

M.S. Ramaiah University of Applied Sciences

New BEL Road, MSR Nagar, Bangalore – 560054



**RAMAIAH
UNIVERSITY**
OF APPLIED SCIENCES

PO, PSO & CO

Programme: MS in General Surgery

Programme Code: 145

Programme Outcome (PO)

Programme Specific Outcome (PSO)

Course Outcomes (CO)

Shalini

Principal and Dean

M.S. Ramaiah Medical College and Hospital

Bangalore-560054



Ramaiah Medical College (RMC)

Programme Outcomes

Post Graduate Programme: MS in General Surgery

At the end of the program the postgraduate students should be:

- PO1. Develop the knowledge, skills and attitude to be a competent General Surgeon (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 diagnostic and surgical procedures applicable to his specialty with a reasonable degree of professionalism and competence. (P)

Programme Specific Outcomes (PSOs)

Programme specific outcome (PSO) for MS in General Surgery Postgraduate students

At the end of the Program, the students should be able

- PSO 1. Demonstrate adequate understanding of the anatomy and physiology and its clinical applications related to the speciality and to be able to assimilate this knowledge into Clinical practice. (C,P)
- PSO2. Demonstrate the ability to evaluate scientific/clinical information in General Surgery and critically analyze conflicting data and hypothesis. (C,P)
- PSO3. Practice his/her speciality efficiently and effectively, backed by scientific knowledge and skills with sufficient understanding of basic sciences, recent advances and clinical applications, keeping in mind the requirement of the patient, community and people at large. (A,C,P)
- PSO4. To acquire a strong clinical basis with sound knowledge base to develop the cognitive, psychomotor, research, promotive, preventive, curative and rehabilitative aspects of health and diseases in the specialty of General Surgery required to enable a postgraduate to undertake the independent practice of General Surgery at a specialist level. (A,C,P)
- PSO5. To acquire skills in teaching, research methodology, epidemiology, biostatistics, paper & poster preparation, writing research papers, thesis and participate in national health education programs. (C,P)

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PSO6. To teach students effectively by using appropriate learning resources, teaching methodology and to acquire skills of integrating General Surgery with other disciplines as and when needed. (C,P)

PSO7. To recognize continuous educational needs and update their knowledge regarding recent advances, latest diagnostics & therapeutic advancements, developments and medico-legal aspects in General Surgery. (A,C,P)

PSO8. The student should develop integrity, accountability, respect, compassion, honest work ethics and empathetic behaviour with patients, students and colleagues. (A,C)

Course Outcomes (COs)

Course Title & Code: Basic Sciences Applied to Surgery (MSC501A)

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

- CO-1.** The students should be conversant with the applied aspects of Anatomy, physiology and Biochemistry, pathophysiology of the diseases. Have knowledge of symptomatology, signs, rationale of investigations and their interpretation to further decide plan of management and surgery. (C, P)
- CO-2.** The student should have knowledge about basic principles of surgery, surgical instruments & equipment, preoperative preparation and post-operative care including medico legal aspects of surgery. (C)
- CO-3.** The student should demonstrate integrity, accountability, respect, compassion and dedicated patient care, commitment to excellence, continuous professional development and ethical principles relating to research conduct and publication as applicable to all the specific courses(A)
- CO-4.** Have knowledge of biomedical waste management and be familiar with appropriate disposal methods for each specimen, sample, reagents, instruments, autoclaving techniques, recycling of products and e-waste as applicable to the field of General surgery(C,P)

Course Outcomes (COs)

Course Title & Code: Principles and Practices of Surgery (MSC502A)

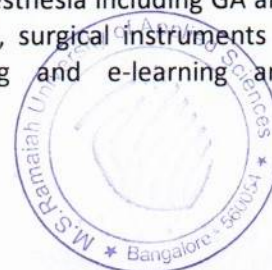
Subjects At the end of the course, the students should be able to:

- CO-1.** Have the knowledge of concept sepsis, sterilization, wound infection, use of antibiotics-resistance, nutrition, fluid electrolyte balance in surgery and wound healing (C)
- CO-2.** Student should be conversant with the clinical presentation, diagnosis and treatment of common diseases in surgery including preoperative preparation, intraoperative techniques , postoperative care and medico legal aspects of the same. (C,P)
- CO-3.** Students should have knowledge about Basic knowledge of Anaesthesia including GA and regional blocks , Prosthetic materials used in surgical practice, surgical instruments & devices- its uses and hazards,Telemedicine, teleproctoring and e-learning and Communication skills. (C,P)

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Course Outcomes (COs)

Course Title & Code: Principles and practice of operative surgery (MSC503A)

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

- CO-1. General Surgery as applicable to the common surgical conditions that are encountered in day to day practice (C.P)
- CO-2. Radiology, Imaging – computed tomography and magnetic resonance imaging, (MRI) and intervention radiology and angiography as related to general surgery . (C)
- CO-3. General Pathologic aspects such as wound healing and also pathology and Pathogenesis of common surgical conditions that are encountered in day to day practice. (A,C.P)
- CO-4. General Principles of trauma and trauma surgery(C.P)

Course Outcomes (COs)

Course Title & Code: Recent advances in Surgery (MSC504A)

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

- CO-1. To be upto date with the newer advances in the aetiopathogenesis, clinical presentation, investigative modalities and treatment of both surgical and non-surgical of the common surgical conditions that are encountered in day to day practice
- CO-2. To have a broad knowledge of the recent advances in general surgical practice
- CO-3. To be able to communicate to the patient pros and cons of the newer available modalities of treatment

Course Outcomes (COs)

Course Title & Code: THESIS- Surgery (MSP501A)

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

- CO-1. The student should be introduced to basic research methodology so that he/she can independently perform fundamental and applied research and he/she should independently write the thesis in accordance with the prescribed norms as per international standards (C,P)
- CO-2. The student should be able to demonstrate integrity, accountability, respect, compassion and dedicated patient care and commitment to excellence, continuous professional development and ethical principles relating to research and publication as applicable to all the specific courses. . (A, C.P)

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