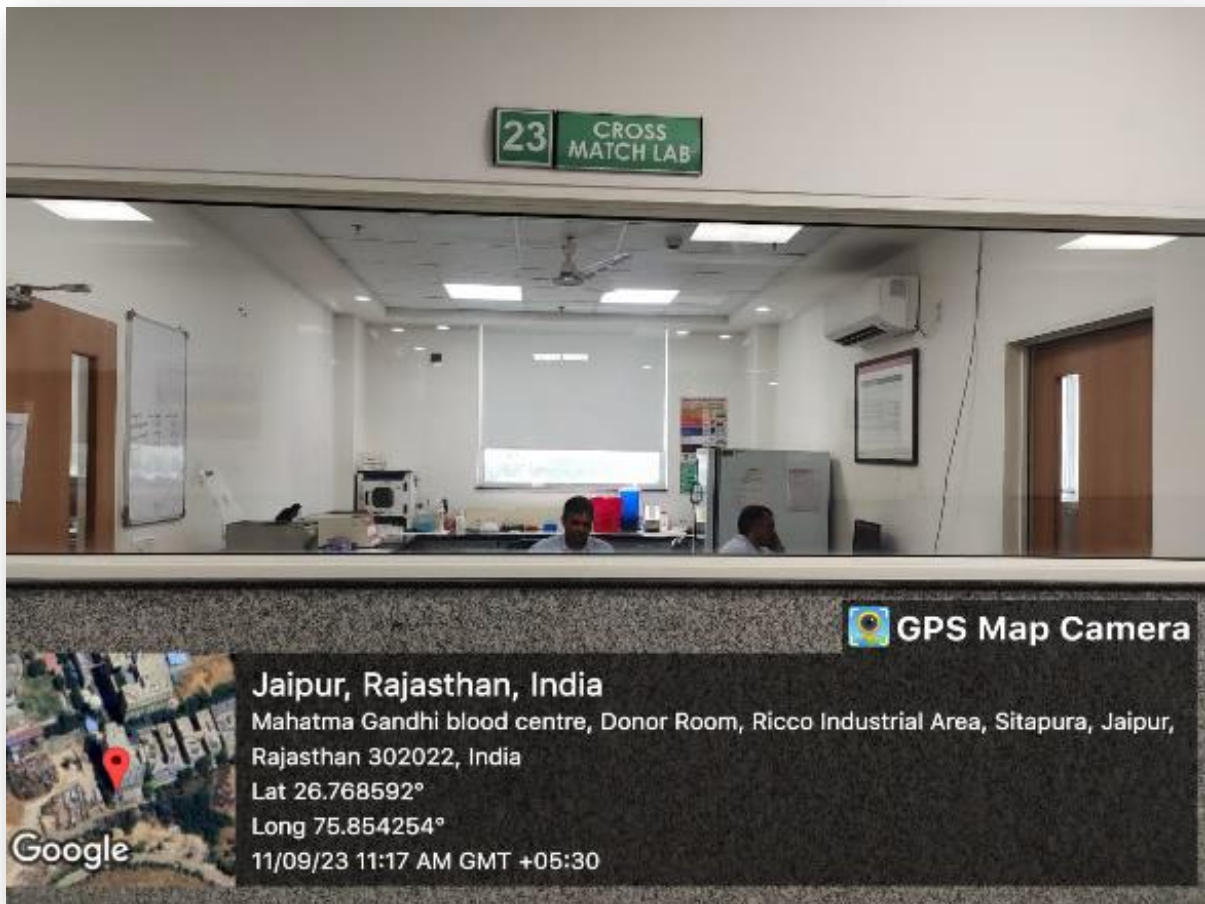
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Jaipur, Rajasthan, India
WRET College, Poonima Marg, Sitapura, Jaipur, Rajasthan 302022, India
Lat N 26° 46' 8.7700"
Long E 75° 52' 18.5838"
12/04/21 10:48 AM



GPS Map Camera

Jaipur, Rajasthan, India
Mahatma Gandhi blood centre, Donor Room, Ricco Industrial Area, Sitapura, Jaipur,
Rajasthan 302022, India
Lat 26.768592°
Long 75.854254°
11/09/23 11:17 AM GMT +05:30

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**CENTRE FOR CANCER
IMMUNOTHERAPY (CCI)**

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CENTRE FOR CANCER IMMUNOTHERAPY (CCI)

- Mahatma Gandhi Medical College and Hospital Blood Bank is a state of art Blood Bank with NABH accreditation.
- Department has modern histopathology, cytopathology, hematology and service laboratories for catering the needs of Mahatma Gandhi Hospital attached to the medical college.
- The Centre for Cancer Immunotherapy [CCI] is at the forefront of exploring new avenues for novel immune- based cancer treatments, as well as predicting and improving the effectiveness of existing immunotherapies.
- Our findings have opened up new avenues for bench-to-bedside translation and have contributed toward the development of novel DC based immunotherapeutic approach for better cancer treatment and management. CCI has the first state-of-art platform Clean Room 1000 particle free [ISO-6] in India for cancer immunotherapy.
- CCI is focused on development of new technologies for personalized treatments modalities that are safe and affordable in cancer management through the use of dendritic cell-based immunotherapies for recurrent/metastatic inoperable oral cavity cancer, recurrent/metastatic TNBC patients and metastatic Gall bladder cancer DC based vaccines will be used as personalized intervention by modulating their immune response.
- Our goal is to accelerate and synergize efforts to quickly translate fundamentals from basic cancer research into the clinics for effective treatment of cancer patients. Also, CCI is in continuous process to develop and standardize methodologies for measuring the immune response to these investigational immunotherapies and establishing new tumor markers for clinical response.
- CCI is engaged in Translational Medicine that aims to improve the health of cancer patients. Seeing the urgency CCI is already working on Biomarkers & Diagnostics that are the key-component to diagnose a cancer in various malignancies at different stages. Large scale validation of tumor associated antigen namely SPAG9 in Breast, ovarian, cervical, bladder and renal cell cancers is going on as depicted in IHC figure (C). This will eventually help us to monitor cancer patients during various treatment modalities, and to measure patient response to therapeutic modalities.

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- CCI is committed to dissect the complexity and heterogeneity of tumor microenvironment (TME) that includes surrounding blood vessels, immune cells, fibroblasts, signalling molecules and the extracellular matrix (ECM). This would in fact help Medical oncologist for the course of treatment available for various cancer for better prognosis and will have huge impact on the outcome of cancer treatment.



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GENETIC LABORATORY

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GENETIC LABORATORY

Medical Genetics department at Mahatma Gandhi Medical College and Hospital is first of its kind in Rajasthan. Some of the facilities available for research and diagnosis are:

- Comprehensive diagnostic and management facilities to patients with genetic disorders with trained geneticist and appropriate testing like chromosomal analysis, Multiplex ligation dependent probe amplification (MLPA), Cytogenetic microarray (CMA) or gene sequencing.
- Screening for chromosomal disorders in fetus via prenatal invasive testing chorionic villous sampling and amniocentesis for confirmation of chromosomal disorder in fetus.
- Prenatal testing for genetic disorders in family like Thalassemia major, Spinal muscular atrophy, muscular dystrophy etc.
- The Central Research Facility has PCR (Applied Biosystems) to augment latest research in the University by the Faculty and the Post Graduate Students.
- PGM is being used for the study of Cancer Genetics, Microbial Genetics and other diseases and can be used to diagnose diseases on molecular level, as well as can be used to the field of Research in Genomics.

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Introducing
AdvaGenix India
Most Advanced
Molecular Genetics Lab
in the Country

MGUMST AdvaGenix India

Campus:

- Fetal autopsy services for ultrasonographically detected malformed fetuses for exact diagnosis and risk of recurrence of the disorder in the concerned family.
- The Central Research Facility has PCR (Applied Biosystems) to augment latest research in the University by the Faculty and the Post Graduate Students.
- PERSONAL GENOME MACHINE (PGM) is being used for the study of Cancer Genetics, Microbial Genetics and other diseases.
- The PGM can be used to diagnose diseases on molecular level, as well as can be used to the field of Research in Genomics.
- The Real Time PCR Technology is used to diagnose Infectious Diseases, like Mycobacterium tuberculosis, HIV, Hepatitis, Chlamydia, etc. on genetic level.
- PCR machine is used to develop multiple numbers of DNA fragments.
- The Gradient PCR is mainly used for Research Purposes.



Campus:



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DENTAL SKILL LAB

Campus:

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DENTAL SKILL LAB

Year of Established: 2005

- Dental Laboratory is a backbone of a good dental college and hospital, for rendering a good rehabilitation of the patient. In Dental College, separate labs and individual workstations are present for both the Under-graduates and Post-graduates.
- Different labs include Ceramic lab, casting lab, orthodontics lab, endodontics lab, pre-clinical lab etc.
- The laboratory is equipped with state of the art equipments like Vita ceramic furnace, MultiMate all ceramic furnace, induction casting machine, milling machine to name a few. The laboratory facilitates the fabrication of a variety of dental prostheses of high quality to serve the patients.
- The pre-clinical lab consists of 100 typhodont models which simulates human dentition and oral environment.

Prosthodontics Lab



Campus:



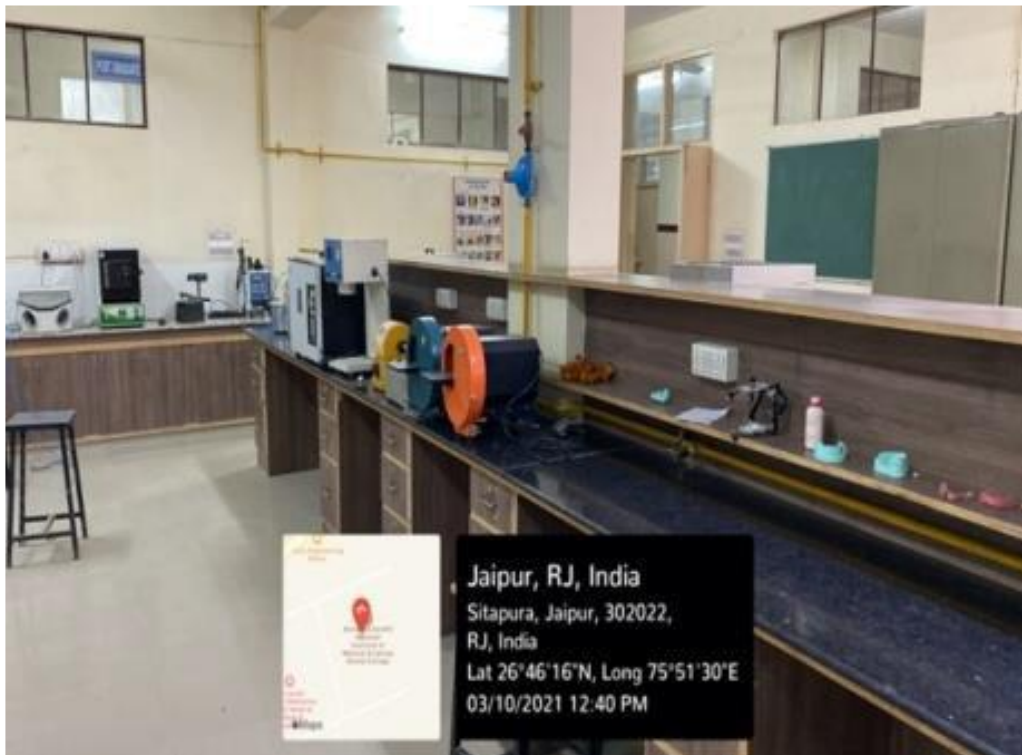
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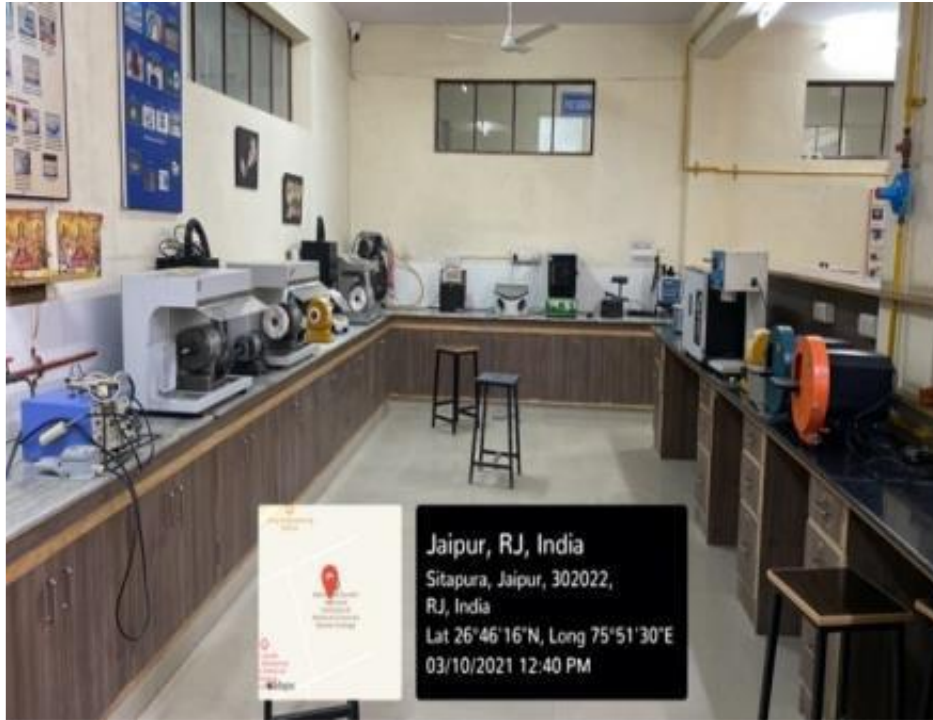
Ceramic Lab



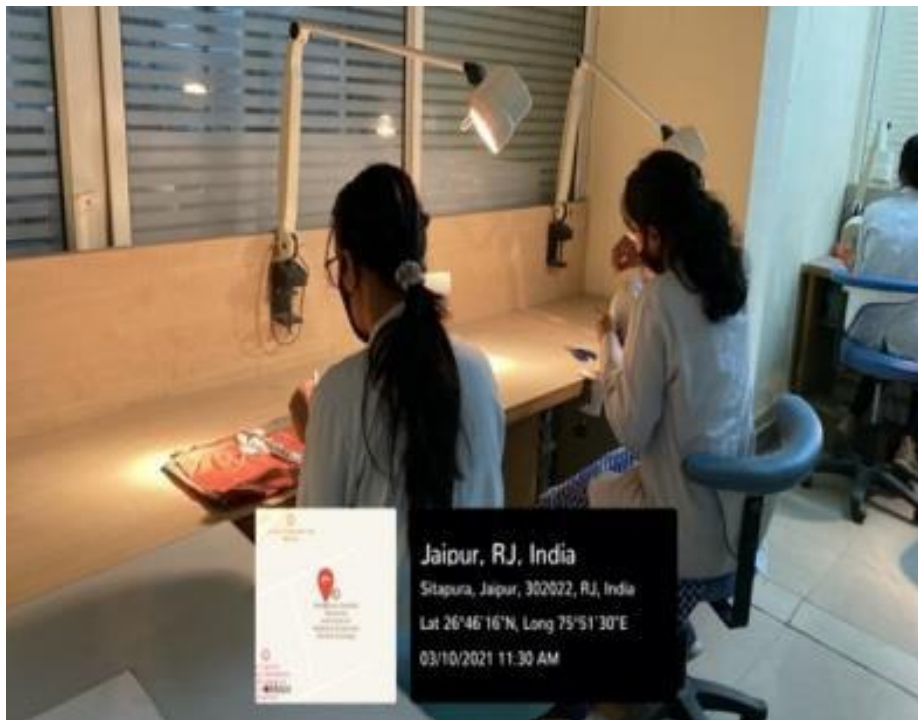
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Pedodontics Preclinical Lab





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Conservative Pre-Clinical Lab



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Oral Pathology Lab

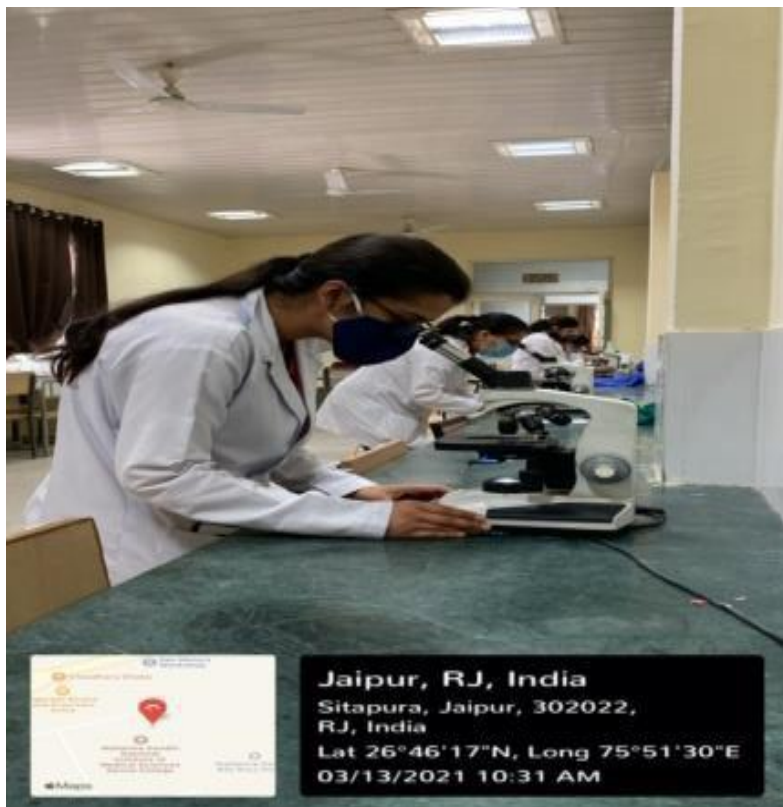


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MGUMST SKILL LAB

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MGUMST SKILL LAB

Year of Established: 2018

- MGUMST Skill Lab is a state of the art, well-equipped training center.
- The major vision of this skill lab focuses around on
 - ✓ Early exposure for medical students to both clinical as well as life support skills
 - ✓ To impart high quality standardized procedural and clinical skills training for interns and junior doctors.
 - ✓ Impart Basic Life Support and Advanced Cardiac Life Support training courses.
 - ✓ Provide ATLS training to all post-graduates and staff.
 - ✓ To introduce Life Support Skills Training into medical and allied curriculum as competency-based education
 - ✓ To educate the community at large about cardiac arrest and basic resuscitation skills.
- Some of the important courses that are practiced and preached here to faculty and post graduates are ATLS, American Heart Association (AHA), Certified Basic Life Support (BLS), Advanced Cardiac Life Support Courses (ACLS).
- This skill lab also serves as the first in state provider of ATLS course.
- It is also the nodal center for Pediatric BLS course.
- In addition to these, we also offer training in Basic Clinical Skills, Basic Surgical Skills and Advanced Airway Skills.

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**LABS OF DEPARTMENTS
ASSOCIATED WITH MEDICAL
COLLEGE**

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LABS OF DEPARTMENTS ASSOCIATED WITH MEDICAL COLLEGE

Medical education is all about gaining the knowledge of how the human body is organized (Anatomy), how the various organs and cells function (Physiology, biochemistry and molecular biology), structural and chemical changes taking place in human system (Pathology and Clinical Biochemistry), agents of diseases (Microbiology, non- communicable diseases, genetics), diagnosis (Clinical Pathology, Microbiology, Biochemistry and molecular biology) agents used for treatment of diseases (Pharmacology) and applying it for the benefit of the society.

Pathology Lab:

- Department has 24 hours functional lab and state of art facilities for the diagnosis.
- Different sub divisions of this lab are present namely, histopathology, hematology, cytopathology, immunopathology.
- Department provides the facilities for routine exfoliative cytology, aspiration cytology, USG and CT guided aspiration.
- The facilities for immunohistochemistry are available for oncology department.

Microbiology Lab:

- Department is having world class facilities for the diagnosis for different kinds of viral, bacterial, fungal, parasitic diseases
- The department is working for prevention of infectious diseases in the hospital

Biochemistry Lab:

- The department has latest facilities and instruments including Electrophoresis apparatus, Chromatography chambers & Spectrophotometer, etc to carry out research in the field related to biochemistry.

Campus:



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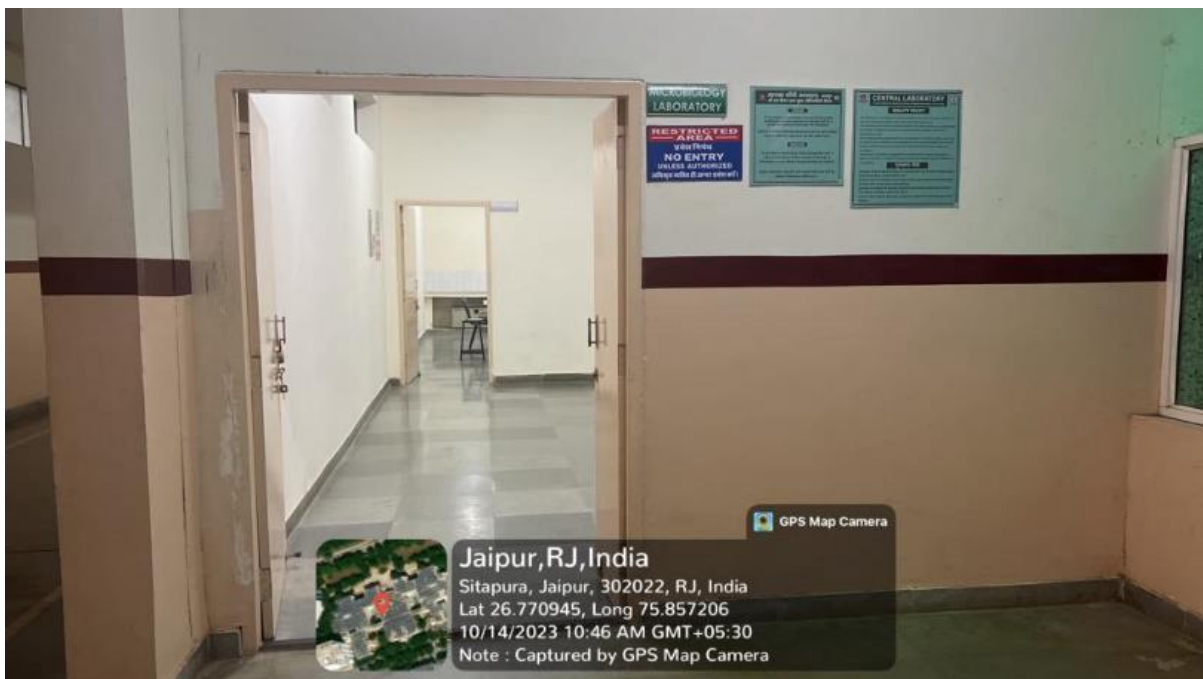


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