

M.S. Ramaiah University of Applied Sciences

New BEL Road, MSR Nagar, Bangalore – 560054



**RAMAIAH
UNIVERSITY**
OF APPLIED SCIENCES

PO, PSO & CO

Programme: MD in Radiation Oncology

Programme Code: 139

Programme Outcome (PO)

Programme Specific Outcome (PSO)

Course Outcomes (CO)

Shalini

Principal and Dean

M.S. Ramaiah Medical College and Hospital
M.S. Ramaiah University of Applied Sciences



Ramaiah Medical College (RMC)

Programme Outcomes

Post Graduate Programme: MD in Radiation Oncology

Programme objectives (PO) for MD Radiation Oncology Postgraduate students:

- PO1. Develop the knowledge, skills and attitude to be a competent Radiation Oncologist (C, P).
- PO2. Demonstrate a commitment to excellence and continuous professional development with integrity, compassion and sensitivity to patient care. (A)
- PO3. Acquire and develop the knowledge, skills and attitude required to be a competent and ethical researcher and teacher. (A, C, P)
- PO4. Be able to independently perform teletherapy and Brachytherapy procedures with a reasonable degree of professionalism and competence. (P)

Programme Specific Outcomes (PSOs)

Programme specific outcome (PSO) for MD in Radiation Oncology Postgraduate students

- PSO1 - Demonstrate the ability to diagnose and treat all cases of malignancies using updated guidelines in medical and Radiation Oncology with special ability to maintain interdisciplinary coordination. (C, A, P)
- PSO2- Demonstrate the ability to address all emotional issues in patients and family members in relation to diagnosis, therapy, terminal care and mortality related to malignancies. (C, A, P).
- PSO3 - Organise proper promotive and preventive care strategies in the community aimed at reducing the burden of care in malignancies (C, A, P).
- PSO4- Lead and participate in planning and execution of team work related to establishment and maintenance of infrastructure related to radiation therapy, conforming to the updated guidelines. (C, A, P)
- PSO5 - Plan and conduct research related to the topic(C)
- PSO6 - Demonstrate the ability to organise teaching / training sessions for students and health workers in topics related to cancer prevention and care. (P)

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Course Outcomes (COs)

Course Title & Code: Basic Principles in the practice of Radiation Oncology (MDC549A)

Subjects At the end of the course, the students should be able to:

- CO-1. Demonstrate comprehensive knowledge of applied anatomy, classification, histopathology, investigations and staging of various tumours. (C)
- CO-2. Demonstrate the understanding of various concepts of radiation physics and their application in the delivery of radiation. (C)
- CO-3. Demonstrate the understanding of radiobiological concepts behind the causation of radiation damage to tissues. (C)

Course Outcomes (COs)

Course Title & Code: Clinical Radiation Oncology (MDC550A)

Subjects At the end of the course, the students should be able to:

- CO-1. Demonstrate the role of radiation and its sequelae for skin, head and neck, nervous system and gastrointestinal cancers. (C,A,P)
- CO-2. Demonstrate the role of radiation and its sequelae for thoracic, breast, Genitourinary, lymphatic system, bone and pediatric cancers. (C,A,P)
- CO-3. Demonstrate the role of radiation and its sequelae for benign tumours. (C,A,P)

Course Outcomes (COs)

Course Title & Code: Allied Oncology Practices (MDC551A)

Subjects At the end of the course, the students should be able to:

- CO-1. Demonstrate the application of principles of surgical/systemic therapy in the treatment of cancer. (A,C,P)
- CO-2. Demonstrate comprehensive knowledge of advanced cancer, palliative care, pain management, best supportive care and end of life issues. (A,C,P)

Course Outcomes (COs)

Course Title & Code: Recent advances, Cancer Control Programmes and Research methodologies. (MDC552A)

Subjects At the end of the course, the students should be able to:

- CO-1. Apply newer advances in the comprehensive management of cancer.(C)
- CO-2. Demonstrate comprehensive knowledge of causation of cancer, its application in creating awareness, screening and early diagnosis. (C,A,P)
- CO-3. Apply legal aspects with respect to radiation treatment for cancers.(A,C)

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[Signature]

Registrar

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Course Outcomes (COs)

Course Title & Code: Thesis - Radiation Oncology (MDP513A)

Subjects At the end of the course, the students should be able to:

- CO-1. Describe the techniques of research, identify available literature and critically analyze the same. (C)



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