

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 Physiology

Programme Code: 128

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

Bangalore-560054

Ramaiah Medical College (RMC)

Programme Outcomes

Post Graduate Programme: MD in Physiology

Programme Outcomes (PO) for MD Physiology Postgraduate students should:

- PO1:** Be a competent Physiologist and have thorough knowledge of the body all the systems of the body including historical aspect, evolution, comparative physiology, mechanisms maintaining homeostasis, applied physiology and recent advances.(C)
- PO2:** Teach the basic physiological concepts of human body, pathophysiology of diseases and the physiological basis of management to undergraduate medical and paramedical students.(C)
- PO3:** Acquire skills in conducting and demonstrating the hematology practicals, human experiments, clinical examinations and experiments based on biophysical principles (P.C)
- PO4:** Be able to critically evaluate published journal literatures and be capable of conducting research independently, participate in academic events like conferences, workshops etc(C)

Programme Specific Outcomes (PSOs)

Programme specific outcome (PSO) for MD Physiology Postgraduate students:

- PSO1:** Teach competently the physiological concepts governing the maintenance of homeostasis in various organ systems to medical and paramedical courses.(C)
- PSO2:** Conduct the electro diagnostic tests like EEG, AFT, ECG etc and interpret the results for research and diagnostic needs.(P)
- PSO3:** Understand the physiological response of the body to yoga, high altitude and in sports and its application in research.(C)
- PSO4:** Conduct research, including collaborative research and publish the articles in indexed journals. (C,P)
- PSO5:** Function as an effective team member / leader of teaching and research team with good communication skills and ethical principles.(A)

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Course Outcomes (COs)

Course Title & Code: Basic Sciences as applied to Physiology (MDC505A)

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

- CO-1. Achieved comprehensive knowledge of cellular mechanisms, biopotentials, water and electrolyte balance, biostatistics and history of Physiology.(C,P)
- CO-2. Interacted effectively with other paraclinical, clinical and allied health sciences departments to develop integrated modules in basic sciences and teach competencies related to the same.(C,A,P)

Course Outcomes (COs)

Course Title & Code: Systemic Physiology -I (MDC506A)

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

- CO-1. Acquired the knowledge of Blood and Immunity, Cardiovascular System, Respiratory System, Gastro- Intestinal system and how Physiology can be effectively applied in diagnostic and therapeutic clinical settings (C,P)
- CO-2. Interacted and integrated with the allied departments for basic and advanced laboratory investigations. (C,P)
- CO-3. Be conversant with the skills in conducting and demonstrating the hematology practicals, human experiments, clinical examinations.
(A,P)

Course Outcomes (COs)

Course Title & Code: Systemic Physiology -II (MDC507A)

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

- CO-1. Acquired the knowledge of Nerve-Muscle Physiology, Endocrine Physiology, Nervous System, Special Senses, Reproductive Physiology and teach competencies related to the same. (C, P)
- CO-2. Conduct the electrodiagnostic tests, Interacted and integrated with the allied departments for basic and advanced laboratory investigations, interpret the results for research and diagnostic needs. (C, P)
- CO-3. Acquired the skills in conducting and demonstrating clinical examinations of central nervous and related systems.

Course Outcomes (COs)

Course Title & Code: Recent advances in Physiology (MDC508A)

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

- CO-1. Acquire knowledge of physiological responses of the body to yoga, high altitude, sports and



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- their application in research.(C,P)
- CO-2.** Be conversant with applied, integrated, clinical investigation tests, recent advances relevant to Physiology and Social responsibilities of physiologists. (C,A,P)
- CO-3.** Apply legal aspects with respect to radiation treatment for cancers.(A,C)

Course Outcomes (COs)

Course Title & Code: Thesis- Physiology (MDP502A)

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

- CO-1.** Participated actively in seminars/journal clubs, basic research methodology workshop and pedagogy to acquire skills for research, thesis writing and publication and understand the general principles of medical education (C,P)
- CO-2.** Gained the skills required to be an efficient leader, administrator, member of academic, research and health care team with adopting ethical principles.(C,A,P)



Registrar
M.S. Ramaiah University of Applied Sciences
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