

M.S. Ramaiah University of Applied Sciences

New BEL Road, MSR Nagar, Bangalore – 560054



**RAMAIAH
UNIVERSITY**
OF APPLIED SCIENCES

PO, PSO, PEO & CO

**Programme: B.Sc. (Hons) in Anesthesia and Operation Theatre
Technology**

Programme Code: 403

**Programme Outcome (PO)
Programme Specific Outcome (PSO)
Program Educational Objectives (PEO)
Course Outcomes (CO)**


Dean


Registrar
M.S. Ramaiah University of Applied Sciences
Bangalore - 560 054

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Faculty of Life and Allied Health Sciences (FLAHS)

Programme Name: B.Sc. (Hons) in Anesthesia and Operation Theatre Technology

Programme Outcomes (POs)

- PO1- Clinical care at Operation Theatre:** Provide quality patient care throughout the operative process and isconstantly on watchfulness for upholding of the sterile field
- PO2- Communication:** Use effective communication skills including listening skill to ensure any work done duringthe surgery is informed to Surgeon, Anaesthetist and other team members
- PO3- Team work:** Develop high value on effective understanding within the team, including transparency aboutaims, decisions, problems and mistakes
- PO4- Ethics:** Describe and apply ethics related to surgical cases, drug administration and situation
- PO5- Commitment to professional excellence:** Supervise the circumstance in the operating room and continuallymeasure the requirement of patient and surgical team
- PO6- Leadership:** Take a leadership role to coordinate, delegate and supervise to ensure every single process inoperation theatre is secure and flourishing as possible
- PO7- Social Accountability & Responsibility:** Demonstrate knowledge of the determinants of health at local,regional and national levels and respond to the population needs
- PO8- Lifelong Learning:** Describe and demonstrate use of new technologies and operate equipment used foranesthesia and surgery

Programme Specific Outcomes (POs)

At the end of the BSc (Hons) Anesthesia and Operation Theatre Technology Programme the graduate will be able to:

- PSO-1:** Apply knowledge of anaesthesia and surgical techniques to provide safe and effective care to the patients for achieving professional excellence.
- PSO-2:** Adapt to the technological advancement in operation theatres by upgrading to the latest practices in the field of operation theatre technology.
- PSO-3:** Demonstrate the leadership qualities and strive for the betterment of organization, environment and society.
- PSO-4:** Demonstrate an understanding of the importance of lifelong learning through professional development, practical training and specialized certifications.



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Programme Education Objectives

- PEO -1:** Knowledgeable and technically competent in anaesthesia & Surgery discipline in line with Operation Theatre requirements
- PEO -2:** Effective in communication and demonstrate good leadership quality in Health care facility.
- PEO -3:** Capable to solve technical problems arising in operation theatre & ICU and also during emergencies with ethics and moral values through sustainable approach
- PEO -4:** Committed to continuous improvement in skills and knowledge harnessing modern tools and technology used in anaesthesia and surgery.

Course Outcomes (COs)

Course Title & Code: General Anatomy (19AHG101A)

Upon completion of this course students will be able to:

- CO-1.** Describe the structure and functional organization of a basic human cell and the normal anatomical positions and planes of the body
- CO-2.** Explain the structure and functions of basic tissues
- CO-3.** Explain the components of the organ systems and its basic functions
- CO-4.** Identify the parts of a compound microscope and differentiate microscopy of basic tissues
- CO-5.** Demonstrate the parts and position of bones in the human body and early development of fetus
- CO-6.** Demonstrate the surface anatomy of structures and interpret data obtained from various imaging techniques.

Course Outcomes (COs)

Course Title & Code: General Physiology (19AHG102A)

Upon completion of this course students will be able to:

- CO-1.** Describe the functions of the organ systems in the body
- CO-2.** Explain the mechanisms for the execution of these functions for homeostasis through the secretions of chemical and humoral factors
- CO-3.** Explain the regulatory mechanisms in the control of blood pressure, urine formation maintenance of extracellular and intracellular volume
- CO-4.** Perform to assess the normal values and parameters of the bodily function indicators such as blood indices, blood gases
- CO-5.** Demonstrate the tests to assess the functional integrity of the respiratory and cardiovascular system
- CO-6.** Correlate the disease condition with physiological aspects of bodily functions


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Course Outcomes (COs)

Course Title & Code: CSSD (19OTT303A)

Upon completion of this course students will be able to:

- CO-1. Describe the basic principles of sterilization and disinfection
- CO-2. Compare and contrast different methods of sterilization
- CO-3. Explain the techniques of sterilization of special materials
- CO-4. Discuss the ways to prevent hazards of sterilization
- CO-5. Assist in performing disinfection of the theatre and instruments
- CO-6. Assist in operating various types of sterilizer

Course Outcomes (COs)

Course Title & Code: Basic Intensive Care (19OTT213A)

Upon completion of this course students will be able to:

- CO-1. Describe the basic principles, care and maintenance of various life supporting devices
- CO-2. Describe maintenance of asepsis of ICU including air conditioning
- CO-3. Explain types of airways and their usage
- CO-4. Explain care of semiconscious and unconscious patients in ICU
- CO-5. Discuss hemofiltration and hemodialysis and its management
- CO-6. Explain technique of monitoring vitals and management of complication

Course Outcomes (COs)

Course Title & Code: Basic Medical Procedure Techniques (22AOTTXXX)

Upon completion of this course students will be able to:

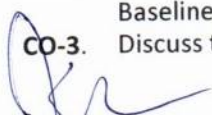
- CO-1. Describe the basic medical procedure performed in hospital/health care
- CO-2. Describe the equipments used for various medical procedure
- CO-3. Explain the techniques of various medical procedure
- CO-4. Setup trolley for various medical procedure
- CO-5. Assist anaesthetist or surgeon to perform various medical procedures

Course Outcomes (COs)

Course Title & Code: Project Management (22MCM202A)

Upon completion of this course students will be able to:

- CO-1. Explain the characteristics of projects, Operations and principles of Project Management
- CO-2. Discuss the Project Management Competency Elements as per PMA's Individual Competence Baseline Ver 4.0
- CO-3. Discuss the tools for Project Execution, Monitoring and control


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- CO-4. Apply the tools for project planning and Create a Project Management Plan covering Project Charter, Work Breakdown Structure, Project Organisation, Time Management Plan and Risk Management Plan

Course Outcomes (COs)

Course Title & Code: Direct Clinical Education (19OTT2310A)

Upon completion of this course students will be able to:

- CO-1. Prepare OT daily for case
- CO-2. Set up operation table, anesthetic equipment, gas cylinders and suction apparatus under supervision
- CO-3. Perform drug loading and set anesthesia trolley
- CO-4. Operate various sterilizers
- CO-5. Document various recordings in OT
- CO-6. Provide technical support

Course Outcomes (COs)

Course Title & Code: Specialised Surgery (22AOTTXXX)

Upon completion of this course students will be able to:

- CO-1. Describe the basic techniques for specialty surgical procedures including , monitoring techniques and equipment
- CO-2. Explain the positioning of the patient for specialty surgical procedures
- CO-3. Explain the anesthetic and surgical management of special surgical procedures
- CO-4. Explain the intraoperative and postoperative complications of general surgery

Course Outcomes (COs)

Course Title & Code: Anaesthesia for Specialised Surgery (22AOTTXXX)

Upon completion of this course students will be able to:

- CO-1. Describe the basic techniques for specialty surgical procedures including , monitoring techniques and equipment
- CO-2. Explain the positioning of the patient for specialty surgical procedures
- CO-3. Explain the anesthetic and surgical management of special surgical procedures
- CO-4. Explain the intraoperative and postoperative complications of general surgery

Course Outcomes (COs)

Course Title & Code: Direct Clinical Education (19OTT320A)

Upon completion of this course students will be able to:

- CO-1. Prepare OT daily for case
- CO-2. Set up operation table, anesthetic equipment, gas cylinders and suction apparatus under



- supervision
- CO-3. Perform drug loading and set anesthesia trolley
 - CO-4. Operate various sterilizers
 - CO-5. Document various recordings in OT
 - CO-6. Provide technical support

Course Outcomes (COs)

Course Title & Code: Internship

After undergoing this internship, student will be able to:

- CO-1. Demonstrate / assist in setting up of surgical trolleys
- CO-2. Demonstrate / assist in setting up of Anaesthesia trolley
- CO-3. Demonstrate / assist in monitoring, connections in Anaesthesia machine and ventilator
- CO-4. Demonstrate / assist in OT table, Stock checking.
- CO-5. Checks and assist in patient preparation in various specialties
- CO-6. Demonstrate / assist in instrument care, washing and CSSD technologies

Course Outcomes (COs)

Course Title & Code: Research Project

After undergoing this course students will be able to:

- CO-1. Refine the problem in Allied Health Science
- CO-2. Identify appropriate methodology to solve the problem
- CO-3. Propose solutions to the problem identified
- CO-4. Prepare a project report as per the specified guidelines
- CO-5. Presentation of the research finding in an appropriate forum

Course Outcomes (COs)

Course Title & Code: Internship

After undergoing this internship, student will be able to:

- CO-1. Demonstrate / assist in Laparoscopy/Endo surgical system set up
- CO-2. Demonstrate / assist in positioning especially after anaesthetizing patient.
- CO-3. Check and assist in patient preparation for different types of anaesthesia
- CO-4. Perform daily OT checking, before and after case setup and cleaning.
- CO-5. Demonstrate / assist in instrument care, setting up equipment according to different age groups and sizes.
- CO-6. Assist in indent orders and OT data management


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Course Outcomes (COs)

Course Title & Code: Research Project (19MRT401A)

Upon completion of this course students will be able to:

- CO-1. Refine the problem in Allied Health Science
- CO-2. Identify appropriate methodology to solve the problem
- CO-3. Propose solutions to the problem identified
- CO-4. Prepare a project report as per the specified guidelines
- CO-5. Presentation of the research finding in an appropriate forum


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