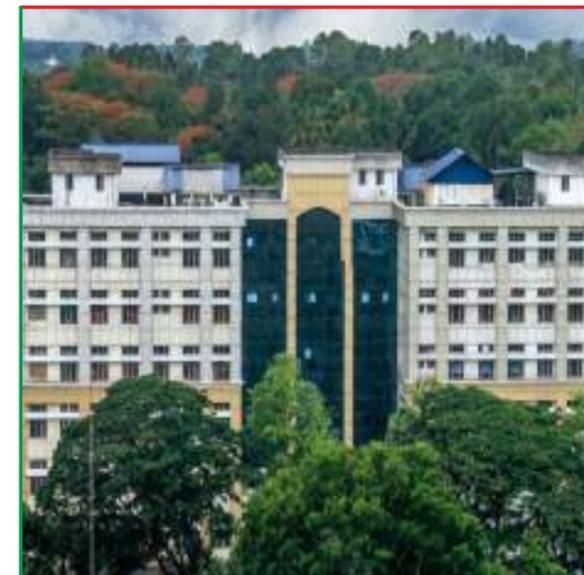




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January 2026

GOVERNMENT MEDICAL COLLEGE Kottayam



GOVERNMENT MEDICAL COLLEGE

Kottayam

**Health and Family Welfare Department
Government of Kerala**

KERALA.HEALTH

GOVERNMENT MEDICAL COLLEGE
Kottayam
Comprehensive Institutional Documentation

Health and Family Welfare Department
Government of Kerala

KERALA.HEALTH



Message



GOVERNMENT OF KERALA

Pinarayi Vijayan

CHIEF MINISTER

No.109/Press/CMD/26

24 January, 2026.

MESSAGE

Kerala's public health system has long been recognised for its commitment to quality, equity, and people-centred care and support. Medical College Hospitals play a key role, functioning not only as apex institutions for tertiary care but also as centres of excellence for medical education, research, and innovation.

The Government is developing Kerala as a 'Knowledge Economy' by laying a strong edifice of various institutions including Medical Colleges. The Medical College Hospital document showcases this commitment through its comprehensive clinical services, specialised departments, and advanced diagnostic and therapeutic facilities developments. It is playing a crucial role in training generations of doctors, nurses, and allied health professionals who serve both within Kerala and beyond all over the world.

This document is an important effort to present the services, achievements, academic activities, innovations, and future vision of the Medical College Hospital to people. It provides valuable insights for policymakers, administrators, and health professionals striving to strengthen Medical Colleges and make them Centres of Excellence.

I commend the dedicated efforts of the entire team who have contributed to the growth of this institution and in preparing this document.

I wish all the success to future endeavours.

Pinarayi Vijayan

The Addl. Chief Secretary
Health Dept.
Email: acskeralahealth1@gmail.com



Smt. Veena George

Minister for Health &
Family Welfare
and Woman & Child Welfare
Development
Government of Kerala

Message

Medical College Hospitals form the backbone of the tertiary health-care delivery system, serving a dual role as centres of advanced patient care and as institutions for teaching, training, and research. Over the years, the Medical College Hospitals have evolved into comprehensive health-care hubs, providing specialized services to people and nurturing generations of competent medical and allied health professionals.

The Medical College Hospital stands as a testimony to the strength of the public health infrastructure, and access to quality tertiary care. Medical Colleges with its multidisciplinary departments, advanced diagnostic and therapeutic facilities, and dedicated workforce, are playing a pivotal role in addressing the complex health needs, and responding effectively to the tertiary healthcare.

This document systematically captures the services, achievements, innovations, academic activities, and future directions of the Medical College Hospital. It guides not only for institutional review but also for sharing best practices, and proposing policy decisions aimed at further improving health outcomes.

I appreciate the collective efforts of the Medical College Team who have contributed to the growth of this institution.

I also appreciate the contribution of the doctors, paramedical staff and support staff for preparation of such an extensive document.

I wish success in all future endeavours.



Veena George



Preface

The Government has been taking various initiatives to build up a 'knowledge economy'. It gives mandate to build institutions entrusted with the responsibility of knowledge transfer in the respective domain areas. The Department of Health and Family Welfare has been taking a multipronged approach for development of health sector. Aardram Mission-1 focused at infrastructure development and Aardram Mission – Nav Kerala Karma Padhathi-2 continued its focus on various health programs and health system improvement measures.

The Department has given utmost importance towards the foundational field of Medical Education. Over time, our various medical colleges and medical college hospitals have been further developed by improving infrastructure, designing patient focused facilities, procuring various modern diagnostic equipment and measures and implementing state-of-the-art treatment avenues. These initiatives are supported by human resource management as well as human resource development. Strong governance of medical education and tertiary healthcare institutions development have resulted into qualitative improvement in health service delivery to all.

While discussing with the team, it was felt that a detailed document of these developments will not only inform regarding developments but it will also help to plan pragmatic future developments in medical colleges and improve health service delivery. The present generation of students will know their institution better and will take a pride in the fact the way these institutions are delivering the results.

This Medical College documentation initiative has been taken with the objective of providing a comprehensive overview of the institution's academic, clinical, administrative, and developmental dimensions. The documentation follows a structured framework covering institutional history, academic offerings, departmental facilities, human resource profile, infrastructure development, specialised programmes, research initiatives, and financial allocation. This approach enables systematic assessment of institutional performance, facilitates benchmarking across medical colleges, and supports informed decision-making at the departmental and policy levels.

Government Medical Colleges are complex institutions that integrate education, service delivery, and research. Effective planning for such institutions demands clarity on capacities, gaps, and future priorities. The preparation of this document has also strengthened internal coordination, data consolidation, and accountability

mechanisms within the institution. Medical Colleges are the worlds within worlds. This was not a simple task. It took months to prepare the documents! Even though to begin with there were questions regarding need of documenting, the teams took continuous efforts and the documents are prepared. The reader may feel that there a few things missed out but these documents will be always the foundation for the next editions and the posterity will understand about its value and utility.

I commend the collective efforts of those who have taken committed efforts to complete the tasks. Principals, hospital superintendents, faculty, administrative teams, and departmental units involved in this exercise.

The institutions are built by all working in the institutions right from the cleaners, security guard to the Principal and Superintendents. The students, both the undergraduate and postgraduate, have the idealism and energy. They should also contribute in a big way to betterment of systems and processes. The seniors should build such enabling environment that encourages taking initiatives in various field of medical science. It is our confidence that such 'thinking students' will not only understand the deeper meaning of gaining knowledge and skills but also put it to practice for the betterment of the society.

I am confident that this document will serve as a valuable reference for policymakers, administrators, and academic leaders, and will contribute meaningfully to the continued strengthening of Government Medical Colleges in Kerala and become the Centre of Excellence.

Dr Rajan Khobragade IAS

Additional Chief Secretary
Health & Family Welfare and
AYUSH Department
Govt of Kerala.



Message

Government Medical College, Kottayam, Kerala's second medical college, has grown into a premier institution of medical education, healthcare, and research. Over the decades, it has evolved into a multidisciplinary centre of excellence, serving patients from across the state while nurturing generations of medical professionals.

This Health Document reflects that journey, highlighting the college's academic strengths, clinical services, infrastructure, and research initiatives. It stands as a testament to the institution's enduring commitment to compassionate care and innovation in medical science.

I commend the Principal, faculty, and staff for preparing this comprehensive report. It will serve as a valuable reference for planning and policy, supporting the Directorate of Medical Education in strengthening Government Medical Colleges across Kerala.

I am confident that this compilation will further reinforce the Government Medical College, Kottayam's role as a leader in advanced medical training, research, and patient care.

Dr. K. V. Viswanathan
Director of Medical Education
Government of Kerala

Message



Government Medical College, Kottayam stands as Kerala's third medical college, established in 1962, with a proud legacy of excellence in medical education, healthcare, and research spanning over six decades. This health document chronicles our enduring journey, showcasing academic achievements, comprehensive clinical services, state-of-the-art infrastructure, and pioneering research initiatives that have shaped generations of healthcare professionals serving Kerala and beyond.

The comprehensive contents reflect our institution's evolution into a multidisciplinary centre of excellence, highlighting robust academic programs, specialized clinical departments, advanced research facilities, and extensive community outreach programs. The unwavering dedication of our faculty, staff, and students has sustained our reputation as a beacon of compassionate care and medical innovation.

This document serves as a strategic blueprint for continued growth, policy formulation, and alignment with evolving national medical education standards. It reaffirms Government Medical College, Kottayam's leadership role in advancing medical training, cutting-edge research, and exemplary patient care across the region.

Dr. Varghese P Punnoose

Principal

Government Medical College, Kottayam

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Chapter 1

MCH OVERVIEW

1.1 Introduction

Medical College Hospital (MCH), Kottayam, is a premier tertiary care teaching institution under the Government of Kerala, functioning as a major referral centre for Central Travancore and adjoining districts. The institution plays a dual role as a centre for advanced patient care and as a hub for undergraduate, postgraduate, and super-specialty medical education, in accordance with national regulatory standards.

The campus is strategically located with excellent road connectivity and serves a large and diverse population. Spread across an extensive land area, the institution comprises academic blocks, hospital complexes, hostels, residential quarters, and supporting service units. The integrated campus design enables seamless interaction between academic teaching, clinical training, research, and community-oriented health services. **(Fig:1)**

MCH Kottayam houses multiple academic departments offering undergraduate, postgraduate, and super-specialty training, supported by well-established hospital services and community training units. The institution is recognized by the **National Medical Commission (NMC)** and affiliated with the **Kerala University of Health Sciences (KUHS)**. Over the years, it has evolved into a key government institution delivering high-quality, affordable healthcare while contributing significantly to medical education and public health in the state.

Key features of the institution include:

- Comprehensive tertiary care services with super-specialty support
- Integration of academic teaching with clinical and community-based training
- Strong referral linkage within the public health system
- Accessibility through major transport corridors
- Commitment to ethical practice, equity, and service to society

Master Plan

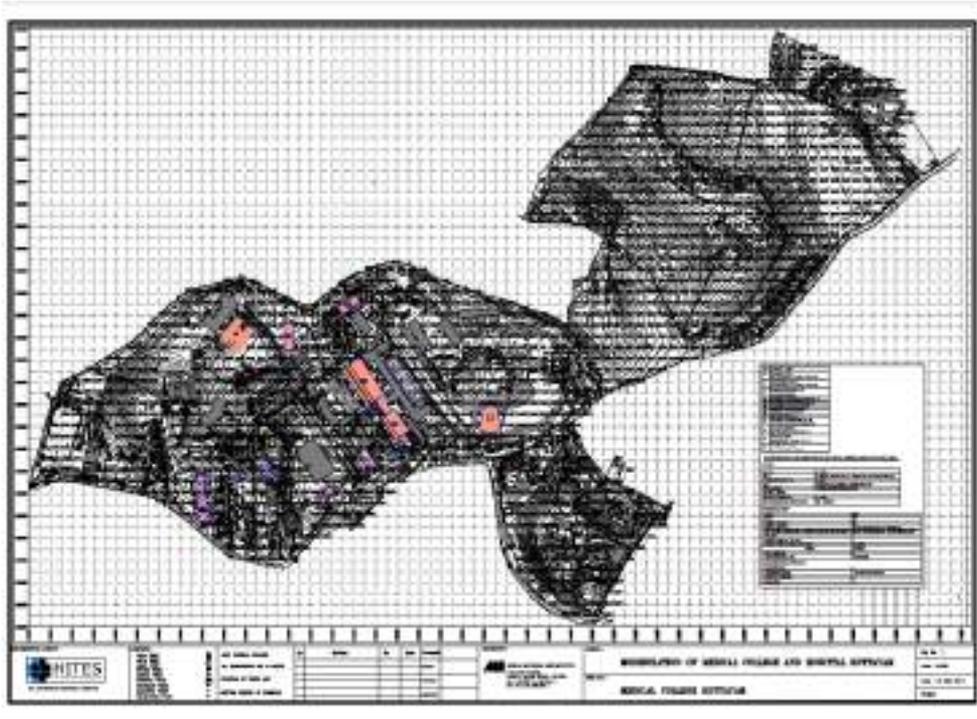


Fig: 1 MCH masterplan

1.2 History

Government Medical College, Kottayam, the third Medical College in Kerala, was established in 1962. It was formally inaugurated on 03.12.1962 by Sri. R Sankar, the then Chief Minister of Kerala in the presence of Sri. M P Govindan Nair, the Health Minister. (**Fig:2**)

It was established with the objective of strengthening medical education and improving access to tertiary healthcare services in Central Kerala. Since its inception, the institution has undergone continuous expansion in terms of infrastructure, academic programs, and clinical services.

Initially functioning with a limited number of departments and hospital beds, the institution progressively expanded to meet the growing healthcare demands of the region. The establishment of new departments, introduction of postgraduate and super-specialty

courses, and phased enhancement of hospital infrastructure marked significant stages in its growth.

The transition to an expanded campus and the development of modern hospital blocks represented a major milestone in the institution's evolution. Over time, advanced diagnostic facilities, specialty clinics, and high-end medical services were introduced, strengthening the institution's role as a referral centre. Alumni of the institution have made notable contributions to medical education, clinical practice, research, and public health services across the state and beyond.



Fig:2 MCH Kottayam inaugural in 1962 by Sri. R Sankar, Chief Minister of Kerala

It has a campus which spreads across 265 acres of beautiful land shared by two panchayats (Arpookkara and Athirampuzha) and Kottayam municipality. This is a tertiary care hospital catering to people from five districts including Kottayam, Idukki, Alappuzha, Pathanamthitta and Ernakulam. This is the referral hospital for lakhs of pilgrims visiting Sabarimala temple. The world-renowned tourism spot Kumarakom, is just 14 kilometers away.

1.2.1 Historical Milestones

The major historical milestones in the development of Medical College Hospital, Kottayam, are summarised below. Minor and department-specific developments are elaborated within the narrative sections of this chapter and subsequent chapters.

1961	First batch (1961 batch) of 50 MBBS students were selected and accommodated at Medical College, Thiruvananthapuram from 01.08.1961.
1962	<p>Site for the Campus was identified in 1962 and acquisition began. This area was the confluence of 3 panchayaths, viz; Kumaranalloor, Athirampuzha and Arpookara and formed part of the territorial limits of 3 villages also, ie; Perumbaikkad, Athirampuzha and Kaipuzha (Present day Arpookara). Dr. CM Francis was appointed as Principal and Special Officer of the Medical College Kottayam. He took over on 07.05.1962 and started functioning from Kottayam town. Semi-permanent buildings were constructed to house the college and two hostels (one for 100 male and the other for 50 female students). Second batch (01.08.1962) of 50 students were also accommodated at MC Thiruvananthapuram. The Inspection Commission of the Kerala University visited the college on 07.10.1962 for assessing the facilities; affiliation was granted on the basis of the Commission's report. 1962 admission (II batch - 50 students) accommodated at Thiruvananthapuram, joined the Arpookara Campus on 03.12.1962, after 3 months (September to November 1962) at TVM. The Medical College was formally inaugurated on 03.12.1962 by Sri. R Sankar, the Chief Minister of Kerala in the presence of Sri. M P Govindan Nair, the Health Minister. Campus on the day of inauguration consisted of the semi-permanent buildings to house pre-clinical and para-clinical departments, library, animal house,</p>

	store, Ladies hostel (now DCK) and Men's hostel (now MHSQ) besides the PWD office and 7 acquired buildings.
1963	1961 admission (First batch – 50 students) joined the campus on 06.01.1963 after first MBBS at Thiruvananthapuram.
1964	The District Hospital at Kottayam was brought under MCK and used as teaching hospital (MCH Kottayam) from January 1963 onwards; a 100 bedded block for Medicine and surgery and another 116-bedded block for O & G and Paediatrics were constructed in the DH complex in 1963 and 1964, making it a total of 216 teaching beds. The III batch (1963) with an increased strength of 60 students was admitted at MCK itself on 01.08.63. Construction of permanent buildings for hostels for men and women, quarters etc were undertaken from 1963. Annual intake increased to 80 from the 1964 batch. An area of 2.3 square miles around the campus was declared as Controlled Area and “Kottayam Medical College Area Development Authority” was constituted to ensure proper development.
1965	The MC Health Centre at Ettumanoor was established in 1965, abolishing the Govt. Dispensary there.
1969	Construction of E, F, G block and Kitchen block of MCH at Arpookara was completed.
1970	Construction of the present OP block and laundry of MCH at Arpookara was completed. Medical College Hospital at

	<p>Arpookara was formally inaugurated by the then Minister for Health, Sri. K.M. George on 14.04.1970. Departments of Medicine & Surgery were shifted from District Hospital (DH) Kottayam to MCH Arpookara. Other departments continued to function at DH Kottayam. MCH, Kottayam campus in 1970, consisted of the semi-permanent buildings to house pre & para clinical departments, library, animal house, college office & central workshop (earlier women's hostel and now part of DCK), pharmacy, MCH E,F,G block, laundry, kitchen block, women's hostel (now MHSQ), men's hostel, PHED, PWD office & store, Quarters type A: 01-10, B: 01-13, C: 01-17, D: 01-05, E: 01-16, F: 01-16, G: 01-34, and 7 no's of acquired buildings.</p>
1973	<p>PG Courses (MS Surgery & MD Medicine) started from 1973-74. (01.06.1973)</p>
1974	<p>Construction of A, B, C block of MCH at Arpookara was completed; other major departments were shifted from DH Kottayam to MCH Gandhinagar in 1974 & 75. The Campus and the surrounding locality were christened as Gandhinagar.</p>
1975	<p>ESI hospital with its quarters and campus was taken over from ESI Corporation on payment and converted as Institute of Child Health in April 1975, shifting the Paediatrics dept from DH Kottayam.</p>
1977	<p>Strength of admission increased from 80 to 85 during 1977-78; bed strength stood at 837.</p>

1979	Annual intake of MBBS increased to 100 from 1979-80 admission onwards.
1980	Affiliation was shifted to Gandhiji University (renamed Mahatma Gandhi University later) when it was established in 1980's bifurcating the Kerala University.
1982	College of Nursing, Kottayam, started functioning from May 1982 with 25 B.Sc (Nursing) students. Due to lack of facilities at MCK, it was accommodated at the college of nursing TVM.
1985	The new MC administrative block opened in Oct.1985. College of Nursing shifted to Gandhinagar in November 1985; started functioning from the space vacated by the college office (present Dental College).
1994	Pathology, Microbiology, Pharmacology and library shifted to the new C block.
2001	Dental College started functioning in the campus.
2003	4 major constructions started: (a) Construction of phase 1 of Cardiology – Cardiothoracic block started, estimate -320 lakhs. (b) Construction of the (C2 block) intended for housing the remaining depts. Viz., Anatomy, Physiology, Biochemistry,

	<p>and Comm. Medicine, which were still functioning in the temporary buildings put up in 1962,</p> <p>(c) 300 bedded hostel for nursing students,</p> <p>(d) Obst. & Gynaecology block-Phase I.</p>
2004	Inauguration of Dental College building.
2005	Inauguration of learning resource center – January. Inauguration of Vali’s children’s cancer care center (Leukemia ward) in ICH October. Telemedicine project started functioning.
2006	Increase of MBBS annual intake from 100 to 150.
2008	Inauguration of Cardiac Catheterization Laboratory. Continuous Renal Replacement Therapy (CRRT) Machines installed meeting the expenditure out of MP’s fund (Sri. Suresh Kurup, MP, Kottayam). Linear Accelerator costing Rs. 700/- lakhs: – Unit reached.
2010	Inauguration of Examination Hall, Library, House Surgeons Hostel. Ladies Hostel Annexe, Biogas plant for Rs. 20 lakhs, started Linear Accelerator for Radiotherapy – Rs. 7 crores in the process of installing MRI Scan Inaugurated. PG Seats enhanced. Total PG seats: 28. Trauma Care Centre Inaugurated on 4th September 2010.

2011	<p>Linear accelerator for cancer treatment, New Cardio Thoracic block for heart surgery and new block for Obstetrics and Gynecology inaugurated.</p> <p>The increased 50 seats of MBBS received recognition from the Medical Council. Got first three ranks in the M. G. University final MBBS examination. Started P.G. Courses in Radiodiagnosis and Biochemistry.</p>
2012	<p>An Electrical substation was constructed to cater to the increased power consumption. A Central lab, where all tests for patient care are done under one roof was started. The Radio-diagnosis Department was renovated.</p> <p>Started D.M. Course in Gastroenterology Department and M.D. course in Physical Medicine and Rehabilitation and Paediatric Surgery. Started B.C. V.T. Course. A medical Exhibition was conducted as part of the Golden Jubilee Celebrations.</p>
2013	<p>The Obstetrics and Gynaecology Department was completely shifted to the new building. The Kadavar transplant unit was started. Started the construction of a new Casualty block, P G Residents' quarters, Critical care unit, and a Geriatric care unit.</p> <p>Increased P G. seats of ENT, Anaesthesia, Gynaecology, Pathology, and Paediatrics received recognition from the Medical Council.</p>

2014	<p>Cardiology and Cardiothoracic departments were completely shifted to the new building. The department became the first institute in Asia to perform more than 1000 open heart surgeries.</p> <p>Started the construction of the new building for the College of Pharmaceutical Sciences. Paediatric surgery theatre started functioning. Karunya Pharmacy, a new pay and park facility, and 3 biogas plants for waste disposal were started. Received the recognition for the new P G courses, started in the Biochemistry and Cardiothoracic surgery departments. MCI approved the Medical Education Centre here as the Nodal Centre.</p>
2015	<p>The following projects started functioning: Critical Care Unit, Cochlear Implant unit, Tele Ophthalmology Unit, Infertility Treatment Centre, Geriatric Care ICU, Drug Analysis Lab, Renovated ward 3, Dialysis centre with 30 dialysis units.</p>
2016	<p>First Transgender clinic in India and various surgeries for transgender patients started. Started heart transplant surgery programme - first time in a government sector. Started cardiac rehabilitation centre first time in Kerala in Government sector. Pay ward and staff sick room was started in the Gynaecology Department. Pharmacy substore for Gynaecology and Cardiology departments. The Central sterile Supply Department (CSSD) became fully functional.</p>

<p>2018</p>	<p>New casualty block in 6 floors divided into Triage, Yellow Zone and Red zone, including 6 operation theatres, Digital radiography machine, 24hours pharmacy etc. Renovated OP under the Ardrum project, a resting place for bystanders, 24 hours lab, Health Education Centre are inaugurated in Gynaecology department. A modular theatre for renal transplantation was inaugurated. Mortuary block renovated. 14 P. G. seats got MCI recognition. MBBS seats were enhanced from 150 to 175. The unit of in-service nursing education was established on 1st July 2018.</p>
<p>2019</p>	<p>Second Cardiac Cath-lab started functioning. Became first in the country in the number of primary angioplasties. Renovated internal roads, Early intervention and Autism Centre, Retina unit with modern facilities, Onco-Surgery Department, Paediatric Cardiac Surgery ICU and ECHO Machine. Renovated Trauma ward, Cancer ward, Psychiatry ward, Neuro Surgery ICU, CAPD ICU in Nephrology Department, Green Protocol Project, etc. are inaugurated. Major equipment like 128 Slice CT Scan, Laparoscopic machine for key hole surgery, Single Balloon enteroscope etc. were purchased.</p>

<p>2020</p>	<p>Ardram Phase 2 Projects—Computerized primary waiting area, Orthopedics, Cardiology, Nephrology, Neuro medicine departments secondary waiting area, Cancer OP, Computerized Cardiology OP were inaugurated. Modular Operation theatres in the Gynecology department and Pediatrics department started functioning. Renovated Biomedical Department and Calibration lab, C T Simulator, Power laundry, Cancer, Orthopedics ICU facilities, Toilet Complex, Material Collection Facility (MCF). The renovated Superintendent Office was inaugurated in the month of January 2020. P.G. Residential quarters having 100 apartments, 450 bedded Ladies Hostel, Negative Pressure ICU, second Toilet Complex, New wards and ICU in Casualty block are inaugurated in the month of September 2020. Started B.Sc. Perfusion Technology, B.Sc. Dialysis Technology and diploma course in CSSD (Central Sterile Services Department)</p>
<p>2021</p>	<p>MRI Machine, D.S.A Machine, Second Linear Accelerator, Laqshya Project in Obstetrics and Gynaecology Department consists of 6 LDR suites, 2 Operation Theatres, ICU ,and facilities for painless labour, House Surgeons' Quarters, New Medical ward, BurnsWard, Skill Lab, Multi-Disciplinary Research Unit, Lady's waiting area, Ramp, Toilet and Examination Hall in Institute of Child Health, Cloth washing and drying area, ICH Canteen, Oxygen generator building were inaugurated in the month of February 2021. Nursing College Auditorium, Renovated 7,8 wards, Oxygen Generator in ICH, 750KV generator, Nephrology lab are</p>

	inaugurated in the month of September 2021. Started D.M. course in Infectious Disease.
2022	Pharmacy College New building; Renovated material Collection facility; Aerobic composting unit; Biogas plant; ICU Casualty- built under Emergency Covid Response Plan-2; Renovated Nursing Office; renovated O.P. Pharmacy; 3 modular operation theatres in casualty; Stroke unit; Integrated analyzer in Clinical Biochemistry lab are inaugurated. The prestigious Arogya Manthan 3.0 national award for providing the highest number of free treatments under the AYUSHMAN Bharat Pradhan Mantri Jan Arogya Scheme and Best Performer award of MEDISEP were bestowed. First living-donor liver transplant in Kerala government sector in 2022. Recognitions from LaQshya (Labour Room Quality Improvement Scheme of NHM) and certificates of Mother and Baby Friendly Hospital Initiatives.
2023	A+ grade for KUHS QAS accreditation, First cadaver liver transplant in 2023. Inauguration of Diamond Jubilee celebrations
2024	Renovations of Lecture halls, demonstration rooms, library, Inauguration of amphitheatre, sports complex as part of the Diamond Jubilee celebrations by Alumni association
2025	Emergency department established NABH accreditation for ED awarded, India's third Lung Transplant in Government sector and the first in the state on October 22, 2025.

1.2.2 Institutional Identity

Medical College Hospital, Kottayam, functions as a government institution under the administrative control of the Directorate of Medical Education, Government of Kerala.

Institutional particulars:

- **Name:** Government Medical College Hospital, Kottayam
- **Location:** Kottayam District, Kerala
- **Affiliation:** Kerala University of Health Sciences (KUHS)
- **Regulatory Recognition:** National Medical Commission (NMC)
- **Governance:** Government of Kerala

The institutional emblem and identity reflect the core values of service, learning, and commitment to public welfare. The institution continues to uphold these values through its academic, clinical, and community-oriented activities.

Overview

Government Medical College Kottayam is a 2178-bedded hospital which has about 3000 out-patients and more than 500 emergency patient visits per day. The number of in-patients being treated in this hospital is more than one lakh annually. There are 327 regular teaching faculty and more than 1550 non-teaching staff working in this institution. Annual intake for medical undergraduate courses is 175 and that for post-graduation is 146. Total annual intake for pharmacy and other para-medical courses is 196. **(Fig:3)**



Fig:3 MCH Kottayam

This college, in its sixty years of development, has become one of the top-graded academic institutions and along with that, won the trust and hope of the common man in Central Kerala as a center of excellence for advanced treatments. On the academic front, it is recognized as the Regional Medical Education Center of the National Medical Commission. On the clinical side, while the general specialty departments have set excellent standards of academics and patient care, the sub-specialties have made their mark by becoming pioneers and leaders in organ transplants like heart, kidney and liver and in performing advanced interventions and complex operations. The Department of Cardiology has the distinction of performing the highest number of primary angioplasty in India. The first heart transplant in government sector medical colleges in India was performed by the CTVS Department in this hospital. A test tube baby was born for the first time in Kerala in the Department of Obstetrics and Gynecology of this hospital. The Departments of Orthopedics and Plastic Surgery perform the highest number of trauma surgeries and micro vascular surgeries respectively in Kerala. The first liver transplant surgery in the government sector was done in 2022 in the Department of Surgical Gastroenterology. First multidisciplinary Transgender Clinic in India at the government sector began here in 2017. We are also the pioneers in Tertiary Care Palliative Services and Cardiac Rehabilitation Services in Kerala. The way in which COVID 19 pandemic was handled in this institution attracted global acclaim recently.

The prestigious Arogya Manthan 3.0 national award for providing the highest number of free treatments under the AYUSHMAN Bharat Pradhan Mantri Jan Arogya Scheme and Best Performer award of MEDISEP were bestowed on this institution in 2022. Recognitions from LaQshya (Labour Room Quality Improvement Scheme of NHM) and certificates of Mother and Baby Friendly Hospital Initiatives are reflections of the big strides in quality of mother and baby care in this hospital. In its diamond jubilee year the institution is aspiring for NABH accreditation, KUHS accreditation and NIRF Ranking.

VISION, MISSION AND QUALITY POLICY**Table:1 Vision, Mission and Quality Policy**

VISION	<ul style="list-style-type: none"> ❖ We envision a centre of excellence in medical education, innovation and comprehensive health care upholding evidence-based practices, ethical values and human dignity.
MISSION	<ul style="list-style-type: none"> ❖ To provide affordable, high quality tertiary care practices of international standards to humanity. ❖ To promote excellence in medical education, training: Our primary mission is to deliver comprehensive and high-quality medical education that equips students with the knowledge, skills, and attitudes necessary for clinical practice and research. ❖ To promote excellence in research: We are committed to advancing medical knowledge and improving patient care through cutting-edge research. Our mission is to foster a vibrant research culture that encourages faculty, students, and staff to engage in interdisciplinary research, explore new frontiers in medical science, and contribute to the global body of knowledge.
QUALITY POLICY	<ul style="list-style-type: none"> ❖ To provide honest, unparalleled, comprehensive, effective, and quality patient care. ❖ To ensure that patients are treated with due respect, compassion, empathy, and a sense of security.

	<ul style="list-style-type: none"> ❖ To continuously improve and update our services in compliance with National Quality Assurance Standards.
VALUES	<ul style="list-style-type: none"> ❖ Focus on patient and patient care. ❖ To provide excellent patient satisfaction. ❖ Treating all people with respect and dignity. ❖ Acting always with almost integrity. ❖ Creating value for the society we live in. ❖ Service with empathy and compassion. ❖ Teamwork – Partnering for success. ❖ Accountability being responsible and taking action. ❖ Excellence through education. ❖ Use existing treatment in the best possible ways to uphold research and ethical practices.

We are dedicated to providing compassionate and evidence-based care to individuals and communities, emphasizing preventive healthcare, early diagnosis, and comprehensive treatment.

1.3 Administration

The administration of Medical College Hospital, Kottayam, is structured to ensure efficient governance, academic excellence, and high-quality patient care. The institution operates under a well-defined governance framework aligned with government regulations and university norms. **(Fig:4)**

The Principal heads the academic administration, while the Medical Superintendent oversees hospital administration and clinical services. The Vice Principal supports academic governance and coordination. These key functionaries are supported by administrative

officers, section heads, and institutional committees responsible for various operational domains.

Digital systems have been progressively introduced to enhance administrative efficiency, including hospital information systems, academic management platforms, and e-governance mechanisms. The administrative philosophy of the institution emphasizes transparency, accountability, participatory decision-making, and continuous quality improvement.

Organogram

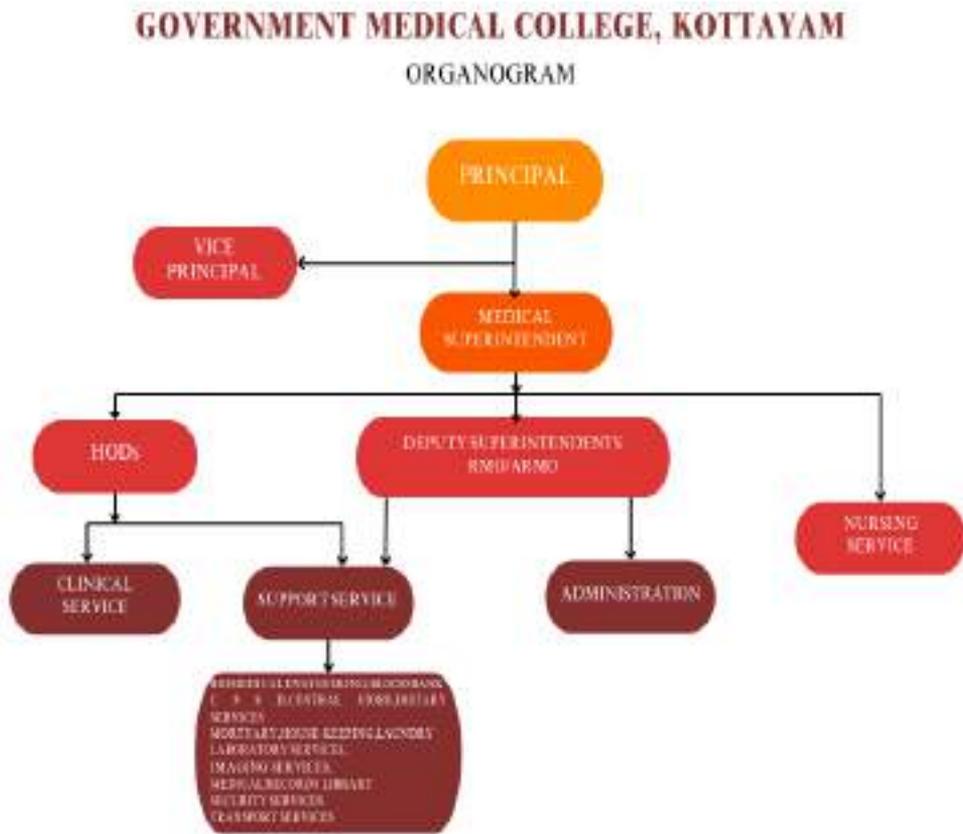


Fig:4 Organogram, MCH Kottayam

1.3.1 Administrative Structure



Dr Cyril jacob Kurian
Deputy Superintendent

Fig:5 Administrative Team

1.3.2 Roles and Responsibilities

PRINCIPAL - Dr. Varghese P. Punnoose

Head of the institution, provides strategic leadership in curriculum development, research promotion, and institutional growth, oversees all academic departments, faculty development, and policy implementation. Represents the institution at university, government, and accreditation bodies.

VICE PRINCIPAL - Dr. Ajithkumar K

Assists the principal in academic administration and institutional coordination, supervises academic schedules, examinations, faculty responsibilities, and student-related matters.

SUPERINTENDENT – MCH - Dr. Jayakumar T. K

Administrative head of the main hospital block, responsible for functioning of clinical departments, patient care delivery, and hospital operations, oversees staffing, emergency preparedness, and quality of medical services.

SUPERINTENDENT – ICH- Dr. Jayaprakash K. P

Leads the pediatric hospital unit, manages all child-health services, and supervises hospital policies, patient safety protocols, and emergency pediatric care.

RMO – Dr. Sam Christy Mamman

Coordinates daily clinical work, intern duties, and resident postings. Ensures availability of medical staff for emergency and routine services. Acts as a key link between clinicians, nurses, and administrative authorities.

ARMO – Dr. Lijo K. Mathew

Works in collaboration with the RMO to manage hospital workflow.

Deputy Superintendent (General) - Dr. Ratheeshkumar R

Supports overall hospital administration, logistics, and infrastructure management, oversees maintenance, sanitation, biomedical waste management compliance, and service departments. Ensures adherence to safety protocols and statutory regulations.

Deputy Superintendent (OBG) - Dr. Anjaly Prem

Leads the OBG block, manages all Gynec. & Maternal health services, supervises hospital policies, patient safety protocols, and emergency obstetric care. Nodal officer of e-health services.

Deputy Superintendent (Casualty) - Dr Cyril Jacob Kurian

Plays a role in supervising outpatient, inpatient, and emergency workflows.

ADMINISTRATIVE FLOW CHART |



Fig: 6 Administrative Flow chart

1.3.3 Institutional Committees

The institution functions through a network of statutory and functional committees that support governance, quality assurance, ethics, patient safety, research oversight, and academic monitoring. These committees play a vital role in ensuring adherence to regulatory standards and institutional policies.

Succession List of Principals

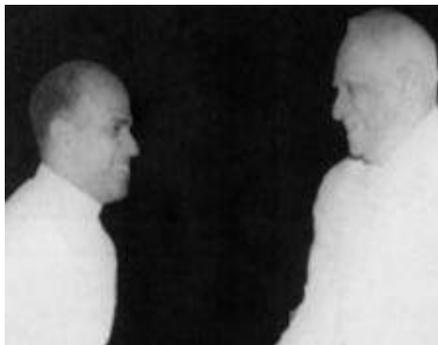


Fig:7 Prof. C. M. Francis (1st Principal) with Sri. V. V. Giri (President of India)

Table:2 Succession List of Principals

Sl. No	Name	Period
1	Dr C M FRANCIS	07/05/1962 to 09/07/1972
2	Dr R Kesavan nair	07/05/1965 to 30/04/1966
3	Dr N Radhakrishnan	23/09/1966 to 13/05/1967
4	Dr K R Pandalai	10/07/1972 to 30/04/1978
5	Dr Samu Iyer	01/05/1978 to 27/07/1979
6	Dr M Balaraman Nair	28/06/1979 to 30/04/1981
7	Dr C P Madhavankutty	01/05/1981 to 30/04/1986
8	Dr V Kanthaswamy	06/06/1985 to 30/06/1985
9	Dr Molly Phillip	02/06/1986 to 30/04/1988
10	Dr Sara Varghese	30/05/1988 to 30/04/1989
11	Dr K R Harilal	08/05/1989 to 30/04/1991

12	Dr Elizabeth Thomas	30/04/1991 to 30/04/1993
13	Dr P Sivasankara Pillai	17/05/1993 to 31/03/1994
14	Dr George paul	05/04/1994 to 31/05/1995
15	Dr Elizabeth Varughese	08/06/1995 to 30/04/1997
16	Dr Madanmohan (I/c)	01/05/1997 to 10/09/1998
17	Dr M Shereefa Beevi	11/09/1998 to 30/04/1999
18	Dr Madanmohan (I/c)	01/05/1999 to 30/04/2000
19	Dr P Chandramohan	01/05/2000 to 03/05/2001
20	Dr K A Kumar	04/05/2001to 08/05/2002
21	Dr P Chandramohan	09/05/2002to 14/05/2004
22	Dr. N Sudhayakumar	15/05/2004to 30/04/2007
23	Dr. A Meharunnisa	01/05/2007 to 31/05/2012
24	Dr. A Remla Beevi	08/06/2012 to 16/05/2015
25	Dr. Raju Jacob (I/C)	15/09/2015 to 03/05/2016
26	Dr. Jose Tom	04/05/2016 to 30/05/2016
27	Dr. Jose Joseph	20/06/2016to 30/04/2020
28	Dr. P P Mohanan	02/06/2020to 30/04/2021
29	Dr. K P Jayakumar	29/07/2021to 30/04/2022
30	Dr. S Sankar	07/07/2022to 31/05/2024
31	Dr. Varghese P Punnoose	01/06/2025 - Continuing

Succession List of Superintendents**Table:3 Succession List of Superintendents**

Sl. No.	Name	From Date	To Date
1	Dr. K. Parameswaran	03.12.1962	1968
2	Dr. Mary Philip	1968	1972
3	Dr. Mathew Varghese	09/1969	09/1974
4	Dr. T. A. Joseph	10/1974	01/1977
5	Dr. J. S. Sathyadas	02/1977	02/1979
6	Dr. C. P. Mathew	03/1979	03/1982
7	Dr. K. I. Kuriakose	04/1982	12/1983
8	Dr. K. P. Thomas	12/1983	04/1986
9	Dr. Jacob Zachariah	08/1986	03/1988
10	Dr. P. G. Ramakrishma Pillai	03.03.1988	30.11.1994
11	Dr. P. Chandramohan (I/C)	01.12.1994	16.02.1995
12	Dr. C. Radhakrishnan	17.02.1995	17.09.1998
13	Dr. P. Chandramohan	18.09.1998	22.03.2002
14	Dr. P. Balachandran	23.03.2002	30.04.2004
15	Dr. P. Asokan	01.04.2004	15.02.2006

16	Dr. M. J. Cyriac	16.02.2006	15.06.2006
17	Dr. C. P. Vijayan	16.06.2006	15.06.2008
18	Dr. P. K. Balakrishnan	16.06.2008	10.08.2011
19	Dr. Tigy Thomas Jacob	11.08.2011	07.07.2016
20	Dr. T. K. Jayakumar	08.07.2016	Continuing

1.4 Conclusion

Medical College Hospital, Kottayam, stands as a mature and evolving institution that integrates medical education, tertiary healthcare delivery, research, and community service. Its steady growth, strong governance framework, and commitment to public health have positioned it as a key pillar of the government healthcare system in Kerala. The institution continues to build upon its legacy while preparing to meet emerging healthcare and educational challenges.

Chapter 2

MCH DASHBOARD

GMC Kottayam offers a comprehensive range of undergraduate, postgraduate, and super-specialty programs:

- **Undergraduate:** MBBS (175 seats annually), BDS, BSc Nursing, and Allied Health Sciences (e.g., Radiological Technology, Medical Laboratory Technology, Ophthalmic Technology, Pharmacy).
- **Postgraduate:** MD/MS (108 seats across 22 disciplines) and diploma courses in basic specialties.
- **Super-Specialty:** DM/MCh (18 seats in 9 disciplines, including Urology, Neurosurgery, Cardiothoracic Surgery, Plastic Surgery, and Pediatric Surgery). Admissions are merit-based via NEET-UG, NEET-PG, and NEET-SS exams, with a focus on rigorous house surgeoncy training that prepares graduates for advanced studies. Also, many pursue PG courses despite limited national seats.

Affiliated Hospital and Clinical Training

The college is integrated with a 2,100-bed tertiary care Medical College Hospital (MCH), serving five central Kerala districts (Kottayam, Idukki, Alappuzha, Pathanamthitta, Ernakulam). It handles over 500 daily pediatric outpatients at the Institute of Child Health (established 1975, 1.5 km from campus) and supports community health initiatives like the KMCHC under the Department of Community Medicine. With 450 doctors and 2,000 staff, the hospital provides hands-on training in curative and preventive care.

Infrastructure and Facilities

The campus features state-of-the-art labs, spacious lecture halls, a modern digital library, auditorium, simulation center, sports facilities (indoor/outdoor), and a cafeteria. Hostel accommodations are available for male and female students (subsidized at Rs. 50/month), with amenities like Wi-Fi, 24/7 security, and mess services. Additional conveniences include on-campus banking, post office, co-operative stores, and a guest house. The institution emphasizes research, with dedicated faculty support for student projects.

Academic Provisions

Courses

Government Medical College, Kottayam conducts MBBS Course, PG Courses, PG Super speciality Courses and paramedical courses affiliated to the Kerala University of Health Sciences.

Details of Courses and Seats

2.1 Undergraduate Courses

Medical College Hospital, Kottayam, offers undergraduate medical education through the **Bachelor of Medicine and Bachelor of Surgery (MBBS)** programme, conducted in accordance with the regulations prescribed by the National Medical Commission (NMC) and affiliated to the Kerala University of Health Sciences (KUHS).

The undergraduate programme follows a **Competency-Based Medical Education (CBME)** framework, emphasizing early clinical exposure, integrated teaching, skill development, ethics, communication, and community orientation. Teaching-learning methods include lectures, small group discussions, problem-based learning, skill lab training, and supervised clinical postings.

Undergraduate Programme details

Programme	Duration	Intake Capacity	Affiliation	Recognition
MBBS	4½ years + 1 year internship	As per NMC sanction	KUHS	NMC

The institution provides structured clinical exposure across pre-clinical, para-clinical, and clinical departments, supported by well-equipped laboratories, simulation facilities, and hospital wards. Community-based training forms an integral component of the undergraduate curriculum.

Admission to M B B S Course is from NEET Rank list and 15% of the total seats are admitted through Medical Counselling Committee (MCC) under the Director General of Health

Services, Government of India, New Delhi and the rest 85% is done by the Commissioner for Entrance Examinations,(CEE) Kerala.

2.2 Postgraduate Courses

Medical College Hospital, Kottayam, offers a wide range of **postgraduate degree programmes (MD/MS)** across major clinical and non-clinical specialties. These programmes aim to produce competent specialists with strong clinical, academic, and research capabilities.

Postgraduate training is conducted in accordance with NMC regulations, with emphasis on: Advanced clinical training, Evidence-based practice, Research methodology and dissertation work, Teaching and academic responsibilities.

P G Courses

Table: 4 P G Courses

Sl.No.	Speciality	Total No. of Seats
1	MD Anaesthesiology	14
2	MD Anatomy	2
3	MD Biochemistry	2
4	MD Community Medicine	2
5	MD Dermatology Venerology and Leprosy	5
6	MD Forensic Medicine	2
7	MD General Medicine	14
8	MD Microbiology	2
9	MD Paediatrics	10
10	MD Pathology	8
11	MD Pharmacology	2
12	MD Physical Medicine and Rehabilitation	1
13	MD Physiology	2
14	MD Psychiatry	2

15	MD Pulmonary Medicine	2
16	MD Radiodiagnosis	1
17	MD Radiation Oncology	2
18	MS Otorhinolaryngology	6
19	MS General Surgery	12
20	MS Obstetrics and Gynecology	11
21	MS Ophthalmology	6
22	MS Orthopedics	9

Admission to P G Courses is from NEET Rank list and 50% of the total seats are admitted through Medical Counselling Committee (MCC) under the Director General of Health Services, Government of India New Delhi and 50% is done by the Commissioner for Entrance Examinations,(CEE) Kerala. Postgraduate students actively participate in patient care, specialty clinics, academic discussions, journal clubs, audits, and departmental research activities, contributing significantly to service delivery and academic output.

2.3 Super-Specialty Courses

The institution has progressively strengthened its academic profile through the introduction of **super-specialty programmes (DM/MCh)** in selected disciplines. These programmes are designed to provide advanced training in highly specialized areas of medicine and surgery. **(Table:5)**

Super-specialty departments are supported by Dedicated wards and ICUs, Advanced diagnostic and therapeutic equipment, High-volume referral cases, and Multidisciplinary clinical support.

PG Super Speciality Courses

Table:5 PG Super Speciality Courses

Sl.No.	Speciality	Total No. of seats
1	D M cardiology	4
2	DM Medical Gastroenterology	3
3	DM Nephrology	3
4	DM Neurology	1
5	DM Infectious Disease	2
6	M Ch Cardiovascular and Thoracic surgery	4
7	M Ch Genito Urinary Surgery	3
8	M Ch Neurosurgery	4
8	M Ch Plastic and Reconstructive Surgery	2
9	M Ch Paediatric Surgery	1

Admission to P. G. Super Speciality Courses is from NEET Rank list and allotment to all the seats are made by Medical Counselling Committee (MCC) under the Director General of Health Services, Government of India, New Delhi. These programmes enhance the institution's role as a tertiary referral centre while contributing to the development of highly skilled specialists within the public health system.

2.4 Allied Health Science UG/DIPLOMA Courses

Admission to the **B.Pharm** course is from the Kerala Engineering Entrance Examination conducted by the Commissioner for Entrance Examinations, Kerala. The course is under the Kerala University of Health Sciences.

Admission to all other Paramedical U.G. and Diploma courses is based on the rank list prepared by the L.B.S centre, Kerala, on the basis of marks obtained in the final year of the qualifying examination. (Table:6)

Table:6 Allied Health Science UG/DIPLOMA Courses

Sl.No	Speciality	Total No. Of seats
1	B. Pharm	60+6 (Lateral Entry)
2	Bachelor of Cardiovascular Technology	8
3	B.Sc. Perfusion Technology	4
4	B.Sc. Dialysis Technology	11
5	D. Pharm	33
6	DMLT	17
7	DOTAT	11
8	DNT	2
9	DDT	11
10	DOA	17
11	CSSD	4
12	DRRT	12
13	DET	4
14	BPT	30

2.5 Proposals for Academic Development

In alignment with emerging healthcare needs and national priorities, Medical College Hospital, Kottayam, has identified several focus areas for future academic development.

Key proposals include:

- Increase in undergraduate and postgraduate seats, subject to regulatory approval
- Introduction of new postgraduate and super-specialty programmes in emerging disciplines
- Strengthening of interdisciplinary and subspecialty training
- Expansion of skill-based and simulation-based education
- International and inter-institutional academic collaborations
- Introduction of certificate courses and fellowship programmes aligned with public health priorities

These initiatives aim to enhance academic capacity, address workforce shortages, and improve the overall quality of medical education.

2.6 Conclusion

Medical College Hospital, Kottayam, maintains a robust academic framework that integrates undergraduate, postgraduate, and super-specialty education with comprehensive clinical exposure. The institution's commitment to competency-based education, research, and continuous academic development positions it as a leading government medical college in the state. Planned academic expansions and curricular innovations are expected to further strengthen its contribution to medical education and healthcare delivery.

Chapter 3

HEALTH FACILITIES

3.1 Overview of Facilities

Government Medical College Hospital, Kottayam, functions as a major tertiary care referral institution catering to the healthcare needs of Central Kerala and neighbouring regions. The hospital infrastructure supports comprehensive preventive, promotive, curative, and rehabilitative services across multiple medical and surgical specialties. The institution has substantial bed strength distributed across clinical departments, specialty wards, intensive care units, emergency services, and super-specialty blocks. A wide range of outpatient, inpatient, diagnostic, and interventional services are delivered through coordinated departmental functioning.

The hospital plays a critical role in:

- Tertiary referral care under the public health system
- Clinical training for undergraduate, postgraduate, and super-specialty students
- Emergency and trauma care
- Maternal, child, and geriatric healthcare
- Public health surveillance and outreach activities

3.2 OP Services conducted by various department

Table:7 OP Services conducted by various department

DEPARTMENT	OP DAYS
Art Clinic	All Days
Oncology	All Days
Cardiology	All Days

Chest(Pulmonary)	Tuesday, Thursday, Saturday
CTVS	Monday To Friday
Dental (OMFS)	Monday, Tuesday, Thursday, Saturday
Diabetic	Friday
Endocrinology	Saturday
Gastroentrology	Monday, Wednesday
Gastro Surgery	Wednesday
Gynecology	All Days
Head Neck and Thyroid Surgery	Surgery All Days
Hematology	Friday
Haemophilia	Second And Fourth Saturday
Hepatobiliary Surgery	Monday
Hypertension Clinic	Monday
IDU	All Days
Interventional Radiology	All Days
Medicine	All Days
Nephrology	Wednesday, Thursday
Neuro Medicine	Tuesday, Friday

Neuro Surgery	Tuesday, Friday
Ophthalmology	All Days
Orthopaedics	All Days
Ongosurgery	Tuesday
Plastic Surgery	Wednesday, Saturday
Psychiatry	All Days
Physical Medicine & Rehabilitation	All Days
Rheumatology	Thursday
Dermatology	All Days
Surgery	All Days
Transgender Clinic	Third Saturday
Urology	Monday, Thursday
Ent	All Days
Preventive Clinic	ALL DAYS (OP-9 AM-4 PM, Casualty-4.30 Pm To 8.30 Pm)
Medical Oncology	Monday, Tuesday, Thursday, Friday

Lab Services

1) Biochemistry

- Routine- Blood Glucose, Blood Urea, Serum Creatinine, Serum Uric acid, Electrolytes (Sodium, Potassium, Lithium, Chloride), Serum Bilirubin (Total/ Direct), Total

Protein, Serum Albumin, Lipid Profile (Serum cholesterol (Total, Triglycerides, HDL, LDL), Serum Calcium, Serum Phosphorus, Serum Magnesium, CRP, Enzymes (SGOT (AST), SGPT (ALT), Alkaline phosphatase, Amylase, Lipase, LDH)

- Immunoassay- Total T3, Total T4, Free T3, Free T4, TSH, TPO Antibody, Thyroglobulin Antibody, Thyroglobulin assay, Serum Ferritin, D-dimer, Procalcitonin, Parathormone
- Tumor markers- AFP, CEA, PSA, CA 125, CA 19-9
- Urine- Protein, Sugar, Protein-Creatinine Ratio
- CSF- Protein, Sugar
- Other Body Fluids- Protein, Sugar
- Special Tests- Glycated Hemoglobin (HbA1c), HPLC for Hemoglobin Variants

List of tests done in the Biochemistry Research Laboratory:

- Blood-Serum Protein Electrophoresis
- Urine- Metabolic Screening, V.M.A (Screening), 5-HIAA

2) Pathology

- Histopathology- Biopsy, IHC, Second Opinion, Autopsy, Histochemical staining, Imprint study
- Cytology- FNAC, Fluid cytology, Pap Smear (FNAC is carried out from 11 AM to 1 PM on all working days. Fluid Cytology, Sputum Cytology, Pap smear & Barr body Examination are also done)
- Hematology – CBC, ESR, Reticulocyte Count, Absolute Eosinophil Count, Osmotic Fragility Test, Peripheral smear, Bone marrow, Coagulation study (PT/APTT, INR Factor IX, Factor VIII, Platelet aggregometry, Factor assay, mixing study, Inhibitor assay), Platelet aggregometry, Sickling test, BT, CT, Urine (RUE, Acetone, Bile salt, Urobilinogen, Bence Jones Protein), Motion (Routine examination including Ova & Parasites), Body Fluid and CSF (Total TC &DC). The Clinical Pathology Lab is working for 24 hours.

3) Microbiology

- BACTERIOLOGY: Direct microscopy Gram staining, culture & sensitivity testing
- MYCOLOGY: Direct microscopy, India ink preparation, Latex agglutination –for cryptococcal culture
- MYCOBACTERIOLOGY: AFB staining & Culture
- TRUE NAT
- PARASITOLOGY: Stool microscopy for identification of ova & cyst, Modified AFB staining, Identification of worms, Wet film identification & culture of free-living amoeba
- SEROLOGY IgM ELISA, IgG ELISA, NS1 Ag Dengue, Widal, TPHA, Rapid test (ASC, RA, IMN, CRP, HIV Rapid screening test-ICTC)

Radiology services

- 24 hours Casualty Digital Radiography
- 24 hours Casualty 128 slice CT
- 24 hours Casualty 1.5 Tesla MRI
- Casualty USS
- Special procedures using X-rays, Barium studies, IVP, MCU, RGU etc.
- Routine Abdominal systemic USS, Antenatal USS, Doppler-peripheral, carotid, Renal, liver
- Guided procedures – Biopsy, drainage etc.
- Mammogram
- Interventional Radiology- Aneurysm coiling, PTBD, Stenting embolisation, Tumor Ablation etc...
- IP – Digital Radiography – OP – Computerized Radiography
- X-ray in ICH

- Portable X-rays (24 hours)

Emergency Services

Facilities available - General Medicine, Surgery, Orthopaedics, OMFS, ENT, Preventive medicine, Ophthalmology, Cardiology, Gynaecology, Cardiology and Oncology run separate casualty in their building in coordination with main emergency dept. because of their unique needs.

The following departments are available 24x7 on call to attend casualty patients and their M.O.s staying in respective dept./wards - Neurosurgery, Nephrology, Medical Gastroenterology, Surgical Gastroenterology, Neurology, Urology, Psychiatry, Dermatology, Pulmonology, Paediatric Surgery, and Interventional Radiology.

3.3 Patient Statistics

Table:8 Patient Statistics

HOSPITAL STATISTICS

YEAR	IP	OP	BIRTH	DELIVERY		DEATH	SURGERY	
				NORMAL	LSCS		MAJOR	MINOR
2016	77157	600792	5074			4204		
2017	81978	661007	5374			6892		
2018	83033	666797	5646			4371		
2019	86274	672801	5716			4470		
2020	61633	362603	4603			3883		
2021	71531	649239	4533	3078	1455	6133	17357	5105
2022	88523	882669	4751	2962	1789	5935	22594	8514
2023	95312	937977	4777	3039	1738	6480	23494	9108
2024	94254	1085834	4223	2706	1517	6434	24544	10716
2025 (up to Nov-22)	84236	851911	3354	2046	1308	5754		

Chapter 4

HUMAN RESOURCE PROFILE

4.1 Overview

Human resources constitute the backbone of Medical College Hospital, Kottayam, supporting its academic, clinical, administrative, and service delivery functions. The institution is staffed with qualified faculty members, skilled nursing personnel, technical staff, and administrative and support personnel, functioning within a structured governance framework and in accordance with government norms.

The staffing pattern is designed to ensure compliance with regulatory requirements while enabling high-quality patient care, medical education, and research activities. Periodic recruitment, promotions, and capacity-building initiatives contribute to workforce sustainability and service efficiency.

4.2 Faculty Strength

Medical College Hospital, Kottayam, has a well-established faculty base across pre-clinical, para-clinical, and clinical departments. Faculty members are responsible for teaching, patient care, research, academic administration, and mentoring of students and residents.

4.2.1 Category-wise Faculty Distribution

Table:9 Category-wise Faculty Distribution

Department	Designation	Sanctioned Strength	In Position
	Principal	1	1
Anatomy	Professor	1	1
	Asso. Professor	3	3

	Asst. professor	9	8
	Lecturer	1	1
Physiology	Professor	1	1
	Asso. Professor	3	3
	Asst. Professor	7	5
	Lecturer	2	2
	Asst. Professor (Biophysics)	1	0
Biochemistry	Professor	1	1
	Asso. Professor	1	1
	Asst. Professor	5	4
Microbiology	Professor	1	1
	Asso. Professor	2	2
	Asst. Professor	8	8
Pathology	Professor	2	1
	Asso. Professor	3	3
	Asst. Professor	12	12
	Lecturer	1	1
Pharmacology	Professor	1	1

	Asso. Professor	2	2
	Asst. Professor	4	4
	Lecturer	2	2
Community Medicine	Professor	1	1
	Asso. Professor	2	2
	Asst. Professor	6	5
	Lecturer	1	0
	Asst. Professor (Health Education)	1	0
	Asst. Professor (Medico Sociology)	1	0
	Lecturer (Statistics)	1	0
	Lecturer (Epidomology)	1	0
	Lecturer (Entomology)	1	0
	Lecturer (Medico Sociology)	1	1
Forensic Medicine	Professor	1	1
	Asso. Professor	1	1
	Asst. Professor	5	4

Radiotherapy/ Radiation Oncology	Professor	1	1
	Asso. Professor	1	1
	Asst. Professor	7	3
	Lecturer	1	1
Radiodiagnosis	Professor	1	1
	Asso. Professor	1	1
	Asst. Professor	6	3
Interventional Radiology	Assistant Professor	1	0
Anaesthesiology	Professor	1	1
	Asso. Professor	4	3
	Assistant Professor	21	20
Psychiatry	Professor	1	0
	Asso. Professor	1	0
	Asst. Professor	5	5
PM & R	Professor	1	1
	Associate Professor	1	1
	Asst. Professor	2	2
Paediatrics	Professor	2	1

	Asso. Professor	2	2
	Asst. Professor	12	11
Pediatrics Surgery	Professor	1	1
	Asso. Professor	1	1
	Asst. Professor	3	2
Transfusion Medicine (Blood Bank)	Asso. Professor	1	1
	Asst. Professor	3	3
Neonatology	Asso. Professor	1	0
	Asst. Professor	1	1
Medical Oncology	Asso. Professor	1	1
	Asst. Professor	2	0
Onco Pathology	Asso. Professor	1	0
	Asst. Professor	1	0
Cytopathology	Asst. Professor	2	0
Pharmaceutical Sciences	Professor	4	4
	Asso. Professor (pharmaceutical	2	2

	chemistry & pharmacognosy		
	Asst. Professor	16	16
Radiation Physics	Asso. Professor	1	1
	Lecturer	1	0
	Asst. Professor	1	1
Physical Education	Assistant Professor	2	2
	Tutor technician	2	1
	Senior Scientific Officer (Biochemistry)	1	1
	Bio Chemist	1	1
	Senior Superintendent (MCK)	1	1
	Senior Superintendent (LS & T)-MCH	1	1
	Senior Superintendent (LS & T) - ICH	1	1
	Senior Superintendent (ACPO)-ZLFC	1	1
	Senior Grade Librarian	1	1
	Audiologist cum Speech Pathologist (PMR)	1	1

	Scientific Assistant (Occupational Therapy) (PMR)	1	1
	Scientific Assistant (Blood Bank)	1	1
	Scientific Assistant (Physiotherapy) (PMR)	4	4
	Medical Record Superintendent	1	1
	Technical Assistant (R&S)	1	1
Cardiology	Professor	2	2
	Asst. Professor	5	3
CVTS	Professor	1	1
	Asso. Professor	2	1
	Asst. Professor	3	1
D&V	Professor	2	2
	Asst. Professor	7	4
ENT	Professor	2	2
	Asst. Professor	6	6
	Audiologist	1	1

General Medicine	Professor	3	2
	Asso. Professor	4	4
	Asst. Professor	14	10
General Surgery	Professor	2	2
	Asso. Professor	4	4
	Asst. Professor	18	13
Gastroenterology	Professor	1	1
	Asso. Professor	1	1
	Asst. Professor	3	2
IDU	Associate Professor	2	2
	Asst. Professor	2	2
Neuro medicine	Professor	1	1
	Asso. Professor	1	1
	Asst. Professor	3	2
Neuro Surgery	Professor	1	1
	Asso. Professor	1	1
	Asst. Professor	4	1
Orthopaedics	Professor	1	1
	Asso. Professor	2	2

	Asst. Professor	9	3
O&G	Professor	2	2
	Asso. Professor	3	3
	Asst. Professor	15	8
	Lecturer (Post Shifted from Biochemistry)	1	0
Ophthalmology	professor	1	1
	Asso. Professor	1	1
	Asst. Professor	13	11
Plastic Surgery	Professor	1	1
	Asso. Professor	1	1
	Asst. Professor	3	1
Urology	professor	1	1
	Asso. Professor	1	1
	Asst. Professor	3	1
Pulmonary Medicine	Professor	1	1
	Asso. Professor	1	1
	Asst. Professor	2	2

Nephrology	Professor	1	1
	Associate Professor	1	1
	Asst. Professor	5	4
Traumatic surgery (Now Emergency Medicine)	Asst. Professor	1	0
	Lecturer	1	0
Surgical Gastroenterology	Professor	1	1
	Associate Professor	1	0
	Assistant Professor	2	1
Lecturer in Statistics(O&G)	Assistant Professor	1	1
Lecturer in Health Education	Assistant Professor	1	1
Emergency Medicine (Newly created)	Professor	1	1
	Asso. Professor	2	0
	Asst. Professor	4	3
Cardiac Anaesthesia	Asst. Professor	1	1

Rheumatology	Asst. Professor	1	1
Paediatric Cardiology	Asst. Professor	1	1
	Asst. Professor	2	1
Surgical Oncology	Associate Professor	1	0
Paediatric Cardiac Surgery	Asst. Professor	1	0

4.2.2 Category-wise other staff Distribution

Table:10 Category-wise other staff Distribution

	Accounts Officer	2	2
	Senior Administrative officer	1	1
	Junior Superintendent	6	6
	Clerk/Senior Clerk	50	50
	Office Attendant	16	16
	Watchman	5	2
	Clerk-Typist	9	9
	LD/UD Typist	10	10
	Confidential Asst.	9	9
	Fair copy superintendent	1	1
	Clerical Attender	14	14

	Medical Record Librarian	7	7
	Sergeant	3	1
	Librarian	4	4
	Statistical Assistant	1	0
	Prosthetic and Orthotic Engineer	1	1
	Foreman (Limb)	1	1
	Rehabilitation Technician	9	9
	Cobbler	3	3
	Junior lab Assistant	26	26
	Junior Research Assistant	6	2
	Theatre Assistant	2	0
	House Keeper	2	0
	Lineman (PWD)	4	4
	Junior Public Health Nurse (DHS)	1	0
	Junior Public Health Nurse	2	1
	Lift Operator	27	25
	Lab Assistant (DIALYSIS)	4	4
	Cath Lab Technician	4	4

	Gardener	2	2
	Full Time Sweeper	29	28
	Helper	1	1
	Artist	2	2
	Blood Bank Technician	11	11
	Carpenter	1	0
	Curator	2	1
	Clinical Psychologist	1	1
	Cytotechnician	2	2
	Driver	16	15
	ECG Technician	7	7
	EEG Technician	2	0
	Electrician	2	2
	Health Inspector	3	3
	Health Supervisor	1	1
	Junior Health Inspector	3	3
	Lab Technician	57	38
	Lab Technician (Pharmacy)	4	3
	Lift Mechanic	1	1
	Mechanic	5	3
	Medical Photographer	1	1
	Modeller	2	2

	Optometrist	4	4
	Pharmaceutical Chemist	1	1
	Plumber	2	2
	Chief Nursing Officer	1	1
	Psychiatric Social Worker	1	0
	Radiographer	29	29
	Refrigeration Mechanic	1	1
	Store Keeper Pharmacist	1	0
	Social Worker (MSW)	1	1
	Senior Nursing Officer	90	90
	Tailor	1	0
	Store Superintendent	1	1
	Theatre Mechanic	3	3
	Technical Assistant (R&AC)	1	1
	Anaesthesia Technician	8	8
	Power Laundry Attender	7	1
	Pharmacist Store Keeper	3	3
	Pharmacist	18	17
	Part Time Sweeper	56	48

	Deputy Nursing Superintendent	8	7
	Electrical overseer 2nd Grade	4	4
	Head cook	1	0
	Cook grade ii	2	0
	Dhoby	5	4
	Electrical Lascar	1	0
	Dietician	1	0
	Lady Health Inspector	4	4
	CSR Technician	3	3
	Ophthalmic Assistant	1	1
	V D Social Worker	1	1
	Hospital Attender	37	33
	Hospital Attendant Grade II	159	139
	Painter	1	0
	Nursing Superintendent	4	4
	Nursing officer Grade I&II	517	512
	Nursing Assistant	191	171
	Chemist	1	0
	Hospital Attendant Grade I	93	89

	Assistant foreman power laundry	2	2
	Assistant Leprosy Officer (DHS)	1	0

4.2.3 Hospital Development Society Staff

Table:11 Hospital Development Society Staff

SL NO	Name Of Post	Total
1	Doctors	46
2	Staff Nurse	431
3	Cath lab Technician	3
4	Lab Technician	52
5	ECG Technician	17
6	Radiographer	56
7	Dialysis Technician	21
8	Blood Bank Technician	10
9	Neuro Technician	1
10	Pharmacist	70
11	Security Staff	105
12	Office Assistant	1

13	Data Entry Operator	16
14	Accountant	6
15	Cash Counter Staff	6
16	CSR Technician	17
17	Steno Typist	5
18	Drivers	2
19	Junior Lab Technician	17
20	Lift Operator	4
21	Telephone Operator	2
22	Clerk Typist	1
23	Paying Counter Assistant	3
24	Dialysis Assistant	2
25	Valve Operator	2
26	Casual Laborers	10
27	Cleaning Staff	27
28	Attender	12
29	Statistical Assistant (Cancer)	1
30	Pft Assistant (Cancer)	1

31	Scavenger	1
32	Plumber	1
33	Barber	4
34	Tailor	1
35	Theatre/Ward Helper	25
36	Site Administrator	1
37	Paying Counter Administrator	1
38	Perfusionist	3
39	Thoracic Assistant	1
40	Office Secretary	1
41	Physiotherapist	15
42	Anaesthesia Technician	26
43	Pro	6
44	Attenders(No Bystander)	7
45	Welder	1
46	Molecular Biologist	1
47	Computer Technician	1
48	Biomedical Technician	4

49	Oxygen Plant Operator	4
50	Ac Technician	3
51	Ac Mechanic/Operator	2
52	Social Worker	4
53	Fire & Safety Officer	1
54	Dental Operating Room Assistant	1
55	Data Entry-District Mission	69
56	CSR Helpers	15
57	Multipurpose/Kudumbar ee Cleaning Staff	492

4.3.4 KASP Staff

Table:12 KASP Staff

Sl. No	Name Of Post	Total No
1	Medical Officer	1
2	MIS Officer	1
3	Data Entry Operators	29

4	Staff Nurse	1
5	Pharmacist	7

4.4 Nodal Officers and Institutional Responsibilities

The institution designates nodal officers for various statutory, regulatory, and programmatic responsibilities, including biomedical waste management, infection control, quality assurance, ethics, and public health programmes.

4.5 Conclusion

Medical College Hospital, Kottayam, maintains a balanced and competent human resource profile aligned with its academic and clinical objectives. Continuous efforts toward recruitment, training, and workforce development ensure the institution's capacity to deliver high-quality healthcare services and medical education in accordance with government and regulatory standards.

Chapter 5

HEALTH INFRASTRUCTURE DEVELOPMENTS

5.1 Overview

Medical College Hospital, Kottayam, has undergone sustained infrastructure development to support its expanding academic, clinical, and research activities. The institutional infrastructure has been planned to accommodate tertiary and super-specialty healthcare services while ensuring a conducive environment for medical education and training.

The campus layout reflects functional integration between hospital blocks, academic buildings, hostels, and service facilities. Infrastructure development has been guided by national health priorities, regulatory requirements, and evolving patient care demands.

5.2 Existing Infrastructure

5.2.1 Hospital Blocks

The hospital infrastructure comprises multiple clinical blocks housing outpatient departments, inpatient wards, operation theatres, intensive care units, diagnostic services, and emergency facilities. These blocks are designed to support high patient volumes while ensuring safety, accessibility, and service efficiency.

5.2.2 Academic Blocks

Academic blocks house lecture halls, seminar rooms, departmental offices, museums, laboratories, and faculty workspaces. These facilities support undergraduate, postgraduate, and super-specialty teaching activities.

5.2.3 Hostels and Residential Facilities

The institution provides hostel accommodation for undergraduate and postgraduate students, interns, and nursing trainees. Residential quarters are also available for faculty and essential staff.

5.2.4 Libraries and Learning Resources

The central library and departmental libraries support academic learning and research through access to textbooks, journals, digital resources, and online databases.

5.2.5 Skill Laboratories

Skill laboratories provide structured training in clinical skills, procedural competencies, and simulation-based learning, aligned with competency-based education.

Infrastructure Key Components



Fig:8 Administrative Block

C1& C2 Block



Fig:9 C1& C2 Block



Fig:10 Casualty Block



Fig: 11 O P Block



Fig: 12 Gynaecology Block



Fig: 13 Institute of Child Health



Fig: 14 Surgical Block



Fig: 15 Resident Quarters



Fig: 16 New Ladies Hostel



Fig: 17 KMCHC Ettumanoor



**Fig: 18 CHC Koodalloor
Support Facilities**



Fig: 19 Biomedical Waste Management



Fig: 20 Power Laundry



Fig: 21 Mortuary



Fig: 22 Transport Services



Fig: 23 Toilet Complexes



Fig: 24 Patient Education



Fig: 25 Cafeterias

5.3 Ongoing Infrastructure Projects

Infrastructure development at Medical College Hospital, Kottayam, has been supported through multiple funding streams, including centrally sponsored schemes and state initiatives.

Government Developmental Projects

Government Medical College, Kottayam Expansion projects during the first LDF government tenure Completed, inaugurated, and operational projects:

1. New Accident and Emergency Department - Phase 1 - Allocated amount: ₹36 crore.
2. OP Renovation (Ardram) in the Gynecology Department - Allocated amount: ₹1.5 crore.
3. State-of-the-art Dual Modulator Transplant Operation Theater - Allocated amount: ₹89 lakh.
4. Hemophilia Ward - Allocated amount: ₹20 lakh.
5. Gynecology Department: 24-hour Lab, Health Education Center - Allocated amount: ₹1.5 crore.
6. Waiting area for bystanders - Gynecology.
7. New Mortuary Block - Allocated amount: ₹2 crore.
8. Second Cath Lab in the Cardiology Department - Allocated amount: ₹5.5 crore.
9. 128 Slice CT Scan - Allocated amount: ₹5.3 crore.
10. Renovated Internal Roads - Allocated amount: ₹5.9 crore.
11. Autism Center- Kerala Social Security Mission project
12. Retina Unit - Allocated amount: ₹1 crore.
13. Pediatric Cardiac Surgery Department - Renovated ICU and state-of-the-art ECHO Machine - Allocated amount: ₹1 crore.
14. Renovated Wards including Cancer and Neuro Surgery - Allocated amount: ₹130.88 lakh.

15. Modern Laparoscopic Machine for Keyhole Surgery in the Accident and Emergency Department - Allocated amount: ₹40 lakh.
16. Single Balloon Enteroscope in the Gastro Enterology Department - Allocated amount: ₹75 lakh.
17. CAPD ICU in the Nephrology Department - Allocated amount: ₹10 lakh.
18. In-Service Nursing Education Unit.
19. Green Protocol Project Implementation.
20. Cancer Surgery Department.
21. Ardrum Project - in two phases (including Gynecology OP) - Allocated amount: ₹8.39 crore.
22. Modular Operation Theaters - Gynecology & ICH - Allocated amount: ₹1.60 crore.
23. CT Simulator - Allocated amount: ₹4 crore.
24. Resting center for bystanders - Cardiology and Cardio Thoracic - Allocated amount: ₹1.5 crore.
25. Toilet Complex I - Allocated amount: ₹1 crore.
26. Toilet Complex II - Allocated amount: ₹75 lakh.
27. MCF: Solid Waste Treatment Plant - Allocated amount: ₹65 lakh.
28. Modernized Power Laundry - Allocated amount: ₹98 lakh.
29. Renovated Biomedical Department, Calibration Lab - Allocated amount: ₹60 lakh.
30. Renovated Superintendent Office, 24th Ward, 23rd Ward (Cancer Day Care Center) - Allocated amount: ₹40 lakh.
31. PG Resident Doctors' Quarters - Allocated amount: ₹12.10 crore.
32. 450 Bed Ladies Hostel - Allocated amount: ₹12.24 crore.
33. Six wards with 100 beds, 13 Isolation ICU beds on the top floor of the new Accident and Emergency Department Block - Allocated amount: ₹16.6 crore.

34. Negative Pressure ICU - Allocated amount: ₹1 crore.
35. Modern Mechanized Cleaning Works - Allocated amount: ₹1 crore.
36. MRI - Allocated amount: ₹7 crore.
37. DSA - Allocated amount: ₹4.5 crore.
38. Linear Accelerator - Allocated amount: ₹11.5 crore.
39. Local OPD & Waiting area near Post Office - Allocated amount: ₹1 crore.
40. House Surgeons' Quarters - Allocated amount: ₹6 crore.
41. Burns ICU - Allocated amount: ₹16.09 crore.
42. MDRU - Allocated amount: ₹5 crore.
43. Skill Lab - Allocated amount: ₹4.8 crore.
44. Lakshya Project - Allocated amount: ₹3.75 crore.
45. Pediatric Cardio Thoracic Surgery Operation Theater - Allocated amount: ₹98 lakh.
46. Nursing College Auditorium - Allocated amount: ₹5 crore.
47. Washing & Drying Area - Allocated amount: ₹40 lakh.
48. Elderly Friendly Lift/Passage - Allocated amount: ₹80 lakh.
49. ICH Canteen - Allocated amount: ₹10 lakh.
50. New Medical Ward - Allocated amount: ₹65 lakh.

Total amount allocated: ₹194.02 crore.

Procurement of major equipment (allocated amount):

1. 128 Slice CT Scan.
2. CT Simulator.
3. Heart Lung Machine - Allocated amount: ₹1.68 crore.
4. IABP Machine - Allocated amount: ₹53.12 lakh.

5. 4D Echo Machine - Cardiology - Allocated amount: ₹85 lakh.
6. Ophthalmic Microscope - Allocated amount: ₹65 lakh.
7. VATS System - Allocated amount: ₹29.75 lakh.
8. Ventilators - Allocated amount: ₹1.75 crore.
9. Digital Radiography - Casualty - Allocated amount: ₹1.58 crore.
10. Single Balloon Unit – Gastro enterology - Allocated amount: ₹31 lakh.
11. Ultrasound Machine - Urology, Nephrology, CCU, Gynecology - Allocated amount: ₹79.54 lakh.
12. Buggy Car - MP Fund - Allocated amount: ₹10 lakh.
13. Mini Host Pilot - MP Fund - Allocated amount: ₹18 lakh.
14. Gait analysis System - Physical Medicine - Allocated amount: ₹36.67 lakh.
15. Sleep Lab - Neuro Medicine - Allocated amount: ₹15 lakh.
16. Laparoscopic Machine - Allocated amount: ₹40 lakh.
17. Optical Coherence Tomography Machine - Beverages Corporation - CSR Fund - Allocated amount: ₹1.12 crore.
18. Ventilators - Allocated amount: ₹52 lakh.
19. Endoscopic Ultrasound System - Gastro enterology - Allocated amount: ₹1 crore.
20. MRI Scanner - Allocated amount: ₹3.04 crore.
21. Advanced Phaco Emulsification Unit - Allocated amount: ₹45 lakh.

Total amount allocated: ₹16.13 crore.

Ongoing Projects

Projects for which foundation stone laying was done and construction work started (allocated amount):

1. Master Plan - Surgical Block - Allocated amount: ₹151 crore.
2. Cardiology Block Second Phase - Allocated amount: ₹36.41 crore.

3. Pharmacy College Second Phase - Allocated amount: ₹16 crore.

Total allocated amount: ₹206.41 crore.

Expansion projects during the second LDF government tenure Various projects allocated:

Ongoing construction projects:

1. Fluoroscopy (₹2.50 crore), PACS (₹10 crore): Allocated amount: ₹115 crore.
2. Super Speciality Block: Financial approval of ₹268.60 crore received from KIIFB. M/s HITES appointed as SPV. The construction of this 9-storey building complex with an area of Surgical Block. Financial approval of ₹204.98 crore received from KIIFB. M/s HITES appointed as SPV. Construction of an 8-storey Surgical Block with 336420 sq.ft area, 526 beds, 18 operation theaters, 44 ICU beds, and 12 isolation beds is nearing completion and is being prepared for inauguration. Allocated amount: ₹204.98 crore.
3. Equipment for Surgical Block: Including modern facilities like CT Scanner - 256 Slice (₹20 crore), MRI - 3 Tesla (₹21 crore), X-ray Unit (₹1.75 crore), Surgical block of 3,00,000 sq.ft, equipped with state-of-the-art facilities, including 11 major and 1 minor operation theaters, 2 pre-operative wards with 13 beds, 1 post-operative multi-dependency ward with 14 beds, 60 ICU beds, and 300 ward beds, has been entrusted to M/s Marymatha Constructions (P) Ltd. Allocated amount: ₹268.60 crore.
4. Cardiology Block: Financial approval of ₹36.41 crore received from NABARD. Construction of the second phase of the Cardiology Block with operation theater, focal block construction, tea rooms, toilet facilities is nearing completion and is being prepared for inauguration. Allocated amount: ₹36.41 crore.
5. Infectious Diseases Block: Fund allocated from NABARD. Construction started by PWD. Allocated amount: ₹10.71 crore.
6. Paramedical Hostel: Construction of this 5-block, 4-storey building with an area of 1646 sq.m. by PWD using Plan Funds. The first two floors of Block 1 and Block 2 are included in Phase 1. Allocated amount: ₹6 crore.

7. Epidemic Ward - ICH: Allocated amount: ₹6 crore.
8. Examination Hall, Lecture Hall & Auditorium: Allocated in the 2021-22 budget. Further actions are being taken. Allocated amount: ₹5 crore.
9. 32 Slice CT Scan: ₹4.28 crore was spent and a 32-slice CT scan is being installed at the Cancer Block. Installation started in the first week of November and will be operational soon. Allocated amount: ₹4.28 crore.
10. Cath Lab: Purchase order placed for the Cath Lab being installed in the Cardiology Department at a cost of ₹7 crore. It will be installed and operational by December-January. Allocated amount: ₹7 crore.

5.4 Completed and operational projects:

During this government's tenure, expansion works worth more than ₹750 crore are underway at Kottayam Medical College

1. Nursing College Auditorium, Examination Hall and Gallery Complex: The largest auditorium in the Medical College campus, with a seating capacity of 500 people, was constructed by PWD at a cost of ₹6.20 crore. Allocated amount: ₹6.20 crore.
2. Renovated 7th and 8th Wards: PWD renovated the Neuro Surgery and Spine Surgery wards (Ward 7 & 8). Allocated amount: ₹40 lakh.
3. 750 kVA Generator: A 750 kVA generator with a self-operating system, installed by PWD alongside the existing 1000 kVA generator, has started functioning. Allocated amount: ₹1.5 crore.
4. Oxygen Generator: An oxygen generator was installed at the Children's Hospital through ACT Grants National Health Mission with the cooperation of JCI at a cost of ₹4 crore to address the oxygen shortage. Allocated amount: ₹1 crore.
5. Nephrology Lab: Established a Nephrology Lab which is very essential and beneficial for the 24-hour functioning dialysis units, kidney transplantation surgeries, related tests, those seeking treatment in the Nephrology ward, and DM students in the Nephrology department. Allocated amount: ₹24.11 lakh.

6. Pharmacy College: The 7-storey Pharmacy College with an area of 6224 sq.ft was constructed by PWD and made operational with an investment of ₹16.66 crore. Allocated amount: ₹27.2 crore.
7. Children's Hospital ECRP Plan II: Under the Emergency COVID Response Plan - II, NHM constructed and operationalized 15 Oxygen Beds, 4 HDUs, and 2 ICUs at a cost of ₹68.28 lakh, and 5 ICU beds at a cost of ₹34.53 lakh. Allocated amount: ₹1.03 crore.
8. Cardiology Department: 4D Echo Machine, Portable Echo Machine. The 4D Echo Machine purchased at a cost of ₹63 lakh and the Portable Echo Machine purchased at a cost of ₹37 lakh, allocated under the 2021-22 State Plan Fund, have started functioning. Allocated amount: ₹1 crore.
9. Material Collection Facility (MCF), Aerobic Composting Unit & Biogas Plant: The Material Collection Facility (MCF), rebuilt by Nirmithi Kendra at a cost of ₹59.27 lakh after damage in a fire accident, the Aerobic Composting Unit newly constructed by Arpookara Panchayat with an investment of ₹10.15 lakh, and the renovated Biogas Plant with an investment of ₹2.82 lakh have started functioning. Allocated amount: ₹72.24 lakh.
10. New lifts: 3 nos. - Principal Office, Blood Bank, Nursing College. The new lifts constructed by PWD at the Principal Office (₹42 lakh), Blood Bank (₹77 lakh), and Nursing College (₹52.38 lakh) have started functioning. Allocated amount: ₹1.72 crore.
11. ICU, post-operative third floor under ECRP II: Under the Emergency Covid Response Plan - II, 25 ICU beds constructed by NHM at a cost of ₹1.62 crore have started functioning. Allocated amount: ₹1.62 crore.
12. Renovation of Nursing Office: The Nursing Office was renovated by PWD at a cost of ₹60 lakh as per G.O (Rt) No.1621/2021/H&FWD dtd. 30-07-2021 and has started functioning. Allocated amount: ₹60 lakh.
13. Renovated OP Pharmacy: PWD renovated the OP Pharmacy at a cost of ₹16.27 lakh. Allocated amount: ₹16.27 lakh.

14. Renovated KASP Counter (near MCF, Aerobic Composting Unit): The renovated KASP Counter was made operational by Jilla Nirmithi Kendra at a cost of ₹20.55 lakh. Allocated amount: ₹20.55 lakh.
15. Laparoscopy Project HDS: The laparoscopy unit started as part of General Surgery at a cost of ₹20 lakh enables daily laparoscopy surgery. Allocated amount: ₹20 lakh.
16. Modular Operation Theatre - Post-Operative Block: As part of the second phase of the Post-Operative Block, PWD constructed and operationalized 5 modular operation theatres at a cost of ₹2.30 crore. Allocated amount: ₹2.30 crore.
17. ICU Ambulance: An ambulance equipped with ICU facilities, received by the hospital through KSFE's 2021-2022 CSR fund worth ₹28.56 lakh, is ready for flag off. Allocated amount: ₹28.56 lakh.
18. Sewage Treatment Plant Renovation: Allocated amount: ₹1.75 crore.
19. OP Renovation: The ground floor and second floor of the OP Block have been renovated and are operational at a cost of ₹2.25 crore. Allocated amount: ₹2.25 crore.
20. State of Art Scientific Warehouse (KMSCL): A state-of-the-art scientific warehouse for district drug storage and distribution using advanced technology. Allocated amount: ₹17 crore.
21. Medical and Surgical Store: As per G.O (Rt) No. 3319/2016/H&FWD Dt.14/12/16, the construction of the first floor of the Medical and Surgical Store being built by PWD under the Plan Fund of ₹3 crore has been completed and is operational. Allocated amount: ₹3 crore.
22. Ophthalmology Operation Theater: The Ophthalmology Operation Theater constructed by Jilla Nirmithi Kendra using RSBY funds of ₹1.79 crore is operational. Allocated amount: ₹1.79 crore.
23. Pandemic ICU – Gynecology: A 10-bed pandemic ICU constructed by WAPCOS with NHM funds of ₹58.47 lakh is operational. Allocated amount: ₹58.47 lakh.

24. Neuro Surgery - State-of-the-art Equipment- Neuro Navigation: ₹1.5 crore. This machine with the latest digital software and virtual reality accurately determines the location of tumors inside the head during surgery. Operating Microscope: ₹1.36 crore. Helps to make operations for stroke patients very safe. C-Arm: ₹15 lakh. Intraoperative Neuromonitoring System: ₹15 lakh. Helps to monitor the function of nerves in real-time during surgery and thereby reduce potential complications due to surgery. Allocated amount: ₹3.16 crore.
25. Stroke Unit: A state-of-the-art stroke unit has been started here as the institution is the last resort for patients from five districts. Allocated amount: ₹60 lakh.
26. Mental Health Review Board, Kottayam: The government has decided to establish the Mental Health Review Board for Kottayam, Pathanamthitta, and Idukki districts under the Kerala State Mental Health Authority at the Medical College compound in Kottayam district. ₹35 lakh has been allocated and NHM has been entrusted with the project implementation. The District Collector has given administrative sanction to implement the project in the district through the Kottayam District Nirmithi Kendra.
27. Palliative Care Unit, Rehabilitation Unit & Grief Care Services: The Palliative Care, Rehabilitation Unit, and Grief care services started for the first time at Kottayam Medical College in accordance with WHO guidelines, with all necessary facilities, will be very helpful in ensuring free treatment facilities for the poor patients dependent on the Medical College and improving their quality of life by providing mental and physical support.
28. During the financial year 2024-25, the government has allocated ₹11.51 crore for the purchase of necessary equipment for the Kottayam Medical College Cardiology Department.

Construction of a surgical block with 50 lakh worth of beds suitable for keyhole surgery. A 4K Laparoscopic System will be specially installed this year in the Surgery and Gastro Surgery departments. For this, the government has allocated funds as per G.O (Rt) No.1526/2024/H&FWD, Tvm, Dated:24-06-2024. A C-Arm machine worth 27 lakh for the

Gastro enterology department, a portable echo machine worth ₹37.68 lakh for the Pediatric department, and an Argon Plasma Coagulation System worth ₹15 lakh for the Urology department are being procured to facilitate better treatment. An Add-on High-Definition system worth ₹25 lakh is being procured for the Medical Gastro department.

5.5 Major development projects under HDS:

1. Cardiac Surgery Project:
 - a. Performing more than two thousand highly complex heart surgeries annually.
 - b. Performed the first heart transplant surgery at the government level. So far, 210 heart transplant surgeries have been completed successfully.
 - c. Started performing maximum heart valve replacement surgeries in the state.
 - d. Aortic surgery centre of Excellence for complex surgeries.
 - e. Only government institution in the state to perform Keyhole cardiac/thoracic surgeries.
2. Laparoscopic Project:
 - a. The laparoscopic project started under HDS has completed more than 1000 surgeries annually.
 - b. Complex surgeries for hernia, tumors in the chest and abdomen, deep-seated tumors, esophagus, stomach, and large intestine are performed.
 - c. Cancer removal surgeries and bariatric (for obesity) laparoscopic surgeries are completed at very low cost.
3. Trauma Project:
 - a. Approximately 2400 surgeries were completed.
 - b. By appointing anesthesia doctors/nurses etc. through HDS, two operation theatres are functioning daily from 12 to 16 hours, making operations easier for trauma patients.

4. Interventional Radiology:

- a. Approximately three thousand surgeries in the last two years.
- b. 24-hour ready advanced stroke treatment.
- c. Treatment for ruptured blood vessel lumps in the brain (intracranial aneurysm) is performed. This is one of the few hospitals in the state where this complex disease is treated.
- d. 24-hour ready modern treatment to eliminate bleeding caused by accidents and pregnancy complications, saving the patient's life.

5. Critical Care Department:

- a. Started functioning in 2016 under the Anesthesia Department by appointing two full-time intensivists.
- b. Approximately 8500 critically ill patients, including Covid patients, have been provided ICU treatment.
- c. Providing treatment to critically ill patients (including Obstetric patients) in all departments.
- d. Provided advanced ventilator support to around 4500 patients.
- e. Equipped with state-of-the-art treatment facilities like ultrasound machines, fiberoptic bronchoscopes, and ECMO treatment.
- f. The treatment facility for chronic patients is also available.

6. Surgical Gastro Department:

- a. The Surgical Gastro department started functioning again in 2021 at the government medical college.
- b. Equipment worth ₹1.8 crore was purchased.
- c. Received sanction from the government for liver transplant surgery within 5 months.
- d. 3 liver transplant surgeries have been completed successfully.

- e. Approximately 350 complex surgeries, including Laparoscopic cancer surgeries, have been completed successfully.
- f. Received approval to start the fellowship course in the Surgical Gastro department for the first time at the government level.

7. Stroke Unit:

- a. Started functioning in May 2022.
- b. Equipment including 6 ICU cots, 3 ventilators, and necessary neurosurgical instruments for emergency stroke surgery worth ₹2.1 crore were purchased.
- c. Providing advanced emergency stroke treatment with CT scan, CT angiography, and MRI scan facilities to critically ill patients arriving at the Accident and Emergency department.
- d. So far, advanced treatment has been provided to around 892 stroke patients.

8. Neuro Surgery Project:

- a. Providing free treatment facilities to patients from five nearby districts.
- b. Performing more than 1500 surgeries annually.
- c. Advanced treatment system equipped with Neuro Navigation - ₹1.5 crore, Operating microscope - ₹1.36 crore, C-Arm - ₹35 lakh, Intraoperative neuromonitoring system - ₹20 lakh is set up for patients.
- d. Providing advanced academic training with 4 PG seats.
- e. The service of expert doctors and state-of-the-art equipment helps in providing free treatment and reducing the waiting time for patients.

9. Emergency Medicine Department- The Emergency Medicine Department provides comprehensive services catering to all acute and critical conditions. The department operates 24×7 with specialized emergency physicians and nursing staff trained in advanced life support. Key services include:

- 24-hour emergency medical and surgical care

- Advanced trauma life support (ATLS) and cardiac life support (ACLS)
- Triage and stabilization of critically ill patients
- Dedicated resuscitation bays and minor procedure rooms
- Coordination with specialty departments for rapid referrals and definitive management
- Training and simulation-based learning in emergency response and disaster preparedness

5.6 Completed Projects by Alumni Association

In the year 2023-2024 Diamond jubilee celebrations were held and as part of various initiatives - Renovation of Lecture halls, Library, Sports Complex, Seminar rooms, Staff & Student's programmes, Medex etc. Around 5 crores of funding was raised from various batches.

Batch sponsoring details:

1. 1964 - Basketball court
2. 1965 - PGR Hall
3. 1966 - GK Warriar Hall
4. 1967 - Yajna Naraya Iyyer Hall
5. 1968 - Students world
6. 1969 - Anatomy Hall
7. 1970 - JS Satyadas Idam
8. 1971 - K Madhavan Nair Hall
9. 1973, 1976, 1977 - Gym
10. 1978 - Auditorium stage
11. 1979 - OBG Hall
12. 1980 - Santha Kurup Hall

13. 1981 – Diamond Jubilee Gate
14. 1982 – Central Library
15. 1983 – Biochemistry Hall
16. 1984 – Physiology Hall
17. 1985 – Cancer ward waiting area
18. 1986 – Open Auditorium
19. 1987 – Central Library
20. 1988 – Pathology Hall
21. 1990 – Community Medicine Hall
22. 1991 – OBG Library
23. 1992 – Exam Hall
24. 1993 – PTA Hall
25. 1998 – Pharmacology Hall



Fig:26 New O P Block



Fig:27 Cardiology Bystander Area & Palliative Unit



Fig:28 Pharmacy College & Ambulance Flag off



Fig:29 KMSCL Warehouse & Kaarunya Pharmacy

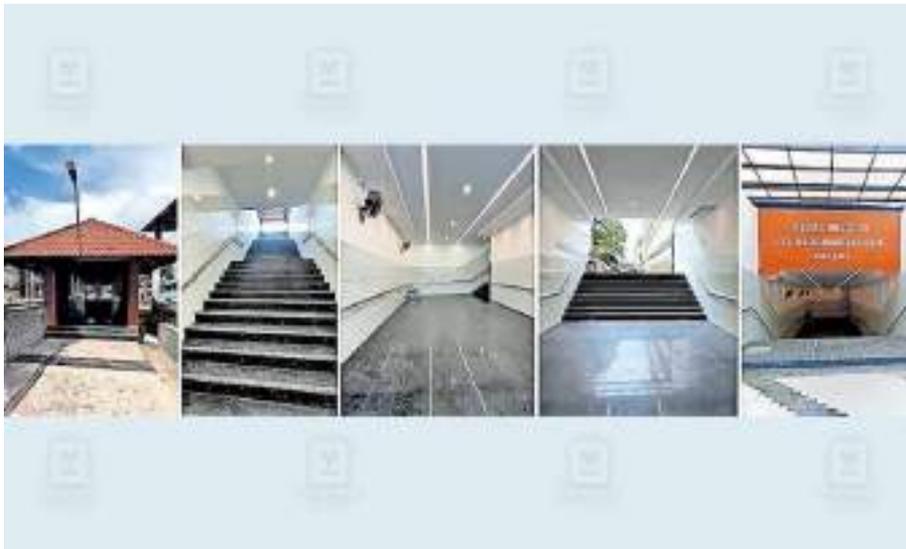


Fig:30 Underpass



Fig:31 New Gate

5.7 Future Projects / Proposals

Proposed infrastructure developments focus on:

- Expansion of critical care and emergency services
- Additional academic and skill development facilities
- Upgradation of diagnostic and imaging services
- Green and sustainable campus initiatives

These proposals aim to enhance service capacity, academic excellence, and patient safety.

5.8 Conclusion

Medical College Hospital, Kottayam, continues to strengthen its infrastructure in alignment with its academic and healthcare delivery goals. Strategic investments, multi-source funding, and phased development have enabled the institution to respond effectively to growing healthcare needs and future challenges.

CHAPTER 6

SPECIAL PROGRAMMES

6.1 Introduction

Medical College Hospital, Kottayam, implements a wide range of government-supported schemes, department-led public health initiatives, research-linked surveillance programs, and community outreach activities aimed at improving patient care, strengthening public health impact, and supporting academic training. These programs align with National and State health priorities and contribute to comprehensive service delivery across clinical and community settings.

6.2 Government Schemes Implemented

The institution actively implements several Central and State Government schemes that enhance access to healthcare, improve service quality, and support vulnerable populations. These schemes are integrated into routine clinical services and monitored through designated nodal mechanisms.

Government Schemes Implemented at MCH Kottayam

Table: 12 Government Schemes implemented at MCH Kottayam

Scheme	Objective	Services Provided
National Health Mission (NHM)	Strengthen public health services	MCH, emergency care, critical care
PMSSY	Super-specialty strengthening	Infrastructure & advanced equipment
Janani Suraksha Yojana (JSY)	Promote institutional deliveries	Maternal care incentives

Scheme	Objective	Services Provided
Janani Shishu Suraksha Karyakram (JSSK)	Free maternity & neonatal services	Diagnostics, drugs, transport
National Tuberculosis Elimination Programme (NTEP)	TB control	Diagnosis, treatment, follow-up
National Programme for Control of Blindness (NPCB)	Prevent avoidable blindness	Eye screening & surgeries
National Mental Health Programme (NMHP)	Mental health services	OPD, counselling, outreach
National Leprosy Eradication Programme (NLEP)	Leprosy control	Diagnosis, MDT, rehabilitation

This table summarises the major government schemes operational at the institution, highlighting their objectives and service components.

Detailed financial and operational data are provided in the **Table: 13**

Table:13 Financial and Operational data

Number Of KASP beneficiaries Treated Individual	169965
Number Of Claims raised (KASP)	265585
Claim Amount Kasp	6063485313
Number Of KBF beneficiaries Treated Individual	3642

Number Of Claims raised (KBF)	6702
Claim Amount Kbf	248932354
Number of Arogyakiranam (AK) Beneficiaries Treated Individual	605
Number Of Claims Raised Arogyakiranam (AK)	721
Claim Amount Arogyakiranam (AK)	12626075
Number Of Sruthitharangam Beneficiaries Treated Individual	6
Number of Claims raised (Sruthitharangam)	15
Claim Amount Sruthitharangam	2740801
Number Of Medisep Beneficiaries Treated Individual	4141
Number Of Claims raised(Medisep)	11298
Claim Amount Medisep	224138831

6.3 Department-Led Public Health and Special Programmes

Several departments conduct specialised programs aimed at disease prevention, early diagnosis, and long-term care. These include specialty clinics, early intervention services, and outreach-based activities.

Key initiatives include:

- Specialty clinics for diabetes, hypertension, geriatric care, high-risk pregnancy, and mental health
- Telemedicine and referral support services
- Early detection and follow-up clinics for non-communicable diseases
- Integrated maternal, neonatal, and child health services

These programs enhance continuity of care and reduce the burden on tertiary services through early intervention.

6.4 Research and Surveillance Programs

Medical College Hospital, Kottayam, contributes to state and national surveillance and research initiatives that support evidence-based public health decision-making.

Key activities include:

- Disease surveillance and reporting under National programmes
- Participation in Anti-Microbial Resistance (AMR) monitoring
- Support for zoonotic disease surveillance in coordination with public health authorities
- Data generation for policy formulation and health system strengthening

These activities are closely linked with departmental research and postgraduate training.

6.5 Community Outreach Activities

Community-oriented activities form an integral part of service delivery and medical education. The institution conducts regular outreach programmes in collaboration with public health agencies and local self-government bodies.

Major outreach activities include:

- Field-based training for undergraduate and postgraduate students
- Health camps and screening programmes

- Public health awareness campaigns aligned with National observance days
- School health and adolescent health initiatives

These activities strengthen community engagement and improve access to essential healthcare services.

6.6 Academic and Clinical Support Initiatives

Departments at MCH Kottayam provide specialised diagnostic, therapeutic, and academic support services that contribute to institutional excellence.

These include:

- Advanced diagnostic services supporting complex clinical decision-making
- Interdepartmental clinical consultations
- Skill development and translational research support
- Faculty-led mentoring and academic enrichment programs

Such initiatives enhance both patient outcomes and academic quality.

6.7 Conclusion

The specific programs implemented at Medical College Hospital, Kottayam, reflect the institution's strong alignment with government health priorities and its commitment to integrated service delivery. Through coordinated implementation of government schemes, department-led initiatives, research activities, and community outreach, the institution significantly strengthens public health impact while supporting academic and clinical excellence.

Chapter 7

EDUCATIONAL DEVELOPMENT PLANS

7.1 Introduction

Medical College Hospital, Kottayam, follows a structured and progressive approach to academic development, focusing on competency-based education, learner-centred teaching methodologies, and continuous quality improvement. The institution emphasizes integration of theoretical knowledge with clinical skills, professionalism, ethics, and community orientation to produce competent medical graduates and specialists.

7.2 Undergraduate Education

Undergraduate medical education at MCH Kottayam is delivered through the MBBS programme in accordance with the Competency-Based Medical Education (CBME) framework prescribed by the National Medical Commission (NMC). The curriculum integrates early clinical exposure, horizontal and vertical integration, skill-based training, and formative assessment strategies.

Teaching–learning methods include:

- Interactive lectures and small group discussions
- Problem-based and case-based learning
- Skill lab training and simulation exercises
- Structured clinical postings and community-based learning

Academic performance is monitored through internal assessments, university examinations, and structured feedback mechanisms.

Summary of Undergraduate Academic Performance

Table: 14 Undergraduate Academic Performance

Academic Indicator	Status
Pass Percentage	Consistently high
University Ranks	Achieved
Skill Certification	Implemented
CBME Implementation	Fully functional

7.3 Postgraduate Education

Postgraduate education at MCH Kottayam focuses on advanced clinical competence, academic scholarship, and research aptitude. MD/MS and DM/MCh trainees receive structured specialty training with supervised clinical responsibilities.

Key components of postgraduate education include:

- Specialty and super-specialty clinical exposure
- Journal clubs, seminars, and case presentations
- Research methodology training and dissertation work
- Participation in audits, CMEs, and academic conferences

Postgraduate students contribute significantly to patient care delivery while developing teaching and leadership skills.

7.4 Academic Support and Faculty Development

The institution supports academic excellence through faculty development programmes, medical education workshops, and continuous professional development initiatives. Faculty members are encouraged to adopt innovative teaching methodologies, assessment tools, and educational technologies.

7.5 Conclusion

Medical College Hospital, Kottayam, maintains a strong academic ecosystem that supports competency-based undergraduate education and advanced postgraduate training. Continuous curriculum refinement, faculty development, and learner-focused strategies form the foundation of the institution's education development plans, ensuring readiness to meet evolving healthcare and educational challenges.

Chapter 8

HDS DETAILS

8.1 Introduction to Hospital Development Society

The Hospital Development Society (HDS) of Medical College Hospital, Kottayam, functions as a statutory body established to support the efficient management and development of hospital services. The committee plays a vital role in mobilizing resources, facilitating timely infrastructure development, and improving patient care services through flexible financial mechanisms.

The HDS operates in accordance with government guidelines and functions in coordination with hospital administration to address immediate and long-term institutional needs.

Kottayam Medical College Hospital was registered by the Hospital Development Committee in 1999 (Registration No. K 1076/99). The management of the Society is done by the Executive Committee consisting of the District Collector of Kottayam as Chairman, the Principal of Medical College, Kottayam as Vice-Chairman, the Superintendent of Medical College, Kottayam as Secretary and the Lay Secretary & Treasurer of Medical College, Kottayam as the Treasurer of the Society.

Hospital Development Society oversees financial management, infrastructure improvements, digital queue system, and patient amenities.

8.2 HDS supported Services

CT and MRI scanning, lab facilities, and a pharmacy counter have been set up by the Hospital Development Committee for the patients, which are open for 24 hours a day. Extensive parking facilities and security arrangements have also been made.

8.2.1 Expenses

HDC funds have been utilized for:

- Procurement of essential medical equipment- Medicines & Consumables, Medicines for one time use, Medical equipments and spares, essential items, cleaning materials,

- Minor civil works and renovations - Annual maintenance charge, Sewage Treatment Plant, Vehicle maintenance,
- Maintenance of critical hospital services,
- Patient welfare and safety measures,
- SALARY - HDS Employees, Kudumbasree staff, Security staff (SISF),
- Printing and stationary charges.

Waste management

Waste disposal charge:

- Disinfestations expenses
- Fuel expenses for generator
- IT & Communication cost
- Legal & Professional cost
- Radiology charge

8.2.2 Fund Utilization

The Hospital Development Committee manages funds generated through user charges, grants, donations, and other approved sources. These funds are utilized to supplement government allocations and support service delivery, infrastructure maintenance, and equipment procurement.

Table:15 Last 10 Years Income & Expenditure in crores

LAST 10 YEARS INCOME & EXPENDITURE (in Crores)

Particular	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
Income	13.05 Cr.	14.27 Cr.	18.62 Cr.	18.65 Cr.	24.75 Cr.	24.72 Cr.	31.94 Cr.	40.80 Cr.	38.05 Cr.	38.06 Cr.
Expense	13.47 Cr.	14.40 Cr.	21.06 Cr.	22.87 Cr.	23.55 Cr.	30.27 Cr.	31.56 Cr.	42.61 Cr.	416.5 Cr.	38.91 Cr.
Excess of expenditure over income	(-0.43)	(-0.12)	(-2.44)	(-4.23)	1.20	(-5.55)	0.37	(-1.82)	(-3.60)	(-0.86)

8.3 Conclusion

The Hospital Development Committee serves as an important institutional mechanism for responsive and flexible healthcare development at Medical College Hospital, Kottayam. Through effective fund utilization and targeted infrastructure support, the HDC complements government funding and plays a significant role in enhancing patient care services.

Chapter 9

INNOVATIVE PROGRAMMES & CENTRE OF EXCELLENCE

9.1 Innovative Programmes

Medical College Hospital, Kottayam, has initiated several innovative programmes aimed at improving patient care delivery, enhancing academic outcomes, and strengthening system efficiency. These programmes focus on innovation in service delivery, technology adoption, and patient-centred care within the public health system.

Key innovative programmes include:

- Introduction of specialty clinics addressing chronic and lifestyle-related diseases,
- Integration of digital health solutions for registration, reporting, and follow-up,
- Adoption of protocol-based management for high-risk clinical conditions,
- Strengthening multidisciplinary care models for complex medical and surgical cases.

These initiatives have contributed to improved clinical outcomes, reduced service delays, and enhanced patient satisfaction.

9.2 Centre of Excellence

The institution has developed selected departments and service units into the Centre of Excellence, based on clinical expertise, infrastructure strength, academic output, and referral load. These centres function as regional referral hubs and training platforms for advanced medical care.

Patient Care

1. MBFHI (Mother & Baby Friendly Hospital Initiative) certification.
2. Lakshya certification received by the medical college.
3. Liver transplant surgeries: 7 successful surgeries completed.
4. Heart transplant surgeries: 11 successful surgeries completed.
5. MEDISEP Performance: 2022: Best performer (First position).

2021: Second position.

6. Providing treatment to poor patients through the Pradhan Mantri's Health Insurance Scheme.
7. Received the Arogya Manthan 3.0 Award given by the National Health Authority, for being the institution providing the most treatments.
8. Mobilizing highest number (25109) of voluntary blood donors in Govt. Medical Colleges of Kerala (2024) – Dept. of Transfusion Medicine
9. First in Kerala to start a Transgender Clinic.
10. First in Kerala to start an M.D.S. course in Public Health Dentistry at the Kottayam Dental College.
11. The first government-level Cardiac Rehabilitation Center.
12. Nephrology Department- Home to the largest dialysis unit in India.
13. Critical Care: World's first in 'Hemoperfusion treatment' for removing toxins from the body, reducing the mortality rate from 84% to 24%.
14. Cardiology Department: Ranked first in India for Primary Angioplasty in previous years and ranked third in India for Total Angioplasty. Initiated modern treatment for correcting heartbeat (Electrophysiology). First to start TAVI (Transcatheter Aortic Valve Implantation), a procedure to replace the heart valve without surgery, in this medical college hospital, with 4 procedures completed so far. Established all modern equipment (Oct, IVUS, ROTA, AI ECHO). Successfully completed 12000 Interventional Cardiology Procedures in the last 5 years.
15. Gynaecology Department: Delivered the second test-tube baby in the government sector in Kerala. Treated and saved 249 mothers facing high-risk pregnancies (Near Miss Mortality) referred from other hospitals in the last seven years.
16. Interventional Radiology Department: Performed over 4000 Interventional Radiology procedures and over 100 major Neuro-Interventional procedures, placing them at the forefront in India.

17. Neuro Surgery Department: Performs close to 1000 major operations annually.
18. Cardiovascular Surgery Department: Performs over 2000 major operations annually. Completed over 500 surgeries for complex and expensive Aortic Aneurysm & Aortic Root in the last 5 years. Recognized as one of the three major aortic surgery centers in India. Performed over 1000 mitral valve repairs in the last 10 years, making it a leading center in India for this procedure. The Cardio-thoracic Surgery Department has gained attention by conducting 7 national-level workshops for cardiothoracic surgeons from various parts of India.
19. Gastro Project: Performs over 1000 surgeries annually. Performs over 1000 keyhole surgeries (Laparoscopic Project) annually.
20. Level 1 Trauma Centre: Equipped with all facilities (128 Slice CT scan, MRI, Zoning facility, 5 emergency OTs, Digital X-Ray, Casualty lab etc.). Preparing for NABH accreditation.
21. Plastic Surgery Department: Performs the highest number of Microvascular Surgeries in the government sector and the second highest number of cancer reconstruction surgeries in Kerala after RCC.
22. Surgical Oncology: Started as part of the RCC nodal treatment and is functioning well.
23. Cadaveric Kidney Transplants: 61 performed. Related Donor Kidney Transplants: Over 189 performed (second highest in the government sector after Kozhikode).
24. Autism Centre: A Kerala Social Security Mission Initiative is functional in the Pediatrics department.
25. Waste management: A fully functional Material Collection Facility for general waste management, Aerobic Composting unit & Biogas Plant for Food waste. Renovated Sewage Treatment Plant functioning by the house keeping department.
26. NABH Accreditation: As part of this initiative a Quality Control Cell with nodal officer & supporting staff was implemented which is now continuously monitoring the quality standards of patient care & safety. Around 21 committees were formed

to monitor the activities of each key area - Adherence to NABH standards, continuous quality improvement, staff training, patient safety & risk management, internal audits, reporting etc.

27. Table:16 Surgical achievements

Procedure	Volume (Past Few Years)	Notes
Lung Transplant Surgery	1	Successful completions
Liver Transplant Surgery	7	Successful completions
Heart Transplant Surgery	11	Successful completions
Interventional Cardiology	12000	Completed in the last 5 years
Major Cardio Operations	>2000 per year	-
Major Neuro Surgeries	~1000 per year	
Aortic Aneurysm & Root Surgery	>500	Completed in the last 5 years; One of 3 major centers in India
Mitral Valve Repair	>1000	Completed in the last 10 years; Leading center in India
Laparoscopic Surgeries	>1000 per year	
Gastro Surgeries	>1000 per year	

Interventional Radiology	>4000	
Major Neuro-interventional	>100	
Cadaveric Kidney Transplants	61	
Related Donor Kidney	189	Second highest in the government sector in Kerala

9.3 Unique Academic Institutional Initiatives

Medical College Hospital, Kottayam, has implemented several unique institutional initiatives that distinguish it within the government healthcare system.

Major Achievements

Academic

- The first Government Medical College to receive KUHS accreditation with A+ grade.
- Keralasree Award 2024 – Dr. T.K. Jayakumar.
- Best Doctor Award by KUHS (2024) – Dr. Sairu Philip.
- In the year 2023-2024 Diamond jubilee celebrations were held and as part of various initiatives - renovation of lecture halls, Library, Sports Complex, seminar rooms, staff & student's programmes, Medex etc. Around 5 crores of funding was raised from various batches by the Alumni Association.
- The Medical Exhibition was held in Nov - Dec 2023 by the Student's Union.
- Best College Union under KUHS - 2022-23.
- PTA association - PTA is also taking keen interest and strong steps to maintain discipline, law & order in the college. The role of PTA executive members in

supporting the administration for solving various issues related to students is commendable.

- Best Pharmacist in Govt. Sector Award (Kerala Pharmacy Council) 2024 – Sri. Harikumar Raveendran
- Patent Registration by the Patent Office (Govt. of India) – Dr. Shamna, Pharmacy College
- Under Graduate Essay Competition UGMEB, National Medical Council of India and IAPSM 2024 – Appu Rajosh (2021 Batch MBBS)
- The first Government Medical College to start a Bachelor of Physiotherapy course.
- The Medical Education Unit is one of the 10 nodal centers in India for the training of medical college teachers. It serves as a training center for government and non-government medical teachers from Kerala, Karnataka, and Tamil Nadu. Over 300 research papers have been published in this field.
- MDRU - Allocated amount: ₹5 crore. A fully functional MDRU with 7 projects approved by LRAC.
- ICMR grants of around 42.5 lakhs was received for various staff & student projects - 2025

Courses newly started and the year of commencement:

1. DM in Infectious Diseases (2022) - 2 seats
2. MD in Radio Diagnosis - seats increased from one to three
3. Diploma in CSSD Technician (2021)- 4 seats
4. Diploma in Endoscopy Technology (2022) – 4 seats
5. BSc Medical Imaging Technology (2023) - 10 seats
6. Bachelor of Physiotherapy (2024)- 30 seats

Newly created posts:

1. The Emergency Services Department started functioning with the allocation of 1 Professor, 2 HDS doctors, 4 Assistant Professors, and 4 Senior Residents.
2. The Surgical Gastroenterology Department started functioning with the allocation of 1 Professor, 1 Associate Professor, 2 Assistant Professors, and 4 Senior Residents.
3. 166 Staff Nurse posts.
4. Increased MBBS seats by 25.
5. Medical PG seats - 22 Diploma seats were converted to PG seats, and 3 new seats were allocated.
6. Pediatric Cardiologist – 1 post.
7. Pediatric Cardio Surgeon - 1 post.
8. Cardio Anesthesiologist – 1 post.
9. Pharmacist – 28 posts.
10. Faculty posts: Dental College - 4, Physical Medicine - 1.
11. Cath Lab Technician - 4 posts.
12. Assistant Professor - Urology - 1 post (started for the first time).
13. Assistant Professor - Interventional Radiology - 1 post.
14. Assistant Professor - Neonatology- 1 post
15. Associate Professor - 1 post.
16. Tutor Assistant - Neonatology- 2 posts - HDS
17. 21 posts in the departments of Ortho Surgery, Medical Oncology, Ortho Pathology.
18. 17 posts in the Emergency Medicine Department.

19. The departments of Pediatric Cardiology, Cardio Surgery, and Cardio Anesthesia together became the first institution under the state government to receive operational approval.

These initiatives reflect the institution's commitment to innovation, accountability, and excellence in public healthcare delivery.

9.4 Conclusion

The innovative programmes and Centres of Excellence at Medical College Hospital, Kottayam, underscore the institution's proactive approach to advancing healthcare delivery and medical education. Through targeted innovation, specialised centres, and unique institutional initiatives, the hospital continues to strengthen its role as a leading tertiary care and teaching institution within the public health system.

Chapter 10

FUND UTILISATION

10.1 Overview

Medical College Hospital, Kottayam, utilises funds received from multiple sources to support infrastructure development, procurement of medical equipment, strengthening of clinical services, and enhancement of academic and training facilities. Fund utilisation is carried out in accordance with government financial rules, scheme-specific guidelines, and institutional priorities, with an emphasis on transparency, accountability, and optimal resource deployment.

The major funding sources include State Plan funds, centrally sponsored schemes such as PMSSY and NHM, Hospital Development Committee (HDC) resources, and Corporate Social Responsibility (CSR) contributions.

10.2 Year-wise Expenditure Summary

Funds received from various sources are utilised in a phased and planned manner to meet both recurring and capital expenditure requirements. Priority is accorded to patient care services, critical infrastructure, and regulatory compliance.

Fund Allocation/Utilization Details

Table:17 Fund Allocation/Utilization

Financial Year	PLAN SCHEMS	CENTRAL SCHEMS	NABARD SCHEMS	KIFFB/NHM SCHEMS
2016-17	22.94 Cr.	-	-	-
2017-18	68.02 Cr.	-	-	-
2018-19	24.87 Cr.	2.41 Cr.	-	564 Cr. KIFFB - Construction

				of Surgical & Super Specialty Block
2019-20	26.61 Cr.	-		-
2020-21	30.51 Cr.	-	36.41 Cr. Construction of 200 Bed Cardiology Block	-
2021-22	31.03 Cr.	1.72 Cr.	10.71 Cr. Establishing Institute of Infectious Diseases	-
2022-23	36.23 Cr.	-	-	-
2023-24	22.89 Cr.	3.11 Cr.	-	23.75 CR - NHM - Construction of Critical Care Block
2024-25	22.52 Cr.	3.41 Cr.	-	-

10.3 Scheme-wise Beneficiaries and Fund Utilisation

Table:18 Scheme-wise Beneficiaries and Fund Utilisation

Description	Number of beneficiaries
Number of KASP Beneficiaries Treated Individual	169965
Number of Claims raised (KASP)	265585
Claim Amount KASP	6063485313
Number of KBF Beneficiaries Treated Individual	3642
Number of Claims raised (KBF)	6702
Claim Amount KBF	248932354
Number of Arogyakiranam (AK) Beneficiaries Treated Individual	605
Number of Claims raised Arogyakiranam (AK)	721
Claim Amount Arogyakiranam (AK)	12626075
Number of Sruthitharangam Beneficiaries Treated Individual	6
Number of Claims raised (Sruthitharangam)	15

Claim Amount Sruthitharangam	2740801
Number of Medisep Beneficiaries Treated Individual	4141
Number of Claims raised(Medisep)	11298
Claim Amount Medisep	224138831

10.4 Financial Oversight and Accountability

All fund utilisation is subject to established financial controls, audits, and reporting mechanisms. Utilisation certificates, audit reports, and scheme-specific compliance documents are maintained as per government norms and are reviewed periodically.

10.5 Conclusion

Effective utilisation of funds from multiple sources has enabled Medical College Hospital, Kottayam, to strengthen infrastructure, enhance service delivery, and support academic excellence. Continued financial planning and prudent resource management remain central to the institution's development strategy.

Chapter 11

RESEARCH INITIATIVES & ACHIEVEMENTS

11.1 Overview of Research Activities

Medical College Hospital, Kottayam, actively promotes research as an integral component of medical education, clinical practice, and public health service. Research activities are undertaken across pre-clinical, para-clinical, and clinical departments, addressing locally relevant health problems while contributing to National and global scientific knowledge.

The institution encourages faculty- and student-led research, ethical research practices, and interdisciplinary collaboration, supported through institutional research governance mechanisms.

11.2 Research Collaborations

Medical College Hospital, Kottayam, collaborates with National and International agencies, universities, and research bodies to strengthen its research ecosystem.

The funding for the research activities is obtained intramurally through the State Board of Medical Research (SBMR) and extramurally from the Department of Health Research to the Multidisciplinary research unit as well as Indian Council of Medical Research. The State Board of Medical Research provides funding for the research projects as well as for research dissemination through presentations and publications. A total of three lakhs and five lakhs were received for funding the research in 2023 and 2024 from SBMR. The MRU received a total funding of 1.73 crores since inception, and in March 2025 an additional funding of Rs 64,88,865 received. The faculty and students of GMCK received funding from the ICMR amounting to around 42.5 lakhs. In the year 2025, five students have been selected through the ICMR Short term studentship funding.

11.3 Memorandums

GMC Kottayam has a memorandum of agreement as well as understanding with the Mahatma Gandhi University for various research activities

11.4 Research facilities

The Kerala University of Health research has approved 31 departments of this institution as Research Centres for doing PhD under KUHS and there are currently 8 faculty who are approved PhD guides. The Multidisciplinary Research Unit, various labs, rich clinical material, manpower services offered by the Department of Community Medicine, Central library with e-Subscriptions, access to free statistical software like Jamovi, JASP, and the referencing tools like Zotero are the research facilities available in the institution.

11.5 Research Support Workshops

Every year the department of Community Medicine conducts research methodology workshops for the residents and interested faculties of the institution. This year the Community Medicine department conducted a guidance workshop for the guides of the institution. The Institutional Review Board, along with the Department of Pharmacology, conducted a FERCI accredited National workshop on GCP and grant writing in 2023. A talk on “Improving Patient Care Through Clinical Research” was conducted on July 25, 2023, by the Research Enabling Unit in collaboration with the Department of General Medicine. In the year 2024, an ICMR associated workshop on implementation research and grant writing was conducted by the Department of Community Medicine and Multidisciplinary Research Unit. The department of Pharmacology also conducted the Clinical Trial Protocol writing workshop. Apart from this the MRU has conducted training on bibliography and Zotero, Department of Pharmacology has conducted a workshop on Basics of Jamovi.

11.6 Research Day Celebrations

The institution celebrated its first Research Day on June 16, 2023, in which one undergraduate student and one resident presented their project. A logo making competition was held on the theme One Health, and one amongst the entries was selected as the research day log. On May 2, 2024, the second research day of the institution was conducted with 10 oral presentations by MBBS students and Residents. The best paper published in 2023 was given the Best Published Paper award and Dr Vinu V Gopal of Neurosurgery department received the award. A panel discussion was conducted with representatives of various research bodies of the institution. For 2026, the research day is planned for May 7th and 8th.

11.7 Publications and presentations

The faculty of GMC Kottayam has published around 360 papers between 2020 and 2023, and in the year 2024 it was 56. The faculty of the institution has presented various projects and papers at State, National and International conferences.

11.8 Awards

Several faculty and residents have obtained best research paper/poster awards in National and International conferences of which some of the notable achievements were Dr Ajith Kumar K, Vice Principal and HOD of Dermatology receiving the Prof S Premlatha award for the best research projects in Dermatology, Dr P S Anushree, JR in the department of Pulmonology receiving the best poster award in the International Pulmonology conference, Dr Harinath S, JR in Medicine receiving the best ePoster award at APICON 2024, Dr Jomon Jacob, Assoc. Prof of Forensic Medicine receiving the first prize in AFMEKON-2024, Dr Sindhu RS receiving the best free oral paper at National conference of Indian Association of Surgical Gastroenterology, and Dr Sudha Kumary V receiving the Asia Research Award 2024.

Principal Dr Varghese P Punnoose was awarded the Asia Pacific Award of World Federation of Psychiatry. Dr Sairu Philip was selected for the Best Teacher Award of Kerala University of Health Sciences.

11.9 Ongoing Research works

Seven faculties of the institution are currently pursuing part-time PhD at various universities. Faculty of all the departments carry on individual research works which are in-departmental or interdepartmental or multicentric. Thesis-related works are actively conducted under the guidance of guides and co-guides. There are seven research works in MRU that have received approval from the Local Research Advisory Committee, of which 4 have been initiated and three others are awaiting funds.

11.10 Conclusion

Medical College Hospital, Kottayam, maintains a steadily growing research profile supported by institutional commitment, external funding, and academic collaboration. Ongoing efforts

to strengthen research capacity and output are expected to further enhance the institution's academic standing and public health impact.

Chapter 12

TRAINING PROGRAMMES

12.1 Overview

Skill development and capacity building form a core component of medical education and service delivery at Medical College Hospital, Kottayam. The institution emphasizes structured skill training, simulation-based learning, and continuous professional development to ensure competence, patient safety, and quality care. This include CME, workshops, resident skill training, nursing refresher courses, outreach training and collaborations with NMC centers and online CME platforms.

12.2 Medical Education Unit

The Medical Education Unit (MEU) of this college has been functioning from 1997 onwards. Our unit was identified as Regional Centre for MET from 2010 and as NMC Nodal centre for faculty development in August 2014 (<https://sites.google.com/view/nmc-ncfd-gmck/home?authuser=0>) with Dr R Sajith Kumar, Professor Emeritus, Infectious Disease Unit as the convenor. Dr Mary Chacko, Professor and Head, Physiology is the faculty in charge of MEU. The unit has been organizing and participating in various NMC/MCI activities in connection with the AETCOM and CBME program in National, zonal, University and Institutional levels as well. So far 54 basic courses on MET have been organized in this centre and many have been coordinated in eighteen affiliated institutions. Twelve batches of NMC/MCI Advance Course (ACME) with 330 participants from 40 affiliated colleges have been organised here. All of our faculty have completed the same at various nodal centres under NMC(MCI). Currently 23 Medical Colleges have been allocated under our Nodal Centre as per circular D 11011/377/2023/Academic Cell dated 06.04.2023.

Aim

To improve the quality of medical training by training the teachers

Objective

- To sensitize teachers about new concepts in teaching and assessment methods.

- To develop knowledge and clinical skills required for performing the role of competent and effective teacher, administrator, researcher and mentor.
- To assist clinicians to acquire competency in communication and behavioral skills.
- To update knowledge using modern information and research methodology tools.

Staff

1. Dr Sajith Kumar R, Professor Emeritus IDU, GMC Kottayam-Convenor
2. Dr Radha T R, Professor and Head, Medicine-Co-convenor-Professor in Charge
3. Dr Suresh Vadakkedom, Additional Professor, Pediatrics-Co Convenor
4. Dr Sairu Philip, Professor and Head, Community Medicine
5. Dr Saritha J Shenoy, Professor CAP, Physiology
6. Dr Geetha Devi M, Additional Professor, Community Medicine
7. Dr Sathi M S, Additional Professor, OBG
8. Dr Ajay Kumar, Additional Professor, OBG
9. Dr Evelyn Thomas, Professor, CAP Physiology
10. Dr Dhanya S P, Professor CAP, Pharmacology
11. Dr Athulya G Asokan, Assistant Professor, Medicine
12. Dr.Jenish Joy, Assistant Professor,Anatomy
13. Dr Deepa S, Assistant Professor,Pathology
14. Dr Gino Abraham, Professor & HOD Physiology

Courses organized by the Unit

- Basic Course in Medical Education BCME
- Advance Course in Medical Education ACME

Achievements

1. The unit coordinated CME programs by various departments with budget support from the Institutional Research Committee (SBMR).
2. Dr Sajith Kumar R, the Convenor, is also National Consultant and member of the Expert Committee on revision of BC and AETCOM Curriculum, NMC Expert Group and Reconciliation Board, Expert Group on Implementation & Monitoring, Taskforce for monitoring CBME, etc. at NMC.
3. The Centre has already organized 10 AETCOM sensitization workshops for faculty from allocated colleges.
4. Six-day Pre-Internship Orientation Program with skills training is being conducted from April 2015 onwards. Sessions were mediated by the centre.
5. The faculty also participated in academic meetings of KUHS. The convenor is also a member of the Academic Council and Quality Assurance Council.
6. The Centre is also involved in the preparation of 15 online for NMC (available on the website), including Pandemic Management module, Skills Training module, AETCOM (Attitude, Ethics and Communication) module etc.
7. The Centre had also organised non-conventional training programs in Administration, Cybersecurity, IPR development, Research Methodology etc., for all teaching and non-teaching staff in the college as well. The centre is also associated with Dental faculty and with all faculty training programs under the Academic Staff College of KUHS.
8. The NMC Nodal Centre is also involved in the implementation and monitoring of the new CBME curriculum being implemented from the 2019 MBBS batch all over the country. This includes novel concepts like Foundation Course, Cadaver ceremony, Whitecoat ceremony, Early Clinical exposure, Vertical and Horizontal Integration, Electives etc., for U.G. students. We are collating the implementation details and helping colleges and monitoring the function of skill labs in the allocated colleges for the National Task force of NMC as well.

Trainings Attended by MCH Kottayam Faculties

1. Research workshop at Jubilee Mission Medical College, Thrissur, on 26th & 27th March 2025 -- Dr Chitra James, Assistant Professor, Transfusion Medicine.
2. One-day workshop on "Integrating Gender Perspectives in Health Science Education" on 25th February 2025 from 9:30 AM to 3:30 PM at the Conference Hall, School of Public Health, Govt. Medical College Campus, Thiruvananthapuram-- Dr-Shamna M S, Assistant Professor, Pharmacy.
3. National conclave of Blood Transfusion Services conducted from 5th to 6th February 2025 at Kochi, Kerala -- Dr Chitra James, Assistant Professor, Transfusion Medicine.
4. Direct Trainers Skills (DTS), conducted at IMG Thiruvananthapuram from 24th to 28th Sep 204 -- A G Santhosh Kumar, Lecturer- Medico Sociology, Community Medicine.
5. Training on Govt Accounts- "Classification of Govt accounts and budget based on Kerala Account Code and Kerala Budget Manual"-- on 08th Aug2024 from 10.30am to 5.00pm at PGR Hall near, Superintendent office, MCH—All administrative staff, MCK.
6. Department of Radiology for conducting academic activity in the Department of Radiology - academic activity (infrarenal aortic aneurysm workshop comprising two cases) --- Dr Aswin Padmanabhan, Consultant Interventional Radiologist.
7. National CME on Transfusion Medicine at Hyatt Regency, Thiruvananthapuram- conducted from 11th to 12th July 2024-- Dr Chitra James, Assistant Professor, Transfusion Medicine.
8. Brainstorming Workshop at Trivandrum on 18th April '24 – Establishing IEDCs in Kerala's Medical & Dental Institutions-- Dr Athul Gurudas, Associate Professor --- Infectious Diseases.

9. Workshop on 'Establishing IEDCs in medical Institutions of Kerala' at Mascot Hotel, TVM from 27th to 29th Feb '24-- Dr Athul Gurudas, Associate Professor ---Infectious Diseases.
10. State level Hemophilia Comprehensive care training programme at Trivandrum from 28th to 29th April '23-- Mr Subin Solomen, Scientific Assistant, Physiotherapy.

12.3 Clinical Nursing Education Unit

The unit of in-service nursing education was established in MCH Kottayam on 1st July 2018 with the initiation of the superintendent Dr.T.K Jayakumar, and nursing officer in charge Mrs. Prasanna D, by deputing two staff nurses from clinical side. The official inauguration of the unit was carried out on 17th January 2019 by honorable Health Minister Smt. K. K. Shailaja teacher in the presence of Director of Medical Education, Dr. Ramla Beevi. Through the reports and presentations of the superintendent, the work of the unit got noticed by the government, and direction to set up such units in all medical college hospitals was issued as per the government order G.O. (Ms) No. 63/2019/H&FWD dated 28/05/2019. Later our unit was renamed as the Clinical Nursing Education Unit and is functioning with a Chief Coordinator, Assistant Coordinator and facilitator.

The unit is aimed to disseminate knowledge to nurses and auxiliary staff on different topics of clinical relevance, and for this, classroom training and clinical teachings are running regularly. The major activities of the unit are:

Functions

Since 2019, July 17th, the unit has functioned with two full-time staff and a facilitator from the teaching side. The activities are timely reported directly to the Superintendent and Chief Nursing Officer. In collaboration with the medical education unit, quality improvement cell, and infection control team, the unit carries out different training and suggests practice modifications to improve the quality of care.

Major Activities

- **Compulsory trainings**

a. Induction training

For newly appointed nurses and other workers, we are giving basic orientation as per the concern and it is going on. This programme is running twice monthly on the 1st and 15th of every month. In the induction programme we have included the general physical setup of our institution, basic infection control practices, policies & procedures of GMCH Kottayam, & the duties & responsibilities of each category of staff working in the GMCH Kottayam. Till now, we have conducted 339 sessions as induction training.

b. Hospital Infection Control Training

Infection prevention & control is a key component of quality control and ensuring patient safety in all hospitals. The best and most cost-effective aspect of infection control measures is to impart general awareness on infection control practices among employees. Practicing good infection control measures can significantly reduce patient morbidity and mortality. This infection control training is given to all employees under nursing administration.

c. Basic Life Support (BLS)

BLS training prepares an employee to act wisely, promptly and perfectly in a situation of a cardiac arrest. Having an entire workforce trained in BLS can make a significant impact in reducing workplace accidents. This policy adheres the importance of BLS training for all the supporting staff who are working at the hospital. Within one hour it is provided to the staff with a demonstration.

d. Advanced Life Support Training (ACLS)

ACLS Training is provided to all the nursing professionals who are working in the GMCH Kottayam. We are utilizing the expertise of our anaesthetists and emergency physicians as resource persons. This training is given for 3 hours. One-to-one hands-on training is also provided along with this.

e. Fire & Safety Training

This training helps the employee to get an awareness regarding the possible risk and the prevention of fire incidence in hospital premises. In this training the topics covered

are preventive aspects of fire, orientation about fixed firefighting equipment, and evacuation guidelines. So it equips the employee with the skills and knowledge to combat the fire and adopt further measures to evacuate. Yearly refresher training and periodic mock drills (once in 6 months) are conducted for the entire employees. Till now we have covered more than 3000 staff, including doctors, nurses, supporting staff, security staff, lift operators, and other technicians. This training was extended to the ICH staff too.

➤ **Need-based classes and training for all categories of staff**

Need assessment done among senior nursing officers and staff representatives and reports from the nursing administrators and the central quality wing. As per the needs identified, we arrange the training on the related topics for the concerned staff. Whenever any epidemic or pandemic emerges, priority would be given to this topic for the training. This helps to identify the specific skills, knowledge, and abilities of the employees needed to improve for achieving the organizational goals.

➤ **Bio medical equipment handling trainings for staff nurses & supporting staff**

The main objective of the biomedical training is to create awareness among the supporting staff regarding the safe handling of biomedical equipment used in the clinical setting. This training was well received by the participants and improved their skill in handling the equipment.

The biomedical training programme was arranged as per the need of the staff. CNEU emphasized to do regular biomedical training in each area once in three-month basis and whenever new equipment is installed in an area. Area specific biomedical training is organized by the area itself in accordance with the convenience of the staff in each area and the biomedical team. The attendance is maintained in the internal training register kept in the concerned area.

➤ **Self-defence training for staff by the civil police officers and narcotic cell**

The self-defence training aimed to empower the staff to protect themselves in any unsafe situations. This helps them to boost their self-confidence, and mental

preparedness to handle the challenging situations in their work place. This was given to all categories of staff including doctors, nurses and other paramedical staff working in GMCH Kottayam. We have organized two sessions and covered 236 staff.

➤ **Legal & ethical training**

This was conducted to enhance the awareness among hospital staff regarding the legal and ethical implications of their health care practice. This helped the staff to understand the importance of documentation, communications and reporting mechanisms for medico legal incidents.

POCSO awareness class was also conducted among the gynaecology staff to enhance their understanding of the POCSO procedures.

Legal aspects in handing over a child to CWC: CNEU conducted an awareness session with the help of the Child Welfare Committee on handing over orphan child to CWC. It was given to the staff working in the Gynecology Block.

➤ **NTEP sensitization training for both nurses & supporting staff**

To impart the recent activities of the NTEP cell and the role of health care workers in the National TB Elimination Programme, CNEU organized many NTEP Sensitization trainings for the staff working in the GMCH Kottayam. We could cover around 315 staff with this training.

➤ **Covid related trainings**

CNEU is conducted COVID 19 outbreak related training and covered topics like safe use of PPE, IPC guidelines, intensive management of patients with COVID-19 in three levels. With 259 sessions, CNEU covered 4417 participants. Besides classroom education, hands-on training sessions are also arranged in isolation wards.

➤ **Training on stroke**

Since inception of the stroke unit we have coordinated a training on stroke for the selected the nursing staffs working in the emergency department. Stroke training for ED nurses is crucial because it improves patient outcomes, reduces treatment times, and ensures adherence to stroke protocols. It helps to enhance the nurses to act quickly

in recognizing stroke symptoms, and implementing life-saving interventions like thrombolysis, thrombectomy etc. to prevent complications.

➤ **Training on organ donation**

For promoting the organ donation, we have initiated a training programme for ICU nurses and emergency nurses regarding organ donation procedures.

➤ **Accreditation based training**

LaQshya-related Training: As a part of the Laqshya accreditation programme, we have conducted training for all the staff from the Gynecology department including doctors, nurses, auxiliary staff and other staff regarding Basic Life Support and hospital infection prevention. For doctors and nurses, we have also conducted advanced cardiac life support training. We could do the retraining sessions on an yearly basis for the surveillance assessment also.

MBFHI-related trainings are also conducting on regular intervals for the staff working in the Gynecology Department as per the checkpoints mentioned in the assessment criteria.

NABH Trainings are given to all the staff working in the Emergency Department including doctors, nurses, supporting staff, paramedical staff etc. CNEU developed a syllabus for the NABH training and according to that we have conducted separate sessions for each category.

➤ **Refresher Training Programme**

Refresher training was provided to all employees as a mandatory training and accreditation-based training on an yearly basis.

➤ **Health Day Observations & Awareness Programme**

Every month the clinical nursing education unit celebrates important health days, followed by an official programme, and a scientific presentation on the concerned topic for the staff and awareness programme for the public.

➤ **Clinical Teaching Programme**

A system of clinical teaching programme is running in MCH Kottayam on a monthly basis for the staff as well as patients. CNEU announces topics for each month in the beginning of the new year itself. The entire hospital is divided into 19 blocks comprising 3-4 areas. One resource person from an area is assigned by CNEU who will be the responsible person to conduct the staff teaching session. It will be evaluated by 2 Senior Nursing Officers using an evaluation criterion. The topics for the patient teaching is selected according to the need of the concerned area.

➤ **Occupational safety programme**

CNEU launched 'Occupational Safety Programme' for all staff of MCH, Kottayam, on 6th August 2019 to ensure hepatitis B vaccination coverage. In this programme routine blood investigations, hepatitis B status assessment, anti HBSAg titre estimation, medical checkup, & hepatitis B vaccination were done for participants and also provided vaccination card and health record for the employees.

➤ **Cancer Screening Campaign**

As a part of the state initiative and in collaboration with the oncology department, organized the cancer screening programme for the staff as well as for the public. The campaign included breast examination, Pap smear, Mammogram & USG for needy ones. We could cover around 850 people through this campaign.

➤ **Research works**

In collaboration with Dr Sajith Kumar, previous HOD, Infectious Disease Unit, CNEU took part in two research projects, for which data is collected during occupational safety programmes:

- 'Knowledge and awareness status of health care providers regarding transmission of hospital acquired infections and infection control practices'
- Hepatitis B immunization status of health care providers in Government Medical College, Kottayam

Our major strength is strong support from the superintendent and the nurse administrators. We are moving forward for the betterment of clinical practice and fame of MCH, Kottayam and we feel proud to be a part of the MCH Kottayam.

12.4 Conclusion

Medical College Hospital, Kottayam, has developed a robust framework for skill development, simulation learning, and capacity building. These initiatives strengthen clinical competence, academic quality, and patient safety, supporting the institution's mission of excellence in healthcare delivery and medical education.

Future Needs

- E - health implementation.
- Safety Devices (Safety belts, Side rails)
- Public address system.
- Drinking water facility
- Hospital Kitchen.
- Hospital information system
- Pneumatic Vacuum System.
- Referral system
- Solar Panel Installation
- Effluent Treatment Plants

Conclusion

Government Medical College, Kottayam continues to lead in medical education and healthcare innovation. The coming years aim to consolidate the achievements, expand research capabilities, and ensure high-quality healthcare and education for all.



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