

MALABAR CANCER CENTRE COLLEGE

(an autonomous centre under Government of Kerala)

Affiliated to Kerala University of Health Sciences

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BACHELOR OF SCIENCE IN MEDICAL RADIOLOGICAL TECHNOLOGY (B.Sc. MRT)

PROSPECTUS

MALABAR CANCER CENTRE COLLEGE
BACHELOR OF SCIENCE IN MEDICAL RADIOLOGICAL TECHNOLOGY
(B.Sc. MRT): - 2017 -18

Malabar Cancer Centre, Thalassery is an autonomous institution under Department of Health and Family Welfare, Government of Kerala, started in 2001, as a comprehensive cancer centre for the benefit of northern region of Kerala. Since its inception it has grown tremendously in terms of modern equipments, treatment and prevention of cancer. With increasing incidence of cancer, more institutions need to get equipped for treatment of cancer and we realize the need for focused training in oncology. This is a step towards better care for patients in the present milieu and molding professionally competent Radiology and Radiotherapy Technologists

Medical Radiological Technology deals with the application of different types of radiations and allied tools for the diagnosis and treatment of diseases. Radiations of significance are all the ionizing and non ionizing radiations like the complete electromagnetic spectrum – radio waves to cosmic radiation, ultrasound waves and particle type atomic radiations. Besides, use of nuclear magnetic resonance and application of various radio nuclides in medicine also form significant components of this program.

Graduates in Medical Radiological Technology are professionals who mostly work as technologists in medical institutions. They are in great demand both within India and abroad. Potential for employment abroad for such professionals is tremendous and continues to register a constant upward trend only. Besides, industry engaged in the design, manufacture, and sale of radiological systems of varied types need these graduates as application specialists. Thus, successful candidates who complete this course are sure to get useful employment in the public and private sectors in India as well as abroad. There is a great demand for these professionals in all the developed and developing countries and the present annual intake in such courses worldwide is far short of the requirements. Hence, career opportunities for radiology technologists will continue to be bright and rewarding in the near and distant future.

Mission

Non-compromising professionalism in quality of treatment, research and education.

Vision

The development of an exponentially progressing high quality institution with equal trust on clinical care, oncology related education and multifaceted research.

Objectives of course:

To mould professionally competent Radiological Technologists

At the end of the course the successful candidate should be:

- able to do independently qualitatively good routine radiographic procedures.
- able to do special investigations under guidance of specialists in diagnostic radiology.
- able to execute all routine and state of the art radiotherapy programs as per prescription and direction of radiation oncologists and physicists
- able to operate and maintain all equipments used in investigative and therapy procedures.
- able to exercise professional skill and optimization in all technological aspects of existing and emerging branches of radiological and radiotherapy practices.
- able to use ionizing radiation observing all national and international guidelines on radiological safety and accepted protocols in individual cases of the different applications. the technologists will develop a high level of safety consciousness and learn to follow accepted work practices to achieve optimum use of radiation in varied applications.
- able to assist in the use of ionizing and non-ionizing radiations for diagnosis and treatment of diseases.

Medium of instruction: The medium of instruction for the course shall be English.

Eligibility: Candidates for admission to the course shall have passed the Plus Two examination or equivalent with 50% marks in Physics, Chemistry and Biology put together.

Duration of course: The duration of the course shall be four academic years

Course Curriculum:- The Course curriculum is prepared by Kerala University Of Health Sciences, Thrissur

First Year

Paper	Subjects	Theory Hours	Practical Hours	Tutorials Hours	Total Hours
I.	Anatomy	200		40	240
II.	Physiology	200		40	240
III.	General Physics and Electronics	200	80	40	320
IV.	Atomic and Nuclear Physics	160		40	200
V.	Mathematics	120		40	160
VI.	Computer Science	30	40	10	80
VII.	General Papers: • Special English • Community Medicine, • Sociology, • Psychology, • Health education	40		40	200
		120			
	Total	1070	120	250	1440

Second Year

Paper	Subjects	Theory Hours	Practical Hours	Tutorials Hours	Total Hours
I.	Radiation Physics I	160	40	40	240
II.	Radiotherapy I	180	360	40	580
III.	Radiodiagnosis I	180	360	40	580
IV.	Pathology	30		10	40
	Total	550	760	130	1440

Third Year

Paper	Subjects	Theory Hours	Practical Hours	Tutorials Hours	Total Hours
I.	Radiodiagnosis II	180	310	40	530
II.	Radiotherapy II	180	310	40	530
III.	Radiation Physics II	180	40	40	260
IV.	Pathology	70	40	10	120
	Total	610	700	130	1440

Fourth Year

In the fourth year, the students will be posted to work in Malabar Cancer Centre, Thalassery and to carry out project work simultaneously. Hospital posting as well as project work must be substantiated with records duly signed by the Head of the Department in the Institution, where the candidate is posted.

Place of course and training

Malabar Cancer Centre, Thalassery. (Theory and practical)

Lecture and Practical classes

Regular clinical posting to pick up practical skill and practice techniques on medical radiological technology. Students should present seminars in various clinical subjects in medical radiological technology to attain presentation skill.

Annual intake

25 Seats.

Selection process:

Total seats in the colleges will be filled up by the Government from the list prepared by the Commissioner for Entrance Examinations (Kerala) on behalf of the Government in accordance with merit and reservation principles followed by Government from time to time.

Accommodation

Since Malabar Cancer Centre doesn't have Hostel Facility, students has to make their own arrangement for the same

Fee structure:

- The tuition fee for the proposed course may be as follows:- Course period is four year

Tuition Fee/Year
General – 50, 000/- Rupees per year

The detailed other fee for B.Sc. MRT is as noted below:

Special fees

Sl. No.	Item	Category of admission
		University seat - General
1	Library fee	1,000/-
2	Lab fee	1,000/-
3	Miscellaneous fee	1,000/-
4	Amenities fund	1,500/-
5	College Union fund	400/-
6	Union fund	80/-
7	GAIP	10/-
8	Identity Card	10/-
9	MIF	100/-
10	SAF	75/-
	Total	5,175/-

Caution deposit - 10,000/- (The caution deposit will be refunded after the completion of the course without interest after deducting the charges towards damages and loss sustained, if any, on the part of the student concerned)

Admission fee:- 3000/-

PTA fund:- 2,000/-

Recreation/Sports fee:- 1,000/-

Other Fees:- Prescribed by KUHS (if any)

The fees shall be subject to revision as per Government decision that shall be made from time to time.

Documents to be produced at the time of Admission

The selected Candidate must report on the prescribed date for admission at Administrative Office, MCC. He / She will have to produce the following documents and will have to remit the fees at the time of reporting.

- Admission memo
- Originals of all documents 10th, 12th, TC.
- Fitness certificate from a registered Doctor not less than the rank of a Government Civil Surgeon.
- Five passport size photographs.
- Transfer certificate from the institution last studied.
- Community and income certificate should be produced from Village Officer in case of socially and Educationally Backward Community.
- Candidates claiming reservation under Scheduled Caste/Scheduled Tribes quota shall obtain the caste/community certificate from a Tahsildar.
- Disability certificate: Certificate of disability from the District Medical Board, certifying the degree of percentage of disability issued not earlier than 3 months prior to submission of application. No document/certificate other than above will be accepted.
- Anti-ragging undertaking by both Student and Parent

Director
Malabar Cancer Centre