



MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University u/s 3 of UGC Act, 1956)

Grade 'A' Accredited by NAAC

Sector-01, Kamothe, Navi Mumbai -410 209

Tel 022-27432471, 022-27432994, Fax 022 -27431094

E-mail: registrar@mgmuhs.com; Website :www.mgmuhs.com

COMPETENCY BASED MEDICAL EDUCATION (CBME)

(with effect from 2019-2020 Batches)

Curriculum for Third M.B.B.S – Part II General Surgery

Approved as per AC-41/2021, Dated 27/08/2021

Amended History

1. Approved as per AC-41/2021, Resolution No. 5.5, Dated 27/08/2021.

CURRICULUM PHASE 3 MBBS**UG Curriculum for Large Group teaching. Dept. of Surgery (25 hours)**

| Topic Code | Topic | No of Hrs | Integration | Method of Teaching |
|------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|--------------------|
| | Metabolic response to injury | | | |
| SU1.2 | Describe the factors that affect the metabolic response to injury | 1 | biochemistry | LGT |
| | shock | | | |
| SU2.2 | Describe the clinical features of shock and its appropriate management | 2 | | LGT |
| | burns | | | |
| SU4.2 | Describe clinical features, diagnose type and extend of burns and plan appropriate management | 2 | | LGT |
| | Anaesthesia and pain management | | | |
| SU11.2 | Enumerate the principles of general, regional, and local Anaesthesia. | 2 | Anaesthesia | LGT |
| SU11.4 | Enumerate the indications and principles of day care General Surgery | 1 | | LGT |
| | Nutrition and fluid therapy | | | |
| SU12.1 | Enumerate the causes and consequences of malnutrition in the surgical patient | 1 | Physiology | LGT |
| SU 12.2 | Describe and discuss the methods of estimation and replacement of fluid and electrolyte requirements in the surgical patient | 1 | Physiology | LGT |
| | Transplantation | | | |
| SU 13.1 | Describe the immunological basis of organ transplantation. | 1 | Microbiology | LGT |
| | Minimally Invasive General Surgery | | | |
| SU 16.1 | Minimally invasive General surgery: Describe indications, advantages and disadvantages of minimally invasive General surgery | 1 | | LGT |
| | Trauma | | | |
| SU 17.4, | Describe the pathophysiology and mechanism of head injuries | 1 | | LGT |
| SU 17.5, | Describe clinical features for neurological assessment and GCS in head injuries | 1 | | LGT |
| SU17.6 | Chose appropriate investigations and discuss the principles of management of head injuries | 2 | | LGT |
| SU17.7 | Describe the clinical features of soft tissue injuries. Choose appropriate investigations and discuss the principles of management. | 2 | | LGT |

| | | | | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------|---|---------|-----|
| SU17.8 | Describe the pathophysiology of chest injuries. | 1 | | LGT |
| SU 17.9 | Describe the clinical features and principles of management of chest injuries. | 1 | | LGT |
| | Skin and subcutaneous tissue | | | |
| SU 18.2 | Classify skin tumors. Differentiate different skin tumors and discuss their management. | 1 | | LGT |
| | Developmental anomalies of Face, Mouth Jaws | | | |
| SU 19.1, SU 19.2 | Describe the etiology and classification of cleft lip and palate Describe the Principles of reconstruction of cleft lip and palate | 2 | Anatomy | LGT |
| | Oropharyngeal Cancer | | | |
| SU 20.1 | Describe etiopathogenesis of oral cancer symptoms and signs of oropharyngeal cancer | 1 | ENT | LGT |
| SU20.2 | Enumerate the appropriate investigations and discuss the Principles of treatment. | 1 | | LGT |

**UG Curriculum for Small Group Teaching (35 hours)
Department of Surgery**

| Topic Code | Topic | No of Hrs | Integration | Method of Teaching |
|------------|-------------------------------------------------------------------------------------------------------------------------|-----------|-------------|--------------------|
| | Metabolic Response to Injury | | | |
| SU 1.3 | Describe basic concepts of peri-operative care | 1 | | SGD |
| | Shock | | | |
| SU2.3 | Communicate and counsel patients and families about the treatment and prognosis of shock demonstrating empathy and care | 1 | AETCOM | DOAP |
| | Blood and blood components | | | |
| SU3.3 | Counsel patients and family /friends for blood transfusion and blood donation. | 1 | | DOAP |
| | Burns | | | |
| SU.4.4 | Communicate and counsel patients and families on the outcome and rehabilitation demonstrating empathy and care. | 2 | | SGD |
| | Wound Healing and Wound Care | | | |
| SU.5.2 | Elicit, document and present a history in a patient presenting with wounds. | 1 | | SGD |
| SU.5.3 | Differentiate the various types of wounds, plan and observe management of wounds. | 1 | | SGD |
| SU5.4 | Discuss medico legal aspects of wounds | 1 | | |
| | Surgical infections | | | |
| SU6.2 | Enumerate Prophylactic and therapeutic antibiotics. Plan appropriate management. | 1 | | |
| | | | | |

| | | | | |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------|------|
| | Investigations of Surgical Patient | | | |
| SU 9.1 | Choose appropriate biochemical, microbiological, pathological, imaging investigations and interpret the investigative data in a surgical patient | 2 | Biochemistry Microbiology Pathology | SGD |
| SU9.3 | Communicate the results of surgical investigations and counsel the patient appropriately | 1 | | DOAP |
| | Pre, Intra and post- operative management | | | |
| SU 10.1 | Describe the principles of preoperative management of common surgical procedures. | 2 | | SGD |
| | Anaesthesia and pain management | | | |
| SU 11.1 | Describe principles of Preoperative assessment. | 2 | Anaesthesia | SGD |
| SU 11.5 | Describe principles of providing post –operative pain relief and management of chronic pain | 2 | Anaesthesia | SGD |
| SU 11.6 | Describe principles of safe General Surgery | 1 | | SGD |
| | Transplantation | | | |
| SU 13.3 | Discuss the legal and ethical issues concerning organ donation | 1 | AETCOM | SGD |
| SU13.4 | Counsel patients and relatives on organ donation in a simulated environment | 1 | AETCOM | DOAP |
| | Basic Surgical Skills | | | |
| SU 14.2 | Describe Surgical approaches, incisions and the use of appropriate instruments in General Surgery | 2 | | SGD |
| SU14.3 | Describe the materials and methods used for surgical wound closure and anastomosis (sutures, knots and needles) | 2 | | |
| | Biohazard Disposal | | | |
| SU 15.1 | Describe classification of hospital waste and appropriate methods of disposal | 2 | Microbiology | SGD |
| | Trauma | | | |
| SU 17.1 | Describe the Principles of FIRST AID | 2 | | SGD |
| SU 17.3 | Describe the Principles in management of mass casualties | 2 | | SGD |
| | Disorders of Salivary Glands | | | |
| SU. 21.2 | Enumerate the appropriate investigations and describe the Principles of treatment of disorders of salivary glands. | 2 | | SGD |
| | Topic:Endocrine General Surgery :Thyroid and parathyroid | | | |
| SU22.1 | Describe the applied anatomy and physiology of thyroid | 1 | | SGD |
| SU22.2 | Describe the etiopathogenesis of thyroidal swellings | 1 | | SGD |
| | SDL TOPICS(5 hours) | | | |
| | Ethics | | | |
| SU 8.2 | Demonstrate Professionalism and empathy to the patient undergoing General Surgery | 1 | FMT AETCOM | SDL |
| | Skin and Subcutaneous Tissue | | | |
| SU 18.3 | Describe and demonstrate the clinical examination of surgical patient including swelling and order relevant investigation for diagnosis. Describe and discuss appropriate treatment plan. | 1 1 | | SDL |

| | Disorders of Salivary Glands | | | |
|---------|-------------------------------------------------------------------------------------------------------------------------|------------|--|-----|
| SU.21.1 | Describe surgical anatomy of the salivary glands, pathology clinical presentation of disorders of salivary glands | 1 1 | | SDL |

Internal Examination & Assessment Format as per CBME & GME 2019

| Internal Examination Format – General Surgery | | | |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------|
| Sr. No | Particular | Theory | Practical |
| Phase II (3rd& 4th Sem.) | | | |
| 1 | Phase II - Term Ending examination (Paper I) | 50 | NA |
| 2 | Post ending Examination – Surgery | 10 | 50 |
| 3 | Post ending Examination – Orthopaedics | 10 | 50 |
| 4 | Post ending Examination – Radiology | 10 | 50 |
| Phase III (Part – I) (Vth Sem) | | | |
| 1 | Phase III - Term Ending examination (Paper I) | 50 | NA |
| 2 | Post ending Examination – Surgery | 10 | 50 |
| 3 | Post ending Examination – Anaesthesia | 10 | 50 |
| 4 | Post ending Examination – Orthopaedics | 10 | 50 |
| Phase III (Part-II) (VII Sem) | | | |
| 11 | Phase III - Term examination (Paper I) | 100 | NA |
| 12 | Phase III - Prelim examination (Paper I & II) (25% Marks for Allied) | 200 | 200 |
| 13 | Post ending Examination – Surgery | 10 | 50 |
| 14 | Post ending Examination – Orthopaedics | 10 | 50 |
| Total Internal Examination Marks | | 480 | 600 |
| Internal Assessment Calculation | | | |
| Sr. No | Particular | Theory | Practical |
| 1 | All internal examinations including preliminary examination (Theory And Practical) | 170 | 170 |
| 2 | Logbook Assessment (SDL, AETCOM and Logbook, competencies Etc.) | 30 (15+5+5+5) | 30 (15+5+5+5) |
| Total Internal Assessment Marks | | 200 | 200 |
| 480 Theory Internal Examination marks reduced to 170 marks | | 600 Practical Internal Examination marks reduced to 170 marks | |

University Question Paper Format for General Surgery

Paper: I**Marks: 100****Time: 03 Hours (30 Min for MCQ)****Section A**

Multiple Choice Questions (01 MCQ = 1 Mark) 20 Marks

Section B

Short Answer Questions (05 out of 06) 25 Marks

Note: 01 Short Note Question from AETCOM

Long Answer Questions (01 Out of 02) 15 Marks

Section C

Short Answer Questions (05 out of 06) 25 Marks

Long Answer Questions (01 Out of 02) 15 Marks

Paper: II**Marks: 100****Time: 03 Hours (30 Min for MCQ)****Section A**

Multiple Choice Questions (01 MCQ = 1 Mark) 20 Marks

Note: 10 marks MCQ will be from Allied Subjects**Section B**

Short Answer Questions (05 out of 06) 25 Marks

Note: 01 Short Note Question from AETCOM

Long Answer Questions (01 Out of 02) 15 Marks

Section C**Note: All questions in Section C will be from Allied Subjects**

Short Answer Questions (05 out of 06) 25 Marks

(All Allied subjects including orthopedics)

Long Answer Questions (01 Out of 02) 15 Marks

(Orthopedics)

Phase II & Phase part I Term Ending Examination Question Paper Format for General

Surgery

Marks: 50

Time: 03 Hours (20 Min for MCQ)

Section A

Multiple Choice Questions (01 MCQ = 1 Mark) 10 Marks

Section B

Short Answer Questions (05 out of 06) 25 Marks

Note: 01 Short Note Question from AETCOM

Long Answer Questions (01 Out of 02) 15 Marks

Phase III part II Term Ending Examination Question Paper Format for General Surgery

Paper: I

Marks: 100

Time: 03 Hours (30 Min for MCQ)

Section A

Multiple Choice Questions (01 MCQ = 1 Mark) 20 Marks

Note: 5 marks MCQ will be from Allied Subjects

Section B

Short Answer Questions (05 out of 06) 25 Marks

Note: 01 Short Note Question from AETCOM

Long Answer Questions (02 Out of 03) 30 Marks

Section C

Note: All questions in Section C will be from Allied Subjects

Short Answer Questions (05 out of 06) 25 Marks

(All Allied subjects including orthopedics)



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