

Kasturba Medical College, Mangalore

Kasturba Medical College (KMC), Mangalore was established in 1955 and is spread over 30.78 acres of land. The college comprises of the The Centre for Basic Sciences at Bejai, College administrative offices and paramedical departments at Lighthouse Hill Road, Hampankatta, the KMC Hospitals at Attavar and Ambedkar circle, the district government hospitals (Government Wenlock and Lady Goschen Hospitals) along with nine individualised residential hostels. There is a state of the art sports facility: Marena and auditorium: The Dr TMA Pai Auditorium as part of the Mangalore Campus. There are air-conditioned lecture halls and demonstration rooms with audiovisual aids and well-equipped student labs. KMC, Mangalore is recognized by the Medical Council of India. KMC, Mangalore is the first College in the country to be established under public private partnership model. It is also the Medical College having maximum number of ICMR-short term studentships in the entire country.

The KMC Hospital Laboratory Services are accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL).

The college offers MBBS course with 250 undergraduate admission every year. There are 2 post graduate diploma courses, 17 different broad specialty postgraduate courses. In addition, the college offers MSc courses and 4 fellowship programs. The faculty and students publish quality papers every year in scopus / web of science indexed journals. Student exchange programs as electives run between various universities of Europe, US, Australia and Asia. The laboratory services of the KMC Hospitals are NABL accredited.

Highlights of KMC Departments:

Anatomy: The department encourages voluntary body donation, and eye donation in collaboration with the Department of Ophthalmology. The department employs various methodologies to teach problem-solving, and skills in the psychomotor and attitudinal domains. The microanatomy slides prepared in the department are in overwhelming demand from various other medical, dental colleges all over India. Spacious museum

showcasing around 500 specimens, charts, models etc. Self-learning, e-learning modules in Anatomy developed for free access to students

Biochemistry:

- World class infrastructure
- First NABL certified lab in Mangalore
- Cutting edge research
- Student contribution in the conduct of CMEs, conferences and intercollegiate competitions.
- Screening for inborn errors of metabolism

Pharmacology: recognized as Adverse Drug Reaction Monitoring Centre by Ministry of Health and Family Welfare, Government of India under Pharmacovigilance program of India. The faculty from Pharmacology, along with the clinicians participate in many phase II / III clinical trials in collaboration with top pharmaceutical companies throughout the globe.

Microbiology:

I. **Diagnostics:**

1. CBNAAT- for detection of *M. tuberculosis* and resistance to Rifampicin
2. MGIT- highly sensitive liquid culture method for Mycobacteria
3. PCR, RT-PCR- for Molecular diagnosis of Infectious diseases, and for HIV viral load testing
4. Immunofluorescence (ANA), and ANA profile: for Autoimmune disease diagnosis.
5. Vitek-2 system: fully automated system for Identification and sensitivity testing (by MIC) for bacteria and fungi
6. Bac-T/Alert and BACTEC - Automated blood culture systems- highly sensitive and rapid

II. **Accreditation:** The first diagnostic laboratory in the district and coastal belt of Karnataka to be NABL accredited (since 2008).

III. It is a **recognized State Reference Laboratory** (SRL) for HIV/ AIDS.

Community medicine:

- Active involvement in various projects under the aegis of Ministry of Health and Family Welfare (Government of India), ICMR etc.
- Consistent high ranking in terms of research publication in the renowned national and international journals
- Research collaborations with University of Alabama at Birmingham, USA and University of Arizona, USA
- Health care services to the community in Dakshina Kannada districts through Outreach Health Clinics operated by the department, Primary Health Centres (PHCs) and Community Health Centres (CHCs).

The Department has research collaborations with

- University of Alabama at Birmingham, USA and University of Arizona, USA, University of Arizona - USA
- National Institute of Health and Family Welfare - India
- Monash University - Malaysia
- ICRA Management Consulting Services Limited - India
- Karnataka State Health System Resource Centre (KSHSRC) - India
- Indian Institute of Public Health, Gandhinagar - India
- Karnataka State AIDS Prevention Society (KSAPS) - India
- Karnataka Health Promotion Trust - India
- Achutha Menon Centre for Health Sciences Studies
- Sree Chitra Tirunal Institute of Medical Sciences Technology -India.

Pathology:

- NABL accredited Cytology and Haematology Labs
- NABH accredited largest Blood Bank in Coastal Karnataka
- Histopathology division catering to surgical pathology
- Immunohistochemistry
- Newer diagnostic modalities like flow cytometry, immunohistochemistry, and immunofluorescence are employed in the department for the diagnosis of specific diseases.

- There is a team dedicated to handling and reporting of nerve and muscle biopsies led by a qualified neuropathologist.
- Student encouragement: Gold Medal for Best Outgoing MD Pathology postgraduate is awarded every year. The department conducts G.D.Veliath Memorial Prize Pathology Exam for 5th semester MBBS students of KMC Mangalore and Manipal colleges every year.

OBG:

- Equipped with specialized operation theatre with Laparoscopic and Endoscopic facilities
- Consists of unique mix of national and International students in both undergraduate and post graduates courses

Orthopaedics:

Specializations such as hand surgery, shoulder and elbow surgery, hand and microvascular surgery, total joint reconstruction (arthroplasty), arthroscopy, pediatric orthopaedics, foot and ankle surgery, spine surgery, musculoskeletal oncology, surgical sports medicine and Orthopaedic trauma.

Medicine:

- Sophisticated ART centre providing quality care to more than 1000 registered patients
- Student exchange programme: Every year students from international universities do electives in tropical medicine in our department
- Geriatric clinic: Provides comprehensive geriatric assessment
- A one-year Fellowship in Geriatrics aimed to produce internists with specialty training in the field of Geriatric Medicine. The Fellow will be eligible for a 2-4 week period of observership at the Geriatric Clinic at Carver College of Medicine, University of Iowa, Iowa City, U.S.A. during the Fellowship

Surgery:

- Outstanding innovative skill lab in the department or training both undergraduates and postgraduates
- Innovative laparoscopic procedures
- Indogocarmine dye is used to visualise and assess the vascularity of the bowel, to assess the flap vascularity; to assess the biliary system anatomy on table, to assess the lymph node status in malignancy.

Radiology:

- 1.5 T MRI
- Digital Subtraction Angiography
- Cath Lab
- Digital mammography
- Digital fluoroscopy
- Digital X Ray
- Fellowship in Interventional Radiology (Includes peripheral & Neurovascular) with a focus to achieve competency in Interventional Radiology Procedures

INFRASTRUCTURE AND LEARNING RESOURCES:

1. The Department of Anatomy has a dissection hall of 250 capacity with AC, cold chamber
2. Fully equipped laboratories for practical studies and for UG / PG research
3. Lectures halls are smart classrooms enabled with ICT, LCD, mike and facilities for video recording.
4. KMC Simulation laboratory offers state-of-the-art training and research facility. Equipped with manikins, it enables students gain the experience and insights that are best learned in realistic conditions.
5. The Central Library at KMC, Mangalore is centrally air-conditioned and is well equipped with modern facilities such as e-learning, access to internet and web resources including online journals and e-books.
6. The following are the teaching hospitals of the college:
 - a. KMC Hospital, Attavar, Mangalore
 - b. Government Wenlock District Hospital, Mangalore
 - c. Government Lady Goschen Hospital, Mangalore

They have access to over 1280 teaching beds and provide students with the ideal setting for clinical teaching. Its standards in quality healthcare are the best in the region, and provide an excellent learning experience for students.

RESEARCH:

Research has been in the forefront of medical education at KMC. Research facilities are part of the research infrastructure available to the students and faculty with the aim of performing excellent advancement in their respective field of interest through innovative ideas, ultramodern techniques and collaborative research work to help global community.

MUSRF:

A research forum has been established for the purpose of conducting, regulating and channelizing the student research activities of the college, under the guidance of the Dean and the Associate Deans. Its functions include organizing and sending delegates to interactive sessions and awareness programs pertaining to the field of medical research. The body also commemorates the Students' Research Day annually, recognising students and their research work on a public stage.