

# UNIVERSITY OF JAMMU

(NAAC ACCREDITED A + GRADE UNIVERSITY)  
Baba Sahib Ambedkar Road, Jammu-180006 (J&K)

## NOTIFICATION

(22/Nov/Adp /65)

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Competent Bodies, has been pleased to authorize the adoption of Competency based UG Curriculum & Scheme of **Phase-III (3<sup>rd</sup> Prof. Part II) of Bachelor of Medicine and Bachelor of Surgery (MBBS)** courses applicable for the Batch 2019-2020 onwards for the Examinations to be held in the year 2023-24, 2024-25 and 2025-26 as given in the ANNEXURE.

Pediatrics	(Annexure-I, Page 1-18)
Medicine	(Annexure-III, Page 01-42)
Surgery	(Annexure-II, Page 1-19)
Obst. & Gynae	(Annexure-IV, Page 01-20)

Sd/-  
Dean Academic Affairs

No. F.Acd/III/22/9390- 9396

Dated: 07/11/2022

Copy for information & necessary action to:-

1. Dean Faculty of Medical Sciences
2. Principal, Govt. Medical College, Jammu/ASCOMS, Sidhra, Jammu
3. C.A to the Controller of Examinations
4. Deputy/Assistant Registrar (Exams/Confidential)
5. Incharge University Website

*Sumitasharma*  
Dy. Registrar (Academic Affairs)  
7/11/22  
7/11/22  
7/11/22



## COURSE CONTENT

TITLE: PEDIATRICS (Theory & Practical/Clinical)

Prof/Phase-III Part-II to be held in the year 2023-24, 2024-25 & 2025-26

Course: Prof/Phase-III Part-II

Title: Pediatrics

Course No. Paper Part-I MBPAED0002, Paper Part-II MBPAED0002

Duration: 03 Hours

Maximum Marks: 200

Theory (Paper Part-I: 50 Marks)

(Paper Part-II: 50 Marks)

Practical/Clinical+Viva: Marks-100

## Annexure: I

**Based on National Medical Commissions (NMC) Competency Based  
UG Curriculum for the Indian Medical Graduate, 2019 (Vol.: II, Page: 150-202)**

### **TOTAL TEACHING HOURS: 130 + 174 (Clinical Posting)**

Teaching Methodology

a. Integrated Lectures (Hours)	:	40
b. Small Group Teaching/Tutorials/Seminars (Hours)	:	65
c. Self Directed Learning (Hours)	:	15
d. AETCOM (Hours)	:	10
e. Clinical Posting (Hours)	:	174
<b>Total</b>	:	<b>304 Hours</b>

### **THEORY SYLLABUS (For Theory paper Part-I) Maximum Marks-50**

#### **I. Normal Growth and Development**

1. PE1.1 Define the terminologies Growth and development and discuss the factors affecting normal growth and development
2. PE1.2 Discuss and describe the patterns of growth in infants, children and adolescents
3. PE1.3 Discuss and describe the methods of assessment of growth including use of WHO and Indian national standards. Enumerate the parameters used for assessment of physical growth in infants, children and adolescents
4. PE1.4 Perform Anthropometric measurements, document in growth charts and interpret
5. PE1.5 Define development and discuss the normal developmental mile stones with respect to motor, behaviour, social, adaptive and language
6. PE1.6 Discuss the methods of assessment of development

#### **II. Common problems related to Growth**

1. PE2.1 Discuss the etio-pathogenesis, clinical features and management of a child who fails to thrive
2. PE2.4 Discuss the etio-pathogenesis, clinical features and management of a child with short stature
3. PE2.6 Enumerate the referral criteri Enumerate the referral criteria for growth related problems for growth related problems

#### **III. Common problems related to Development -1 (Developmental delay , Cerebral palsy)**

1. PE3.1 Define, enumerate and discuss the causes of developmental delay and disability including intellectual disability in children
2. PE3.2 Discuss the approach to a child with developmental delay
3. PE3.5 Discuss the role of the child developmental unit in management of developmental delay

**Dr. Ghanshyam Saini**  
Professor & Head  
Post Graduate



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4. PE3.6 Discuss the referral criteria for children with developmental delay
5. PE3.8 Discuss the etio-pathogenesis, clinical presentation and multidisciplinary approach in the management of Cerebral palsy

#### IV. Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities, Autism, ADHD)

1. PE4.1 Discuss the causes and approach to a child with scholastic backwardness
2. PE4.2 Discuss the etiology, clinical features, diagnosis and management
3. PE4.3 Discuss the etiology, clinical features, diagnosis and management of a child with Attention Deficit Hyperactivity Disorder (ADHD)
4. PE4.4 Discuss the etiology, clinical features, diagnosis and management of a child with Autism

#### V. Common problems related to behavior

1. PE5.1 Describe the clinical features, diagnosis and management of thumb sucking
2. PE5.2 Describe the clinical features, diagnosis and management of Feeding problems
3. PE5.3 Describe the clinical features, diagnosis and management of nail biting
4. PE5.4 Describe the clinical features, diagnosis and management of Breath Holding spells
5. PE5.5 Describe the clinical features, diagnosis and management of temper tantrums
6. PE5.6 Describe the clinical features, diagnosis and management of Pica
7. PE5.7 Describe the clinical features, diagnosis and management of Fussy infant.
8. PE5.8 Discuss the etiology, clinical features and management of Enuresis
9. PE5.9 Discuss the etiology, clinical features and management of Encopresis

#### VI. Adolescent Health & common problems related to Adolescent Health

1. PE6.1 Define Adolescence and stages of adolescence
2. PE6.2 Describe the physical, physiological and psychological changes during adolescence (Puberty)
3. PE6.3 Discuss the general health problems during adolescence
4. PE6.4 Describe adolescent sexuality and common problems related to it
5. PE6.5 Explain the Adolescent Nutrition and common nutritional problems
6. PE6.6 Discuss the common Adolescent eating disorders (Anorexia Nervosa, Bulimia)
7. PE6.7 Describe the common mental health problems during adolescence
8. PE6.10 Discuss the objectives and functions of AFHS (Adolescent Friendly Health Services) and the referral criteria
9. PE6.12 Enumerate the importance of obesity and other NCD in adolescents
10. PE6.13 Enumerate the prevalence and the importance of recognition of sexual drug abuse in adolescents and children

#### VII. To promote and support optimal Breast feeding for Infants

1. PE7.3 Describe the composition and types of breast milk and discuss the differences between cow's milk and Human milk

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2. PE7.4 Discuss the advantages of breast milk
3. PE7.6 Enumerate the baby friendly hospital initiatives

### VIII. Complementary Feeding

1. PE8.1 Define the term Complementary Feeding
2. PE8.2 Discuss the principles, the initiation, attributes, frequency, techniques and hygiene related to Complementary Feeding including IYCF

### IX. Normal nutrition, assessment and monitoring

1. PE9.1 Describe the age related nutritional needs of infants, children and adolescents including micronutrients and vitamins
2. PE9.2 Describe the tools and methods for assessment and classification of nutritional status of infants, children and adolescents

### X. Provide nutritional support, assessment and monitoring for common nutritional problems

1. PE10.1 Define and describe the etio pathogenesis, classify including WHO classification, clinical features, complication and management of Severe Acute Malnourishment (SAM) and Moderate Acute Malnutrition (MAM)
2. PE10.2 Outline the clinical approach to a child with SAM and MAM

### XI. Obesity in children

1. PE11.1 Describe the common etiology, clinical features and management of obesity in children
2. PE11.2 Discuss the risk approach for obesity and discuss the prevention strategies

### XII. Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)

1. PE12.1 Discuss the RDA, dietary sources of Vitamin A and their role in Health and disease
2. PE12.2 Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin A
3. PE12.3 Identify the clinical features of dietary deficiency / excess of Vitamin
4. PE12.4 Diagnose patients with Vitamin A deficiency, classify and plan management
5. PE12.5 Discuss the Vitamin A prophylaxis program and their recommendations
6. PE12.6 Discuss the RDA, dietary sources of Vitamin D and their role in health and disease
7. PE12.7 Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin D (Rickets and Hypervitaminosis D)
8. PE12.8 Identify the clinical features of dietary deficiency of Vitamin D Identify the clinical features of dietary deficiency of Vitamin D
9. PE12.9 Assess patients with Vitamin D deficiency, diagnose, classify and plan management
10. PE12.10 Discuss the role of screening for Vitamin D deficiency
11. PE12.11 Discuss the RDA, dietary sources of Vitamin E and their role in health and disease
12. PE12.12 Describe the causes, clinical features, diagnosis and management of deficiency of Vitamin E
13. PE12.13 Discuss the RDA, dietary sources of Vitamin K and their role in health and disease
14. PE12.14 Describe the causes clinical features diagnosis management and Describe the causes, clinical features, diagnosis management and prevention of deficiency of Vitamin K

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Professor  
Post Graduate



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15. PE12.15 Discuss the RDA, dietary sources of Vitamin B and their role in health and disease
16. PE12.16 Describe the causes, clinical features, diagnosis and management of deficiency of B complex Vitamins
17. PE12.17 Identify the clinical features of Vitamin B complex deficiency
18. PE12.18 Diagnose patients with Vitamin B complex deficiency and plan management
19. PE12.19 Discuss the RDA, dietary sources of Vitamin C and their role in Health and disease
20. PE12.20 Describe the causes, clinical features, diagnosis and management of deficiency of Vitamin C (scurvy)
21. PE12.21 Identify the clinical features of Vitamin C deficiency

### XIII. Micronutrients in Health and disease -2: Iron, Iodine, Calcium, Magnesium

1. PE13.1 Discuss the RDA, dietary sources of Iron and their role in health and disease
2. PE13.2 Describe the causes, diagnosis and management of Fe deficiency
3. PE13.3 Identify the clinical features of dietary deficiency of Iron and make a diagnosis
4. PE13.6 Discuss the National anaemia control program and its recommendations
5. PE13.7 Discuss the RDA, dietary sources of Iodine and their role in Health and disease
6. PE13.8 Describe the causes, diagnosis and management of deficiency of Iodine
7. PE13.9 Identify the clinical features of Iodine deficiency disorders
8. PE13.10 Discuss the National Goiter Control program and their recommendations
9. PE13.11 Discuss the RDA, dietary sources of Calcium and their role in health and disease
10. PE13.12 Describe the causes, clinical features, diagnosis and management of Ca Deficiency
11. PE13.13 Discuss the RDA, dietary sources of Magnesium and their role in health and disease
12. PE13.14 Describe the causes, clinical features, diagnosis and management of Magnesium Deficiency

### XIV. Toxic elements and free radicals and oxygen toxicity

1. PE14.1 Discuss the risk factors, clinical features, diagnosis and management of Lead Poisoning
2. PE14.2 Discuss the risk factors, clinical features, diagnosis and management of Kerosene ingestion
3. PE14.3 Discuss the risk factors, clinical features, diagnosis and management of Organophosphorous poisoning
4. PE14.4 Discuss the risk factors, clinical features, diagnosis and management of paracetamol poisoning
5. PE14.5 Discuss the risk factors, clinical features, diagnosis and management of Oxygen toxicity

### XV. Fluid and electrolyte balance

1. PE15.1 Discuss the fluid and electrolyte requirement in health and disease
2. PE15.2 Discuss the clinical features and complications of fluid and electrolyte imbalance and outline the management
3. PE15.3 Calculate the fluid and electrolyte requirement in health

### XVI. Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline

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1. PE16.1 Explain the components of Integrated Management of Neonatal and Childhood Illnesses (IMNCI) guidelines and method of Risk stratification
2. PE16.2 Assess children 2 to 5 years using IMNCI guidelines and Stratify Risk

### XVII. The National Health programs, NHM

1. PE17.1 State the vision and outline the goals, strategies and plan of action of NHM and other important national programs pertaining to maternal and child health including RMNCH A+, RBSK, RKSK, JSSK mission Indradhanush and ICDS
2. PE17.2 Analyse the outcomes and appraise the monitoring and evaluation of NHM

### XVIII. The National Health Programs: RCH

1. PE18.1 List and explain the components, plan, outcome of Reproductive Child Health (RCH) program and appraise its monitoring and evaluation
2. PE18.2 Explain preventive interventions for child survival and safe motherhood

### XIX. National Programs, RCH - Universal Immunizations program

1. PE19.1 Explain the components of the Universal Immunization Program and the National Immunization Program
2. PE19.2 Explain the epidemiology of Vaccine preventable diseases
3. PE19.3 Vaccine description with regard to classification of vaccines, strain used, dose, route, schedule, risks, benefits and side effects, indications and contraindications
4. PE19.4 Define cold chain and discuss the methods of safe storage and handling of vaccines
5. PE19.5 Discuss immunization in special situations – HIV positive children, immunodeficiency, pre-term, organ transplants, those who received blood and blood products, splenectomised children, adolescents, travelers
6. PE19.9 Describe the components of safe vaccine practice – Patient education/ counselling; adverse events following immunization, safe injection practices, documentation and Medico-legal implications
7. PE19.16 Enumerate available newer vaccines and their indications including pentavalent pneumococcal, rotavirus, JE, typhoid IPV & HPV

## (For Theory paper Part-II) Maximum Marks-50

### XX. Care of the Normal New born, and High risk New born

1. PE20.1 Define the common neonatal nomenclatures including the classification and describe the characteristics of a Normal Term Neonate and High Risk Neonates
2. PE20.7 Discuss the etiology, clinical features and management of Birth asphyxia
3. PE20.8 Discuss the etiology, clinical features and management of respiratory distress in New born including meconium aspiration and i h fb
4. PE20.9 Discuss the etiology, clinical features and management of Birth injuries
5. PE20.10 Discuss the etiology, clinical features and management of Hemorrhagic disease of New born

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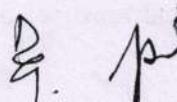
6. PE20.11 Discuss the clinical characteristics, complications and management of Low birth weight (preterm and Small for gestation)
7. PE20.12 Discuss the temperature regulation in neonates, clinical features and management of Neonatal Hypothermia
8. PE20.13 Discuss the temperature regulation in neonates, clinical features and management of Neonatal Hypoglycemia
9. PE20.14 Discuss the etiology, clinical features and management of Neonatal hypocalcemia
10. PE20.15 Discuss the etiology, clinical features and management of Neonatal seizures
11. PE20.16 Discuss the etiology, clinical features and management of Neonatal Sepsis
12. PE20.17 Discuss the etiology, clinical features and management of Perinatal infections
13. PE20.20 Identify clinical presentations of common surgical conditions in the new born including TEF, esophageal atresia, anal atresia, cleft lip and palate, congenital diaphragmatic hernia and causes of acute abdomen

### XXI. Genito-Urinary system

1. PE21.1 Enumerate the etio-pathogenesis, clinical features, complications and management of Urinary Tract infection in children
2. PE21.2 Enumerate the etio-pathogenesis, clinical features, complications and management of acute post-streptococcal Glomerular Nephritis in children
3. PE21.3 Discuss the approach and referral criteria to a child with Proteinuria
4. PE21.4 Discuss the approach and referral criteria to a child with Hematuria
5. PE21.5 Enumerate the etio-pathogenesis, clinical features, complications and management of Acute Renal Failure in children
6. PE21.6 Enumerate the etio-pathogenesis, clinical features, complications and management of Chronic Renal Failure in Children
7. PE21.7 Enumerate the etio-pathogenesis, clinical features, complications and management of Wilms Tumor
8. PE21.14 Recognize common surgical conditions of the abdomen and genitourinary system and enumerate the indications for referral including acute and subacute intestinal obstruction, appendicitis, pancreatitis, perforation intussusception, Phimosis, undescended testis, Chordee, hypospadias, Torsion testis, hernia Hydrocele, Vulval Synechiae
9. PE21.15 Discuss and enumerate the referral criteria for children with genitourinary disorder
10. PE21.17 Describe the etiopathogenesis, grading, clinical features and management of hypertension in children

### XXII. Approach to and recognition of a child with possible Rheumatologic problem

1. PE22.1 Enumerate the common Rheumatological problems in children. Discuss the clinical approach to recognition and referral of a child with Rheumatological problem
2. PE22.3 Describe the diagnosis and management of common vasculitic disorders including Henoch Schonlein Purpura, Kawasaki Disease, SLE, JIA

  
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### XXIII. Cardiovascular system- Heart Diseases

1. PE23.1 Discuss the Hemodynamic changes, clinical presentation, complications and management of Acyanotic Heart Diseases –VSD, ASD and PDA
2. PE23.2 Discuss the Hemodynamic changes, clinical presentation, complications and management of Cyanotic Heart Diseases – Fallot's Physiology
3. PE23.3 Discuss the etio-pathogenesis, clinical presentation and management of cardiac failure in infant and children
4. PE23.4 Discuss the etio-pathogenesis, clinical presentation and management of Acute Rheumatic Fever in children
5. PE23.5 Discuss the clinical features, complications, diagnosis, management and prevention of Acute Rheumatic Fever
6. PE23.6 Discuss the etio-pathogenesis, clinical features and management of Infective endocarditis in children
7. PE23.11 Develop a treatment plan and prescribe appropriate drugs including fluids in cardiac diseases, anti -failure drugs, and inotropic agents
8. PE23.16 Discuss the indications and limitations of Cardiac catheterization
9. PE23.17 Enumerate some common cardiac surgeries like BT shunt, Potts and Waterston's and corrective surgeries

### XXIV. Diarrhoeal diseases and Dehydration

1. PE24.1 Discuss the etio-pathogenesis, classification, clinical presentation and management of diarrheal diseases in children
2. PE24.2 Discuss the classification and clinical presentation of various types of diarrheal dehydration
3. PE24.5 Discuss the role of antibiotics, antispasmodics, anti-secretory drugs, probiotics, anti-emetics in acute diarrheal diseases
4. PE24.6 Discuss the causes, clinical presentation and management of persistent diarrhoea in children
5. PE24.7 Discuss the causes, clinical presentation and management of chronic diarrhoea in children
6. PE24.8 Discuss the causes, clinical presentation and management of dysentery in children

### XXV. Malabsorption

1. PE25.1 Discuss the etio-pathogenesis, clinical presentation and management of Malabsorption in Children and its causes including celiac disease

### XXVI. Acute and chronic liver disorders

1. PE26.1 Discuss the etio-pathogenesis, clinical features and management of acute hepatitis in children
2. PE26.2 Discuss the etio-pathogenesis, clinical features and management of Fulminant Hepatic Failure in children

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3. PE26.3 Discuss the etio-pathogenesis, clinical features and management of chronic liver diseases in children
4. PE26.4 Discuss the etio-pathogenesis, clinical features and management of Portal Hypertension in children
5. PE26.11 Enumerate the indications for Upper GI endoscopy

#### XXVII. **Pediatric Emergencies – Common Pediatric Emergencies**

1. PE27.1 List the common causes of morbidity and mortality in the under five children
2. PE27.2 Describe the etio-pathogenesis, clinical approach and management of cardiorespiratory arrest in children
3. PE27.3 Describe the etio-pathogenesis of respiratory distress in children
4. PE27.4 Describe the clinical approach and management of respiratory distress in children
5. PE27.5 Describe the etio-pathogenesis, clinical approach and management of Shock in children
6. PE27.6 Describe the etio-pathogenesis, clinical approach and management of Status epilepticus
7. PE27.7 Describe the etio-pathogenesis, clinical approach and management of an unconscious child
8. PE27.8 Discuss the common types, clinical presentations and management of poisoning in children
9. PE27.24 Monitoring and maintaining temperature: define hypothermia. Describe the clinical features, complications and management of Hypothermia
10. PE.27.29 Discuss the common causes, clinical presentation, medico-legal implications of abuse

#### XXVIII. **Respiratory system**

1. PE28.6 Discuss the etio-pathogenesis, clinical features and management of Acute laryngo-trachea-bronchitis
2. PE28.7 Discuss the etiology, clinical features and management of Stridor in children
3. PE28.8 Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children
4. PE28.18 Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of lower respiratory infections including bronchiolitis, wheeze associated LRTI Pneumonia and empyema
5. PE28.19 Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of asthma in children

#### XXIX. **Anemia and other Hemato-oncologic disorders in children**

1. PE29.1 Discuss the etio-pathogenesis, clinical features, classification and approach to a child with anaemia K
2. PE29.2 Discuss the etio-pathogenesis, clinical features and management of Iron Deficiency anaemia

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3. PE29.3 Discuss the etiopathogenesis, clinical features and management of VIT B12, Folate deficiency anaemia
4. PE29.4 Discuss the etio-pathogenesis, clinical features and management of Hemolytic anemia, Thalassemia Major, Sick cell anaemia, Hereditary spherocytosis, Auto-immune hemolytic anaemia and hemolytic uremic syndrome
5. PE29.5 Discuss the National Anaemia Control Program
6. PE29.6 Discuss the cause of thrombocytopenia in children: describe the clinical features and management of Idiopathic Thrombocytopenic Purpura (ITP)
7. PE29.7 Discuss the etiology, classification, pathogenesis and clinical features of Hemophilia in children
8. PE29.8 Discuss the etiology, clinical presentation and management of Acute Lymphoblastic Leukemia in children
9. PE29.9 Discuss the etiology, clinical presentation and management of lymphoma in children
10. PE29.18 Enumerate the referral criteria for Hematological conditions
11. PE29.20 Enumerate the indications for splenectomy and precautions

### XXX. Systemic Pediatrics-Central Nervous system

1. PE30.1 Discuss the etio-pathogenesis, clinical features, complications, management and prevention of meningitis in children
2. PE30.2 Distinguish bacterial, viral and tuberculous meningitis
3. PE30.3 Discuss the etio-pathogenesis, classification, clinical features, complication and management of Hydrocephalus in children
4. PE30.4 Discuss the etio-pathogenesis, classification, clinical features, and management of Microcephaly in children
5. PE30.5 Enumerate the Neural tube defects. Discuss the causes, clinical features, types, and management of Neural Tube defect
6. PE30.6 Discuss the etio-pathogenesis, clinical features, and management of Infantile hemiplegia
7. PE30.7 Discuss the etio-pathogenesis, clinical features, complications and management of Febrile seizures in children
8. PE30.8 Define epilepsy. Discuss the pathogenesis, clinical types, presentation and management of Epilepsy in children
9. PE30.9 Define status Epilepticus. Discuss the clinical presentation and management
10. PE30.10 Discuss the etio-pathogenesis, clinical features and management of Mental retardation in children
11. PE30.11 Discuss the etio-pathogenesis, clinical features and management of children with cerebral palsy
12. PE30.12 Enumerate the causes of floppiness in an infant and discuss the clinical features, differential diagnosis and management
13. PE30.13 Discuss the etio-pathogenesis, clinical features, management and prevention of Poliomyelitis in children

*[Signature]*

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14. PE30.14 Discuss the etio-pathogenesis, clinical features and management of Duchene muscular dystrophy
15. PE30.15 Discuss the etio-pathogenesis, clinical features and management of Ataxia in children
16. PE30.16 Discuss the approach to and management of a child with headache

### XXXI. Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema

1. PE31.1 Describe the etio-pathogenesis, management and prevention of Allergic Rhinitis in Children
2. PE31.2 Recognize the clinical signs of Allergic Rhinitis
3. PE31.3 Describe the etio-pathogenesis, clinical features and management of Atopic dermatitis in Children
4. PE31.4 Identify Atopic dermatitis and manage
5. PE31.5 Discuss the etio-pathogenesis, clinical types, presentations, management and prevention of childhood Asthma
6. PE31.7 Develop a treatment plan for Asthma appropriate to clinical presentation & severity
7. PE31.12 Discuss the etio pathogenesis clinical features and complications Discuss the etio-pathogenesis, clinical features and complications

### XXXII. Chromosomal Abnormalities

1. PE32.1 Discuss the genetic basis, risk factors, complications, prenatal diagnosis, management and genetic counselling in Down's Syndrome
2. PE32.4 Discuss the referral criteria and Multidisciplinary approach to management
3. PE32.6 Discuss the genetic basis, risk factors, clinical features, complications, prenatal diagnosis, management and genetic counselling in Turner's Syndrome
4. PE32.9 Discuss the referral criteria and multidisciplinary approach to management of Turner Syndrome
5. PE32.11 Discuss the genetic basis, risk factors, complications, prenatal diagnosis, management and genetic counselling in Klinefelter Syndrome

### XXXIII. Endocrinology

1. PE33.1 Describe the etio-pathogenesis clinical features, management of Hypothyroidism in children
2. PE33.4 Discuss the etio-pathogenesis, clinical types, presentations, complication and management of Diabetes mellitus in children
3. PE33.8 Define precocious and delayed Puberty

### XXXIV. Vaccine preventable Diseases – Tuberculosis

1. PE34.1 Discuss the epidemiology, clinical features, clinical types, complications of Tuberculosis in Children and Adolescents
2. PE34.2 Discuss the various diagnostic tools for childhood tuberculosis
3. PE34.3 Discuss the various regimens for management of Tuberculosis as per National Guidelines

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## COURSE CONTENT

TITLE: PEDIATRICS (Theory & Practical/Clinical)

Prof/Phase-III Part-II to be held in the year 2023-24, 2024-25 & 2025-26

Course: Prof/Phase-III Part-II

Title: Pediatrics

Course No. Paper Part-I MBPAED0002, Paper Part-II MBPAED0002

Duration: 03 Hours

Maximum Marks: 200

Theory (Paper Part-I: 50 Marks)

(Paper Part-II: 50 Marks)

Practical/Clinical+Viva: Marks-100

4. PE34.4 Discuss the preventive strategies adopted and the objectives and outcome of the National Tuberculosis Control Program
5. PE34.10 Discuss the various samples for demonstrating the organism e.g. Gastric Aspirate, Sputum, CSF, FNAC
6. PE34.12 Enumerate the indications and discuss the limitations of methods of culturing M.Tuberculi
7. PE34.13 Enumerate the newer diagnostic tools for Tuberculosis including BACTEC CBNAAT and their indications
8. PE34.14 Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of fever in children
9. PE34.15 Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with exanthematous illnesses like Measles, Mumps, Rubella & Chicken pox
10. PE34.16 Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Diphtheria, Pertussis, Tetanus.
11. PE34.17 Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Typhoid
12. PE34.18 Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Dengue, Chikungunya and other vector born diseases
13. PE34.19 Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of children with Common Parasitic infections malaria
14. PE34.20 Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Rickettsial diseases K KH Y Lecture, Small group discussion Written/ Viva voce Microbiology



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Professor  
Pediatrics  
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## COURSE CONTENT

TITLE: PEDIATRICS (Theory & Practical/Clinical)

Prof/Phase-III Part-II to be held in the year 2023-24, 2024-25 & 2025-26

Course: Prof/Phase-III Part-II

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Course No. Paper Part-I MBPAED0002, Paper Part-II MBPAED0002

Duration: 03 Hours

Maximum Marks: 200

Theory (Paper Part-I: 50 Marks)

(Paper Part-II: 50 Marks)

Practical/Clinical+Viva:Marks-100

### Syllabus AETCOM:

#### Module 4.6: Case studies in Ethics and the Doctor- Industry relationship:-

Number

Competency

1. Identify conflicts of interest in patient care and professional relationship and describe the correct response to these conflicts.

#### Module 4.7: Case studies in Ethics and Patient Autonomy:-

Number

Competency

1. Identify conflicts of interest in patient care and professional relationship and describe the correct response to these conflicts.

### Paper wise distribution of topics for annual examination Phase-III MBBS (3<sup>rd</sup> Professional Part-II)

#### Subject: Pediatrics

Paper	Section	Topics
Paper (Part-I)	A- MCQs on all topics of the Paper (Part-I)	I. Normal Growth and Development II. Common problems related to Growth III. Common problems related to Development -1 (Developmental delay , Cerebral palsy) IV. Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD) V. Common problems related to behavior VI. Adolescent Health & common problems related to Adolescent Health VII. To promote and support optimal Breast feeding for Infants VIII. Complementary Feeding IX. Normal nutrition, assessment and monitoring X. Provide nutritional support , assessment and monitoring for common nutritional problems
	B- LAQ, MEQ, SAQ, One word/ Problem based/ applied/ Clinical Questions	XI. Obesity in children XII. Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C) XIII. Micronutrients in Health and disease-2: Iron, Iodine, Calcium, Magnesium XIV. Toxic elements and free radicals and oxygen toxicity XV. Fluid and electrolyte balance XVI. Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline XVII. The National Health programs, NHM XVIII. The National Health Programs: RCH XIX. National Programs, RCH - Universal Immunizations program

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Dr. Ghanashyam Saint

Prof.

& Head

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**COURSE CONTENT****TITLE: PEDIATRICS (Theory & Practical/Clinical)****Prof/Phase-III Part-II to be held in the year 2023-24, 2024-25 & 2025-26**

Course: Prof/Phase-III Part-II

Title: Pediatrics

Course No. Paper Part-I MBPAED0002, Paper Part-II MBPAED0002

Duration: 03 Hours

Maximum Marks: 200

Theory (Paper Part-I: 50 Marks)

(Paper Part-II: 50 Marks)

Practical/Clinical+Viva: Marks-100

Paper	Section	Topics
Paper (Part-II)	A- MCQs on all topics of the Paper (Part-II)	I. Care of the Normal New born, and High risk New born II. Genito-Urinary system III. Approach to and recognition of a child with possible Rheumatologic problem IV. Cardiovascular system- Heart Diseases V. Diarrhoeal diseases and Dehydration VI. Malabsorption VII. Acute and chronic liver disorders
	B- LAQ, MEQ, SAQ, One word/ Problem based/ applied/ Clinical Questions	VIII. Pediatric Emergencies – Common Pediatric Emergencies IX. Respiratory system X. Anemia and other Hemato-oncologic disorders in children XI. Systemic Pediatrics-Central Nervous system XII. Allergic Rhinitis, Atopic Dermatitis, Bronchial Asthma, Urticaria Angioedema XIII. Chromosomal Abnormalities XIV. Endocrinology XV. Vaccine preventable Diseases – Tuberculosis

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Professor & Head  
Post Graduate  
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Govt. Medical College  
Jammu



**TITLE: PEDIATRICS (Theory & Practical/Clinical)**

Course: Prof/Phase-III Part-II

Title: Pediatrics

Course No. Paper Part-I MBPAED0002, Paper Part-II MBPAED0002

Duration: 03 Hours

Maximum Marks: 200

Theory (Paper Part-I: 50 Marks)

(Paper Part-II: 50 Marks)

Practical/Clinical+Viva:Marks-100

**Note for paper setting:** The Question Paper will contain questions spread over the entire syllabus and the candidates will be required to attend all questions:

1. Paper (Part-I) to be set by External Examiner and Paper (Part-II) by Internal Examiner. Each part will carry 50 Marks (copy of syllabus enclosed).
2. All questions are compulsory.
3. Attempt questions in serial order.
4. Illustrate your answers with well labeled diagrams where ever necessary.

**A. Theory Paper = 100 Marks (50+50)**

<b>Question Paper Pediatric (Part-I)</b>	<b>Marks: 50</b>	<b>Question Paper Pediatric (Part-II)</b>	<b>Marks: 50</b>
1. Long Answer Questions(LAQ), MEQ 02x06marks= 12 marks		1. Long Answer Questions(LAQ), MEQ 02x06marks= 12 marks	
2. Short Answers Questions (SAQ) 05x04marks = 20 marks		2. Short Answers Questions (SAQ) 05x04marks = 20 marks	
3. Problem based/applied 02x04marks = 08 marks		3. Problem based/applied 02x04marks = 08 marks	
3. MCQs, Clinical One word 10 x 01 marks = 10 marks		3. MCQs, Clinical One word 10 x 01 marks = 10 marks	
----- Total 50 marks -----		----- Total 50 marks -----	

**B. Clinical + Viva = 100 Marks**

1. Long Case 1 = 25 Marks
2. Short case 2 (12.5 marks each) = 25 Marks
3. Instruments = 20 Marks
4. Viva/Oral = 20 Marks
5. Spot Diagnosis = 10 Marks

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**COURSE CONTENT**

**TITLE: PEDIATRICS (Theory & Practical/Clinical)**

**Prof/Phase-III Part-II to be held in the year 2023-24, 2024-25 & 2025-26**

Course: Prof/Phase-III Part-II

Title: Pediatrics

Course No. Paper Part-I MBPAED0002, Paper Part-II MBPAED0002

Duration: 03 Hours

Maximum Marks: 200

Theory (Paper Part-I: 50 Marks)

(Paper Part-II: 50 Marks)

Practical/Clinical+Viva: Marks-100

**Annexure-III**

**PASS CRITERIA**

**Internal Assessment:** 50% combined in Theory & Practical, (Practical = Practical/Clinical+Viva) (Not Less than 40% in each) for eligibility for appearing University examination.

**University Examination:** Mandatory 50% marks separately in Theory & Practical (Practical = Practical/Clinical+Viva).

(Theory = Theory Paper (s) Only)

At least 40% marks in each part with minimum 50% of marks in aggregate (both parts together).

Internal Assessment marks are not to be added to marks of University examinations and should be shown separately in the Grade Card.

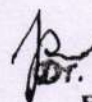
**Distribution of Marks:**

Theory – Paper (part-I & part-II) Each part of 50 Marks = 100 Marks

Practical/ Clinical + Oral = 100 Marks

Total = 200 Marks



  
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Professor & Head  
Post Graduate  
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## COURSE CONTENT

TITLE: PEDIATRICS (Theory & Practical/Clinical)

Prof/Phase-III Part-II to be held in the year 2023-24, 2024-25 & 2025-26

Course: Prof/Phase-III Part-II

Title: Pediatrics

Course No. Paper Part-I MBPAED0002, Paper Part-II MBPAED0002

Duration: 03 Hours

Maximum Marks: 200

Theory (Paper Part-I: 50 Marks)

(Paper Part-II: 50 Marks)

Practical/Clinical+Viva: Marks-100

Annexure-IV

## LOGBOOK

### Instructions:

- 1) This logbook is prepared as per the guidelines of National Medical Commission (NMC) for implementation of competency-based curriculum for phase III MBBS (3<sup>rd</sup> Professional Part-II) students in the subject of Pediatrics.
- 2) Students are instructed to keep their log book entries upto date.
- 3) Students are expected to write minimum 1 reflection on Self-Directed learning (SDL).
- 4) Students also have to write reflections on AETCOM Modules-4.6 & 4.7.
- 5) Reflections should be structured using the following guiding questions:
  - What happened?(What did you learn from this experience)
  - So what? (What are the applications of this learning)
  - What next? (What knowledge or skills do you need to develop so that you can handle this type of situation?)
- 6) The log book assessment will be based on multiple factors like
  - Attendance
  - Active participation in the sessions,
  - Timely completions
  - Quality of writeup of reflections
  - Overall presentation

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Professor  
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**COURSE CONTENT**

**TITLE: PEDIATRICS (Theory & Practical/Clinical)**

**Prof/Phase-III Part-II to be held in the year 2023-24, 2024-25 & 2025-26**

Course: Prof/Phase-III Part-II

Title: Pediatrics

Course No. Paper Part-I MBPAED0002, Paper Part-II MBPAED0002

Duration: 03 Hours

Maximum Marks: 200

Theory (Paper Part-I: 50 Marks)

(Paper Part-II: 50 Marks)

Practical/Clinical+Viva: Marks-100

**Annexure-V**

**Name of the College**

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**Admission Year:** \_\_\_\_\_

**CERTIFICATE**

This is to certify that, Mr/Ms. \_\_\_\_\_

ROLL No. \_\_\_\_\_ has satisfactorily attended/completed all assignments mentioned in this log book as per the guidelines prescribed by National Medical Commission (NMC) for phase III MBBS (3<sup>rd</sup> Prof. Part-II) competency Based Curriculum in the subject of Pediatrics.

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Place: \_\_\_\_\_

**Teacher-in-Charge**

**Professor and Head  
Department of Pediatrics**



**Dr. Ghanshyam Saint**  
Professor & Head  
Post Graduate  
Department of Pediatrics  
Govt. Medical College  
Jammu



## COURSE CONTENT

TITLE: PEDIATRICS (Theory & Practical/Clinical)

Prof/Phase-III Part-II to be held in the year 2023-24, 2024-25 & 2025-26

Course: Prof/Phase-III Part-II

Title: Pediatrics

Course No. Paper Part-I MBPAED0002, Paper Part-II MBPAED0002

Duration: 03 Hours

Maximum Marks: 200

Theory (Paper Part-I: 50 Marks)

(Paper Part-II: 50 Marks)

Practical/Clinical+Viva: Marks-100

## Annexure-VI

### Recommended reading books

#### Textbooks for Pediatrics

1. "Essentials of Pediatrics" by OP Ghai, Vinod K Paul and Piyush Gupta  
(latest edition)
2. "Care of the Newborn" by Meharban Singh (latest edition)


#### Reference Books

1. "Nelson Textbook of Pediatrics" by Richard E. Behrman, Robert M. Kliegman,  
Waldo E. Nelson and Victor C. Vaughan (latest edition)
2. "Rudolph's Pediatrics" by Abraham M. Rudolph, Julien IE Hoffman,  
Colin D. Rudolph and Paul Sagan (latest edition)
3. IAP Text book of Pediatrics (latest edition)

#### Clinical Methods

1. "Hutchison's Clinical Methods" by M Swash (latest edition)
2. "Pediatrics Clinical Methods" by Meharban Singh (latest edition)



  
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## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

**Course:** Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

**No. of Papers:** Two Papers - 100 Marks each.

**Course Code:** Paper I- MBIM000001 & Paper II- MBIM000002

**Title:** General Medicine

Maximum Marks: 400

**Duration:** 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Based on National Medical Commission's (NMC) Competency Based Undergraduate Curriculum  
for the Indian Medical Graduate, 2018  
(Volume – II, Page No. 62-142)

1. Total Teaching Hours	-	969
2.		
a) Integrated Lectures (Hours)	-	175
b) Small Group Teaching/Tutorials/Seminars (Hours)	-	183
c) Self-Directed Learning (Hours)	-	32
d) AETCOM (Hours)	-	15
e) Clinical Posting (Hours)	-	564

### Syllabus Competency Based: Paper – 1

GENERAL MEDICINE	
Number	Competency
<b>Topic: Heart Failure</b>	
IM1.1	Describe and discuss the epidemiology, pathogenesis clinical evolution and course of common causes of heart disease including: rheumatic/ valvular, ischemic, hypertrophic inflammatory
IM1.2	Describe and discuss the genetic basis of some forms of heart failure
IM1.3	Describe and discuss the aetiology microbiology pathogenies and clinical evolution of rheumatic fever, criteria, degree of rheumatic activity and rheumatic valvular heart disease and its complications including infective endocarditis
IM1.4	Stage heart failure
IM1.5	Describe ,discuss and differentiate the processes involved in R Vs L heart failure, systolic vs diastolic failure
IM1.6	Describe and discuss the compensatory mechanisms involved in heart failure including cardiac remodelling and neurohormonal adaptations
IM1.7	Enumerate, describe and discuss the factors that exacerbate heart dietary factors drugs etc.
IM1.8	Describe and discuss the pathogenesis and development of common arrhythmias involved in heart failure particularly atrial fibrillation
IM1.9	Describe and discuss the clinical presentation and features, diagnosis, recognition and management of acute rheumatic fever
IM1.10	Elicit document and present an appropriate history that will establish the diagnosis, cause and severity of heart failure including: presenting complaints, precipitating and exacerbating factors, risk factors exercise tolerance, changes in sleep patterns, features suggestive of infective endocarditis



## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

**Course:** Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

**No. of Papers:** Two Papers - 100 Marks each.

**Course Code:** Paper I- MBIM000001 & Paper II- MBIM000002

**Title:** General Medicine

Maximum Marks: 400

**Duration:** 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
IM1.11	Perform and demonstrate a systematic examination based on the history that will help establish the diagnosis and estimate its severity including: measurement of pulse, blood pressure and respiratory rate, jugular venous forms and pulses, peripheral pulses, conjunctiva and fundus, lung, cardiac examination including palpation and auscultation with identification of heart sounds and murmurs, abdominal distension and splenic palpation
IM1.12	Demonstrate peripheral pulse, volume, character, quality and variation in various causes of heart failure
IM1.13	Measure the blood pressure accurately, recognise and discuss alterations in blood pressure in valvular heart disease and other causes of heart failure and cardiac tamponade
IM1.14	Demonstrate and measure jugular venous distension
IM1.15	Identify and describe the timing, pitch quality conduction and significance of precordial murmurs and their variations
IM1.16	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis
IM1.17	Order and interpret diagnostic testing based on the clinical diagnosis including 12 lead ECG, Chest radiograph, blood cultures
IM1.18	Perform and interpret a 12 lead ECG
IM1.19	Enumerate the indications for and describe the findings of heart failure with the following conditions including: 2D echocardiography, brain natriuretic peptide, exercise testing, nuclear medicine testing and coronary angiogram
IM1.20	Determine the severity of valvular heart disease based on the clinical and laboratory and imaging features and determine the level of intervention required including surgery
IM1.21	Describe and discuss and identify the clinical features of acute and subacute endocarditis, echocardiographic findings, blood culture and sensitivity and therapy
IM1.22	Assist and demonstrate the proper technique in collecting specimen for blood culture
IM1.23	Describe, prescribe and communicate non pharmacologic management of heart failure including sodium restriction, physical activity and limitations
IM1.24	Describe and discuss the pharmacology of drugs including indications, contraindications in the management of heart failure including diuretics, ACE inhibitors, Beta blockers, aldosterone antagonists and cardiac glycosides
IM1.25	Enumerate the indications for valvuloplasty, valvotomy, coronary revascularization and cardiac transplantation
IM1.26	Develop document and present a management plan for patients with heart failure based on type of failure, underlying aetiology
IM1.27	Describe and discuss the role of penicillin prophylaxis in the prevention of rheumatic heart disease
IM1.28	Enumerate the causes of adult presentations of congenital heart disease and describe the distinguishing features between cyanotic and acyanotic heart disease
IM1.29	Elicit document and present an appropriate history, demonstrate correctly general examination, relevant clinical findings and formulate document and present a management plan for an adult patient presenting with a common form of congenital heart disease



## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

**Course:** Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

**No. of Papers:** Two Papers - 100 Marks each.

**Course Code:** Paper I- MBIM000001 & Paper II- MBIM000002

**Title:** General Medicine

Maximum Marks: 400

**Duration:** 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
IM1.30	Administer an intramuscular injection with an appropriate explanation to the patient
<b>Topic: Acute Myocardial Infarction/ IHD</b>	
IM2.1	Discuss and describe the epidemiology, antecedents and risk factors for atherosclerosis and ischemic heart disease
IM2.2	Discuss the aetiology of risk factors both modifiable and nonmodifiable of atherosclerosis and IHD
IM2.3	Discuss and describe the lipid cycle and the role of dyslipidemia in the pathogenesis of atherosclerosis
IM2.4	Discuss and describe the pathogenesis, natural history, evolution and complications of atherosclerosis and IHD
IM2.5	Define the various acute coronary syndromes and describe their evolution, natural history and outcomes
IM2.6	Elicit document and present an appropriate history that includes onset, evolution, presentation, risk factors, family history, comorbid conditions, complications, medication, history of atherosclerosis, IHD and coronary syndromes
IM2.7	Perform, demonstrate and document a physical examination including a vascular and cardiac examination that is appropriate for the clinical presentation
IM2.8	Generate document and present a differential diagnosis based on the clinical presentation and prioritise based on "cannot miss", most likely diagnosis and severity
IM2.9	Distinguish and differentiate between stable and unstable angina and AMI based on the clinical presentation
IM2.10	Order, perform and interpret an ECG
IM2.11	Order and interpret a Chest X-ray and markers of acute myocardial infarction
IM2.12	Choose and interpret a lipid profile and identify the desirable lipid profile in the clinical context
IM2.13	Discuss and enumerate the indications for and findings on echocardiogram, stress testing and coronary angiogram
IM2.14	Discuss and describe the indications for admission to a coronary care unit and supportive therapy for a patient with acute coronary syndrome
IM2.15	Discuss and describe the medications used in patients with an acute coronary syndrome based on the clinical presentation
IM2.16	Discuss and describe the indications for acute thrombolysis, PTCA and CABG
IM2.17	Discuss and describe the indications and methods of cardiac rehabilitation
IM2.18	Discuss and describe the indications, formulations, doses, side effects and monitoring for drugs used in the management of dyslipidemia
IM2.19	Discuss and describe the pathogenesis, recognition and management of complications of acute coronary syndromes including arrhythmias, shock, LV dysfunction, papillary muscle rupture and pericarditis
IM2.20	Discuss and describe the assessment and relief of pain in acute coronary syndromes
IM2.21	Observe and participate in a controlled environment an ACLS program
IM2.22	Perform and demonstrate in a mannequin BLS



## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

No. of Papers: Two Papers - 100 Marks each.

Course Code: Paper 1- MBIM000001 & Paper II- MBIM000002

Title: General Medicine

Duration: 3 Hours

Maximum Marks: 400

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
IM2.23	Describe and discuss the indications for nitrates, anti platelet agents, gpIIb IIIa inhibitors, beta blockers, ACE inhibitors etc in the management of coronary syndromes
IM2.24	Counsel and communicate to patients with empathy lifestyle changes in atherosclerosis / post coronary syndromes
<b>Topic: Pneumonia</b>	
IM3.1	Define, discuss, describe and distinguish community acquired pneumonia, nosocomial pneumonia and aspiration pneumonia
IM3.2	Discuss and describe the aetiologies of various kinds of pneumonia and their microbiology depending on the setting and immune status of the host
IM3.3	Discuss and describe the pathogenesis, presentation, natural history and complications of pneumonia
IM3.4	Elicit document and present an appropriate history including the evolution, risk factors including immune status and occupational risk
IM3.5	Perform, document and demonstrate a physical examination including general examination and appropriate examination of the lungs that establishes the diagnosis, complications and severity of disease
IM3.6	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation
IM3.7	Order and interpret diagnostic tests based on the clinical presentation including: CBC, Chest X ray PA view, Mantoux, sputum gram stain, sputum culture and sensitivity, pleural fluid examination and culture, HIV testing and ABG
IM3.8	Demonstrate in a mannequin and interpret results of an arterial blood gas examination
IM3.9	Demonstrate in a mannequin and interpret results of a pleural fluid aspiration
IM3.10	Demonstrate the correct technique in a mannequin and interpret results of a blood culture
IM3.11	Describe and enumerate the indications for further testing including HRCT, Viral cultures, PCR and specialised testing
IM3.12	Select, describe and prescribe based on the most likely aetiology, an appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum
IM3.13	Select, describe and prescribe based on culture and sensitivity appropriate empirical antimicrobial based on the pharmacology and antimicrobial spectrum.
IM3.14	Perform and interpret a sputum gram stain and AFB
IM3.15	Describe and enumerate the indications for hospitalisation in patients with pneumonia
IM3.16	Describe and enumerate the indications for isolation and barrier nursing in patients with pneumonia
IM3.17	Describe and discuss the supportive therapy in patients with pneumonia including oxygen use and indications for ventilation
IM3.18	Communicate and counsel patient on family on the diagnosis and therapy of pneumonia
IM3.19	Discuss, describe, enumerate the indications and communicate to patients on pneumococcal and influenza vaccines



## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

**Course:** Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

**No. of Papers:** Two Papers - 100 Marks each.

**Course Code:** Paper I- MBIM000001 & Paper II- MBIM000002

**Title:** General Medicine

Maximum Marks: 400

**Duration:** 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
<b>Topic: Fever and febrile syndromes</b>	
IM4.1	Describe and discuss the febrile response and the influence of host immune status, risk factors and comorbidities on the febrile response
IM4.2	Describe and discuss the influence of special populations on the febrile response including: the elderly, immune suppression, malignancy and neutropenia, HIV and travel
IM4.3	Discuss and describe the common causes, pathophysiology and manifestations of fever in various regions in India including bacterial, parasitic and viral causes (e.g. Dengue, Chikungunya, Typhus)
IM4.4	Describe and discuss the pathophysiology and manifestations of inflammatory causes of fever
IM4.5	Describe and discuss the pathophysiology and manifestations of malignant causes of fever including hematologic and lymph node malignancies
IM4.6	Discuss and describe the pathophysiology and manifestations of malaria
IM4.7	Discuss and describe the pathophysiology and manifestations of sepsis syndrome
IM4.8	Discuss and describe the pathophysiology, aetiology and clinical manifestations of fever of unknown origin (FUO) including in a normal host, neutropenic host, nosocomial host and a host with HIV disease
IM4.9	Elicit document and present a medical history that helps delineate the aetiology of fever that includes the evolution and pattern of fever, associated symptoms, immune status, comorbidities, risk factors, exposure through occupation, travel and environment and medication use
IM4.10	Perform a systematic examination that establishes the diagnosis and severity of presentation that includes: general skin mucosal and lymph node examination, chest and abdominal examination (including examination of the liver and spleen)
IM4.11	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes
IM4.12	Order and interpret diagnostic tests based on the differential diagnosis including: CBC with differential, peripheral smear, urinalysis with sediment, Chest X ray, blood and urine cultures, sputum gram stain and cultures, sputum AFB and cultures, CSF analysis, pleural and body fluid analysis, stool routine and culture and QBC
IM4.13	Perform and interpret a sputum gram stain
IM4.14	Perform and interpret a sputum AFB
IM4.15	Perform and interpret a malarial smear
IM4.16	Enumerate the indications and describe the findings in tests of inflammation and specific rheumatologic tests, serologic testing for pathogens including HIV, bone marrow aspiration and biopsy
IM4.17	Observe and assist in the performance of a bone marrow aspiration and biopsy in a simulated environment
IM4.18	Enumerate the indications for use of imaging in the diagnosis of febrile syndromes
IM4.19	Assist in the collection of blood and wound cultures
IM4.20	Interpret a PPD (Mantoux)
IM4.21	Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner
IM4.22	Describe and discuss the pharmacology, indications, adverse reactions, interactions of antimalarial drugs



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### Title: General Medicine (Theory & Practical/Clinical)

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Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
IM4.23	Prescribe drugs for malaria based on the species identified, prevalence of drug resistance and national programs
IM4.24	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis
IM4.25	Communicate to the patient and family the diagnosis and treatment
IM4.26	Counsel the patient on malarial prevention
<b>Topic: Liver disease</b>	
IM5.1	Describe and discuss the physiologic and biochemical basis of hyperbilirubinemia
IM5.2	Describe and discuss the aetiology and pathophysiology of liver injury
IM5.3	Describe and discuss the pathologic changes in various forms of liver disease
IM5.4	Describe and discuss the epidemiology, microbiology, immunology and clinical evolution of infective (viral) hepatitis
IM5.5	Describe and discuss the pathophysiology and clinical evolution of alcoholic liver disease
IM5.6	Describe and discuss the pathophysiology, clinical evolution and complications of cirrhosis and portal hypertension including ascites, spontaneous bacterial peritonitis, hepatorenal syndrome and hepatic encephalopathy
IM5.7	Enumerate and describe the causes and pathophysiology of drug induced liver injury
IM5.8	Describe and discuss the pathophysiology, clinical evolution and complications cholelithiasis and cholecystitis
IM5.9	Elicit document and present a medical history that helps delineate the aetiology of the current presentation and includes clinical presentation, risk factors, drug use, sexual history, vaccination history and family history
IM5.10	Perform a systematic examination that establishes the diagnosis and severity that includes nutritional status, mental status, jaundice, abdominal distension ascites, features of portosystemic hypertension and hepatic encephalopathy
IM5.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom
IM5.12	Choose and interpret appropriate diagnostic tests including: CBC, bilirubin, function tests, Hepatitis serology and ascitic fluid examination in patient with liver diseases.
IM5.13	Enumerate the indications for ultrasound and other imaging studies including MRCP and ERCP and describe the findings in liver disease
IM5.14	Outline a diagnostic approach to liver disease based on hyperbilirubinemia, liver function changes and hepatitis serology
IM5.15	Assist in the performance and interpret the findings of an ascitic fluid analysis
IM5.16	Describe and discuss the management of hepatitis, cirrhosis, portal hypertension, ascites spontaneous, bacterial peritonitis and hepatic encephalopathy
IM5.17	Enumerate the indications, precautions and counsel patients on vaccination for hepatitis



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Number	Competency
IM5.18	Enumerate the indications for hepatic transplantation
<b>Topic: HIV</b>	
IM6.1	Describe and discuss the symptoms and signs of acute HIV seroconversion.
IM6.2	Define and classify HIV AIDS based on the CDC criteria
IM6.3	Describe and discuss the relationship between CDC count and the risk of opportunistic infections
IM6.4	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related opportunistic infections
IM6.5	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related malignancies
IM6.6	Describe and discuss the pathogenesis, evolution and clinical features of common HIV related skin and oral lesions
IM6.7	Elicit document and present a medical history that helps delineate the aetiology of the current presentation and includes risk factors for HIV, mode of infection, other sexually transmitted diseases, risks for opportunistic infections and nutritional status
IM6.8	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology for the presenting symptom
IM6.9	Choose and interpret appropriate diagnostic tests to diagnose and classify the severity of HIV-AIDS including specific tests of HIV, CDC
IM6.10	Choose and interpret appropriate diagnostic tests to diagnose opportunistic infections including CBC, sputum examination and cultures, blood cultures, stool analysis, CSF analysis and Chest radiographic
IM6.11	Enumerate the indications and describe the findings for CT of the chest and brain and MRI
IM6.12	Enumerate the indications for and interpret the results of: pulse oximetry, ABG, Chest Radiograph
IM6.13	Describe and enumerate the indications and side effects of drugs for bacterial, viral and other types of diarrhea
IM6.14	Perform and interpret AFB sputum
IM6.15	Demonstrate in a model the correct technique to perform a lumbar puncture
IM6.16	Discuss and describe the principles of HAART, the classes of antiretrovirals used, adverse reactions and interactions
IM6.17	Discuss and describe the principles and regimens used in postexposure prophylaxis
IM6.18	Enumerate the indications and discuss prophylactic drugs used to prevent HIV related opportunistic infections
IM6.19	Counsel patients on prevention of HIV transmission
IM6.20	Communicate diagnosis, treatment plan and subsequent follow up plan to patients
IM6.21	Communicate with patients on the importance of medication adherence
IM6.22	Demonstrate understanding of ethical and legal issues regarding patient confidentiality and disclosure in patients with HIV
IM6.23	Demonstrate a non-judgemental attitude to patients with HIV and to their lifestyles
<b>Topic: Rheumatologic problems</b>	



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Number	Competency
IM7.1	Describe the pathophysiology of autoimmune disease
IM7.2	Describe the genetic basis of autoimmune disease
IM7.3	Classify cause of joint pain based on the pathophysiology
IM7.4	Develop a systematic clinical approach to joint pain based on the pathophysiology
IM7.5	Describe and discriminate acute, subacute and chronic causes of joint pain
IM7.6	Discriminate, describe and discuss arthralgia from arthritis and mechanical from inflammatory causes of joint pain
IM7.7	Discriminate, describe and discuss distinguishing articular from periarticular complaints
IM7.8	Determine the potential causes of joint pain based on the presenting features of joint involvement
IM7.9	Describe the common signs and symptoms of articular and periarticular diseases
IM7.10	Describe the systemic manifestations of rheumatologic disease
IM7.11	Elicit document and present a medical history that will differentiate the aetiologies of disease
IM7.12	Perform a systematic examination of all joints, muscle and skin that will establish the diagnosis and severity of disease
IM7.13	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
IM7.14	Describe the appropriate diagnostic work up based on the presumed aetiology
IM7.15	Enumerate the indications for and interpret the results of : CBC, anti-CCP, RA, ANA, DNA and other tests of autoimmunity
IM7.16	Enumerate the indications for arthrocentesis
IM7.17	Enumerate the indications and interpret plain radiographs of joints
IM7.18	Communicate diagnosis, treatment plan and subsequent follow up plan to patients
IM7.19	Develop an appropriate treatment plan for patients with rheumatologic diseases
IM7.20	Select, prescribe and communicate appropriate medications for relief of joint pain
IM7.21	Select, prescribe and communicate preventive therapy for crystalline arthropathies
IM7.22	Select, prescribe and communicate treatment option for systemic rheumatologic conditions
IM7.23	Describe the basis for biologic and disease modifying therapy in rheumatologic diseases
IM7.24	Communicate and incorporate patient preferences in the choice of therapy
IM7.25	Develop and communicate appropriate follow up and monitoring plans for patients with rheumatologic conditions
IM7.26	Demonstrate an understanding of the impact of rheumatologic conditions on quality of life, well being, work and family
IM7.27	Determine the need for specialist consultation
<b>Topic: Hypertension</b>	
IM8.1	Describe and discuss the epidemiology, aetiology and the prevalence of primary and secondary hypertension
IM8.2	Describe and discuss the pathophysiology of hypertension



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Number	Competency
IM8.3	Describe and discuss the genetic basis of hypertension
IM8.4	Define and classify hypertension
IM8.5	Describe and discuss the differences between primary and secondary hypertension
IM8.6	Define, describe and discuss and recognise hypertensive urgency and emergency
IM8.7	Describe and discuss the clinical manifestations of the various aetiologies of secondary causes of hypertension
IM8.8	Describe, discuss and identify target organ damage due to hypertension
IM8.9	Elicit document and present a medical history that includes: duration and levels, symptoms, comorbidities, lifestyle, risk factors, family history, psychosocial and environmental factors, dietary assessment, previous and concomitant therapy
IM8.10	Perform a systematic examination that includes : an accurate measurement of blood pressure, fundus examination, examination of vasculature and heart
IM8.11	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
IM8.12	Describe the appropriate diagnostic work up based on the presumed aetiology
IM8.13	Enumerate the indications for and interpret the results of : CBC, Urine routine, BUN, Cr, Electrolytes, Uric acid, ECG
IM8.14	Develop an appropriate treatment plan for essential hypertension
IM8.15	Recognise, prioritise and manage hypertensive emergencies
IM8.16	Develop and communicate to the patient lifestyle modification including weight reduction, moderation of alcohol intake, physical activity and sodium intake
IM8.17	Perform and interpret a 12 lead ECG
IM8.18	Incorporate patient preferences in the management of HTN
IM8.19	Demonstrate understanding of the impact of Hypertension on quality of life, well being, work and family
IM8.20	Determine the need for specialist consultation
<b>Topic: Anemia</b>	
IM9.1	Define, describe and classify anemia based on red blood cell size and reticulocyte count
IM9.2	Describe and discuss the morphological characteristics, aetiology and prevalence of each of the causes of anemia
IM9.3	Elicit document and present a medical history that includes symptoms, risk factors including GI bleeding, prior history, medications, menstrual history, and family history
IM9.4	Perform a systematic examination that includes : general examination for pallor, oral examination, DOAP session of hyperdynamic circulation, lymph node and splenic examination
IM9.5	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
IM9.6	Describe the appropriate diagnostic work up based on the presumed aetiology
IM9.7	Describe and discuss the meaning and utility of various components of the hemogram



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Number	Competency
IM9.8	Describe and discuss the various tests for iron deficiency
IM9.9	Order and interpret tests for anemia including hemogram, red cell indices, reticulocyte count, iron studies, B12 and folate
IM9.10	Describe, perform and interpret a peripheral smear and stool occult blood
IM9.11	Describe the indications and interpret the results of a bone marrow aspirations and biopsy
IM9.12	Describe, develop a diagnostic plan to determine the aetiology of anemia
IM9.13	Prescribe replacement therapy with iron, B12, folate
IM9.14	Describe the national programs for anemia prevention
IM9.15	Communicate the diagnosis and the treatment appropriately to patients
IM9.16	Incorporate patient preferences in the management of anemia
IM9.17	Describe the indications for blood transfusion and the appropriate use of blood components
IM9.18	Describe the precautions required necessary when performing a blood transfusion
IM9.19	Assist in a blood transfusion
IM9.20	Communicate and counsel patients with methods to prevent nutritional anemia
IM9.21	Determine the need for specialist consultation
<b>Topic: Acute Kidney Injury and Chronic renal failure</b>	
IM10.1	Define, describe and differentiate between acute and chronic renal failure
IM10.2	Classify, describe and differentiate the pathophysiologic causes of acute renal failure
IM10.3	Describe the pathophysiology and causes of pre renal ARF, renal and post renal ARF
IM10.4	Describe the evolution, natural history and treatment of ARF
IM10.5	Describe and discuss the aetiology of CRF
IM10.6	Stage Chronic Kidney Disease
IM10.7	Describe and discuss the pathophysiology and clinical findings of uraemia
IM10.8	Classify, describe and discuss the significance of proteinuria in CKD
IM10.9	Describe and discuss the pathophysiology of anemia and hyperparathyroidism in CKD
IM10.10	Describe and discuss the association between CKD glycemia and hypertension
IM10.11	Describe and discuss the relationship between CAD risk factors and CKD and in dialysis
IM10.12	Elicit document and present a medical history that will differentiate the aetiologies of disease, distinguish acute and chronic disease, identify predisposing conditions, nephrotoxic drugs and systemic causes
IM10.13	Perform a systematic examination that establishes the diagnosis and severity including determination of volume status, presence of edema and heart failure, features of uraemia and associated systemic disease
IM10.14	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
IM10.15	Describe the appropriate diagnostic work up based on the presumed aetiology
IM10.16	Enumerate the indications for and interpret the results of : renal function tests, calcium, phosphorus, PTH, urine electrolytes, osmolality, Anion gap



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Number	Competency
IM10.17	Describe and calculate indices of renal function based on available laboratories including FENa (Fractional Excretion of Sodium) and CrCl (Creatinine Clearance)
IM10.18	Identify the ECG findings in hyperkalemia
IM10.19	Enumerate the indications and describe the findings in renal ultrasound
IM10.20	Describe and discuss the indications to perform arterial blood gas analysis: interpret the data
IM10.21	Describe and discuss the indications for and insert a peripheral intravenous catheter
IM10.22	Describe and discuss the indications, demonstrate in a model and assist in the insertion of a central venous or a dialysis catheter
IM10.23	Communicate diagnosis treatment plan and subsequent follow up plan to patients
IM10.24	Counsel patients on a renal diet
IM10.25	Identify and describe the priorities in the management of ARF including diet, volume management, alteration in doses of drugs, monitoring and indications for dialysis
IM10.26	Describe and discuss supportive therapy in CKD including diet, anti hypertensives, glycemic therapy, dyslipidemia, anemia, hyperkalemia, hyperphosphatemia and secondary hyperparathyroidism
IM10.27	Describe and discuss the indications for renal dialysis
IM10.28	Describe and discuss the indications for renal replacement therapy
IM10.29	Describe discuss and communicate the ethical and legal issues involved in renal replacement therapy
IM10.30	Recognise the impact of CKD on patient's quality of life well being work and family
IM10.31	Incorporate patient preferences in to the care of CKD
<b>Topic: Diabetes Mellitus</b>	
IM11.1	Define and classify diabetes
IM11.2	Describe and discuss the epidemiology and pathogenesis and risk factors and clinical evolution of type 1 diabetes
IM11.3	Describe and discuss the epidemiology and pathogenesis and risk factors economic impact and clinical evolution of type 2 diabetes
IM11.4	Describe and discuss the genetic background and the influence of the environment on diabetes
IM11.5	Describe and discuss the pathogenesis and temporal evolution of microvascular and macrovascular complications of diabetes
IM11.6	Describe and discuss the pathogenesis and precipitating factors, recognition and management of diabetic emergencies
IM11.7	Elicit document and present a medical history that will differentiate the aetiologies of diabetes including risk factors, precipitating factors, lifestyle, nutritional history, family history, medication history, co-morbidities and target organ disease
IM11.8	Perform a systematic examination that establishes the diagnosis and severity that includes skin, peripheral pulses, blood pressure measurement, fundus examination, detailed examination of the foot (pulses, nervous and deformities and injuries)
IM11.9	Describe and recognise the clinical features of patients who present with a diabetic emergency



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Number	Competency
IM11.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
IM11.11	Order and interpret laboratory tests to diagnose diabetes and its complications including: glucoses, glucose tolerance test, glycosylated hemoglobin, urinary micro albumin, ECG, electrolytes, ABG, ketones, renal function tests and lipid profile
IM11.12	Perform and interpret a capillary blood glucose test
IM11.13	Perform and interpret a urinary ketone estimation with a dipstick
IM11.14	Recognise the presentation of hypoglycaemia and outline the principles on its therapy
IM11.15	Recognise the presentation of diabetic emergencies and outline the principles of therapy
IM11.16	Discuss and describe the pharmacologic therapies for diabetes their indications, contraindications, adverse reactions and interactions
IM11.17	Outline a therapeutic approach to therapy of T2Diabetes based on presentation, severity and complications in a cost effective manner
IM11.18	Describe and discuss the pharmacology, indications, adverse reactions and interactions of drugs used in the prevention and treatment of target organ damage and complications of Type II Diabetes including neuropathy, nephropathy, retinopathy, hypertension, dyslipidemia and cardiovascular disease
IM11.19	Demonstrate and counsel patients on the correct technique to administer insulin
IM11.20	Demonstrate to and counsel patients on the correct technique of self monitoring of blood glucoses
IM11.21	Recognise the importance of patient preference while selecting therapy for diabetes
IM11.22	Enumerate the causes of hypoglycaemia and describe the counter hormone response and the initial approach and treatment
IM11.23	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of diabetic ketoacidosis
IM11.24	Describe the precipitating causes, pathophysiology, recognition, clinical features, diagnosis, stabilisation and management of Hyperosmolar non ketotic state
<b>TOPIC: THYROID DYSFUNCTION</b>	
IM12.1	Describe the epidemiology and pathogenesis of hypothyroidism and hyperthyroidism including the influence of iodine deficiency and autoimmunity in the pathogenesis of thyroid disease
IM12.2	Describe and discuss the genetic basis of some forms of thyroid dysfunction
IM12.3	Describe and discuss the physiology of the hypothalamopituitary - thyroid axis, principles of thyroid function testing and alterations in physiologic function
IM12.4	Describe and discuss the principles of radio iodine uptake in the diagnosis of thyroid disorders
IM12.5	Elicit document and present an appropriate history that will establish the diagnosis cause of thyroid dysfunction and its severity
IM12.6	Perform and demonstrate a systematic examination based on the history that will help establish the diagnosis and severity including systemic signs of thyrotoxicosis and hypothyroidism, palpation of the pulse for rate and rhythm abnormalities, neck palpation of the thyroid and lymph nodes and cardiovascular findings



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Number	Competency
IM12.7	Demonstrate the correct technique to palpate the thyroid
IM12.8	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis
IM12.9	Order and interpret diagnostic testing based on the clinical diagnosis including CBC, thyroid function tests and ECG and radio iodine uptake and scan
IM12.10	Identify atrial fibrillation, pericardial effusion and bradycardia on ECG
IM12.11	Interpret thyroid function tests in hypo and hyperthyroidism
IM12.12	Describe and discuss the iodisation programs of the government of India
IM12.13	Describe the pharmacology, indications, adverse reaction, interactions of thyroxine and antithyroid drugs
IM12.14	Write and communicate to the patient appropriately a prescription for thyroxine based on age, sex, and clinical and biochemical status
IM12.15	Describe and discuss the indications of thionamide therapy, radio iodine therapy and surgery in the management of thyrotoxicosis
<b>TOPIC: COMMON MALIGNANCIES</b>	
IM13.1	Describe the clinical epidemiology and inherited & modifiable risk factors for common malignancies in Ind.
IM13.2	Describe the genetic basis of selected cancers
IM13.3	Describe the relationship between infection and cancers
IM13.4	Describe the natural history, presentation, course, complications and cause of death for common cancers
IM13.5	Describe the common issues encountered in patients at the end of life and principles of management
IM13.6	Describe and distinguish the difference between curative and palliative care in patients with cancer
IM13.7	Elicit document and present a history that will help establish the aetiology of cancer and includes the appropriate risk factors, duration and evolution
IM13.8	Perform and demonstrate a physical examination that includes an appropriate general and local examination that excludes the diagnosis, extent spread and complications of cancer
IM13.9	Demonstrate in a mannequin the correct technique for performing breast exam, rectal examination and cervical examination and pap smear
IM13.10	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis
IM13.11	Order and interpret diagnostic testing based on the clinical diagnosis including CBC and stool occult blood and prostate specific antigen
IM13.12	Describe the indications and interpret the results of Chest X Ray, mammogram, skin and tissue biopsies and tumor markers used in common cancers
IM13.13	Describe and assess pain and suffering objectively in a patient with cancer
IM13.14	Describe the indications for surgery, radiation and chemotherapy for common malignancies
IM13.15	Describe the need, tests involved, their utility in the prevention of common malignancies
IM13.16	Demonstrate an understanding and needs and preferences of patients when choosing curative and palliative therapy



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Number	Competency
IM13.17	Describe and enumerate the indications, use, side effects of narcotics in pain alleviation in patients with cancer
IM13.18	Describe and discuss the ethical and the medico legal issues involved in end of life care
IM13.19	Describe the therapies used in alleviating suffering in patients at the end of life
<b>TOPIC: OBESITY</b>	
IM14.1	Define and measure obesity as it relates to the Indian population
IM14.2	Describe and discuss the aetiology of obesity including modifiable and non-modifiable risk factors and secondary causes
IM14.3	Describe and discuss the monogenic forms of obesity
IM14.4	Describe and discuss the impact of environmental factors including eating habits, food, work, environment and physical activity on the incidence of obesity
IM14.5	Describe and discuss the natural history of obesity and its complications
IM14.6	Elicit and document and present an appropriate history that includes the natural history, dietary history, modifiable risk factors, family history, clues for secondary causes and motivation to lose weight
IM14.7	Perform, document and demonstrate a physical examination based on the history that includes general examination, measurement of abdominal obesity, signs of secondary causes and comorbidities
IM14.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis
IM14.9	Order and interpret diagnostic tests based on the clinical diagnosis including blood glucose, lipids, thyroid function tests etc.
IM14.10	Describe the indications and interpret the results of tests for secondary causes of obesity
IM14.11	Communicate and counsel patient on behavioural, dietary and lifestyle modifications
IM14.12	Demonstrate an understanding of patient's inability to adhere to lifestyle instructions and counsel them in a non - judgemental way
IM14.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for obesity
IM14.14	Describe and enumerate the indications and side effects of bariatric surgery
IM14.15	Describe and enumerate and educate patients, health care workers and the public on measures to prevent obesity and promote a healthy lifestyle
<b>TOPIC: GI BLEEDING</b>	
IM15.1	Enumerate, describe and discuss the aetiology of upper and lower GI bleeding
IM15.2	Enumerate, describe and discuss the evaluation and steps involved in stabilizing a patient who presents with acute volume loss and GI bleed
IM15.3	Describe and discuss the physiologic effects of acute blood and volume loss
IM15.4	Elicit and document and present an appropriate history that identifies the route of bleeding, quantity, grade, volume loss, duration, etiology, comorbid illnesses and risk factors
IM15.5	Perform, demonstrate and document a physical examination based on the history that includes general examination, volume assessment and appropriate abdominal examination



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Number	Competency
IM15.6	Distinguish between upper and lower gastrointestinal bleeding based on the clinical features
IM15.7	Demonstrate the correct technique to perform an anal and rectal examination in a mannequin or equivalent
IM15.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis
IM15.9	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, PT and PTT, stool examination, occult blood, liver function tests, H.pylori test.
IM15.10	Enumerate the indications for endoscopy, colonoscopy and other imaging procedures in the investigation of Upper GI bleeding
IM15.11	Develop, document and present a treatment plan that includes fluid resuscitation, blood and blood component transfusion, and specific therapy for arresting blood loss
IM15.12	Enumerate the indications for whole blood, component and platelet transfusion and describe the clinical features and management of a mismatched transfusion
IM15.13	Observe cross matching and blood / blood component transfusion
IM15.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of pressors used in the treatment of Upper GI bleed
IM15.15	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy of acid peptic disease including Helicobacter pylori
IM15.16	Enumerate the indications for endoscopic interventions and Surgery
IM15.17	Determine appropriate level of specialist consultation
IM15.18	Counsel the family and patient in an empathetic non-judgmental manner on the diagnosis and therapeutic options
<b>TOPIC: DIARRHEAL DISORDER</b>	
IM16.1	Describe and discuss the aetiology of acute and chronic diarrhea including infectious and non infectious causes
IM16.2	Describe and discuss the acute systemic consequences of diarrhea including its impact on fluid balance
IM16.3	Describe and discuss the chronic effects of diarrhea including malabsorption
IM16.4	Elicit and document and present an appropriate history that includes the natural history, dietary history, travel, sexual history and other concomitant illnesses
IM16.5	Perform, document and demonstrate a physical examination based on the history that includes general examination, including an appropriate abdominal examination
IM16.6	Distinguish between diarrhea and dysentery based on clinical features
IM16.7	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis
IM16.8	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, and stool examination
IM16.9	Identify common parasitic causes of diarrhea under the microscope in a stool specimen



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IM16.10	Identify vibrio cholera in a hanging drop specimen
IM16.11	Enumerate the indications for stool cultures and blood cultures in patients with acute diarrhea
IM16.12	Enumerate and discuss the indications for further investigations including antibodies, colonoscopy, diagnostic imaging and biopsy in the diagnosis of chronic diarrhea
IM16.13	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for parasitic causes of diarrhea
IM16.14	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy for bacterial and viral diarrhea
IM16.15	Distinguish based on the clinical presentation Crohn's disease from Ulcerative Colitis
IM16.16	Describe and enumerate the indications, pharmacology and side effects of pharmacotherapy including immunotherapy
IM16.17	Describe and enumerate the indications for surgery in inflammatory bowel disease

### Syllabus Competency Based: Paper – II

GENERAL MEDICINE	
TOPIC: HEADACHE	
IM17.1	Define and classify headache and describe the presenting features, precipitating factors, aggravating and relieving factors of various kinds of headache
IM17.2	Elicit and document and present an appropriate history including aura, precipitating aggravating and relieving factors, associated symptoms that help identify the cause of headaches
IM17.3	Classify migraine and describe the distinguishing features between classical and non classical forms of migraine
IM17.4	Perform and demonstrate a general neurologic examination and a focused examination for signs of intracranial tension including neck signs of meningitis
IM17.5	Generate document and present a differential diagnosis based on the clinical features, and prioritise the diagnosis based on the presentation
IM17.6	Choose and interpret diagnostic testing based on the clinical diagnosis including imaging
IM17.7	Enumerate the indications and describe the findings in the CSF in patients with meningitis
IM17.8	Demonstrate in a mannequin or equivalent the correct technique for performing a lumbar puncture
IM17.9	Interpret the CSF findings when presented with various parameters of CSF fluid analysis
IM17.10	Enumerate the indications for emergency care admission and immediate supportive care in patients with headache
IM17.11	Describe the indications, pharmacology, dose, side effects of abortive therapy in migraine
IM17.12	Describe the indications, pharmacology, dose, side effects of prophylactic therapy in migraine



## Course Content

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**Duration:** 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
IM17.13	Describe the pharmacology, dose, adverse reactions and regimens of drugs used in the treatment of bacterial, tubercular and viral meningitis
IM17.14	Counsel patients with migraine and tension headache on lifestyle changes and need for prophylactic therapy
<b>TOPIC: CEREBROVASCULAR ACCIDENT</b>	
IM18.1	Describe the functional and the vascular anatomy of the brain
IM18.2	Classify cerebrovascular accidents and describe the aetiology, predisposing genetic and risk factors pathogenesis of hemorrhagic and non hemorrhagic stroke
IM18.3	Elicit and document and present an appropriate history including onset, progression, precipitating and aggravating relieving factors, associated symptoms that help identify the cause of the cerebrovascular accident
IM18.4	Identify the nature of the cerebrovascular accident based on the temporal evolution and resolution of the illness
IM18.5	Perform, demonstrate & document physical examination that includes general and a detailed neurologic examination as appropriate, based on the history
IM18.6	Distinguish the lesion based on upper vs lower motor neuron, side, site and most probable nature of the lesion
IM18.7	Describe the clinical features and distinguish, based on clinical examination, the various disorders of speech
IM18.8	Describe and distinguish, based on the clinical presentation, the types of bladder dysfunction seen in CNS disease
IM18.9	Choose and interpret the appropriate diagnostic and imaging test that will delineate the anatomy and underlying cause of the lesion
IM18.10	Choose and interpret the appropriate diagnostic testing in young patients with a cerebrovascular accident
IM18.11	Describe the initial supportive management of a patient presenting with a cerebrovascular accident (CVA)
IM18.12	Enumerate the indications for and describe acute therapy of non hemorrhagic stroke including the use of thrombolytic agents
IM18.13	Enumerate the indications for and describe the role of anti platelet agents in non hemorrhagic stroke
IM18.14	Describe the initial management of a hemorrhagic stroke
IM18.15	Enumerate the indications for surgery in a hemorrhagic stroke
IM18.16	Enumerate the indications describe and observe the multidisciplinary rehabilitation of patients with a CVA
IM18.17	Counsel patient and family about the diagnosis and therapy in an empathetic manner
<b>TOPIC: MOVEMENT DISORDERS</b>	
IM19.1	Describe the functional anatomy of the locomotor system of the brain
IM19.2	Classify movement disorders of the brain based on distribution, rhythm, repetition, exacerbating and relieving factors
IM19.3	Elicit and document and present an appropriate history including onset, progression precipitating and aggravating relieving factors, associated symptoms that help identify the cause of the movement disorders



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Number	Competency
IM19.4	Perform, demonstrate and document a physical examination that includes a general examination and a detailed neurologic examination using standard movement rating scales
IM19.5	Generate document and present a differential diagnosis and prioritise based on the history and physical examination
IM19.6	Make a clinical diagnosis regarding on the anatomical location, nature and cause of the lesion based on the clinical presentation and findings
IM19.7	Choose and interpret diagnostic and imaging tests in the diagnosis of movement disorders
IM19.8	Discuss and describe the pharmacology, dose, side effects and interactions used in the drug therapy of Parkinson's syndrome
IM19.9	Enumerate the indications for use of surgery and botulinum toxin in the treatment of movement disorders
<b>TOPIC: ENVENOMATION</b>	
IM20.1	Enumerate the local poisonous snakes and describe the distinguishing marks of each
IM20.2	Describe, demonstrate in a volunteer or a mannequin and educate (to other health care workers / patients) the correct initial management of patient with a snake bite in the field
IM20.3	Describe the initial approach to the stabilisation of the patient who presents with snake bite
IM20.4	Elicit and document and present an appropriate history, the circumstance, time, kind of snake, evolution of symptoms in a patient with snake bite
IM20.5	Perform a systematic examination, document and present a physical examination that includes general examination, local examination, appropriate cardiac and neurologic examination
IM20.6	Choose and interpret the appropriate diagnostic testing in patients with snake bites
IM20.7	Enumerate the indications and describe the pharmacology, dose, adverse reactions, hypersensitivity reactions of anti snake venom
IM20.8	Describe the diagnosis, initial approach stabilisation and therapy of scorpion envenomation
IM20.9	Describe the diagnosis initial approach stabilisation and therapy of bee sting allergy
<b>TOPIC: POISONING</b>	
IM21.1	Describe the initial approach to the establishing of the patient who presents with poisoning
IM21.2	Enumerate the common plant poisons seen in your area and describe their toxicology, clinical features, prognosis and specific approach to detoxification
IM21.3	Enumerate the common corrosives used in your area and describe their toxicology, clinical features, prognosis and approach to therapy
IM21.4	Enumerate the commonly observed drug overdose in your area and describe their toxicology, clinical features, prognosis and approach to therapy
IM21.5	Observe and describe the functions and role of a poison center in suspected poisoning
IM21.6	Describe the medico legal aspects of suspected suicidal or homicidal poisoning and demonstrate the correct procedure to write a medico legal report on a suspected poisoning
IM21.7	Counsel family members of a patient with suspected poisoning about the clinical and medico legal aspects



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Number	Competency
IM21.8	Enumerate the indications for psychiatric consultation and describe the precautions to be taken in a patient with suspected suicidal ideation / gesture
<b>TOPIC: MINERAL, FLUID ELECTROLYTE AND ACID BASE DISORDER</b>	
IM22.1	Enumerate the causes of hypercalcemia and distinguish the features of PTH vs non PTH mediated hypercalcemia
IM22.2	Describe the aetiology, clinical manifestations, diagnosis and clinical approach to primary hyperparathyroidism
IM22.3	Describe the approach to the management of hypercalcemia
IM22.4	Enumerate the components and describe the genetic basis of the multiple endocrine neoplasia syndrome
IM22.5	Enumerate the causes and describe the clinical features and the correct approach to the diagnosis and management of the patient with hyponatremia
IM22.6	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hyponatremia
IM22.7	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hypokalemia
IM22.8	Enumerate the causes and describe the clinical and laboratory features and the correct approach to the diagnosis and management of the patient with hyperkalemia
IM22.9	Enumerate the causes and describe the clinical and laboratory features of metabolic acidosis
IM22.10	Enumerate the causes and describe the clinical and laboratory features of metabolic alkalosis
IM22.11	Enumerate the causes and describe the clinical and laboratory features of respiratory acidosis
IM22.12	Enumerate the causes and describe the clinical and laboratory features of respiratory alkalosis
IM22.13	Identify the underlying acid based disorder based on an ABG report and clinical situation
<b>TOPIC: NUTRITIONAL AND VITAMIN DEFICIENCIES</b>	
IM23.1	Discuss and describe the methods of nutritional assessment in an adult and calculation of caloric requirements during illnesses
IM23.2	Discuss and describe the causes and consequences of protein caloric malnutrition in the hospital
IM23.3	Discuss and describe the aetiology, causes, clinical manifestations, complications, diagnosis and management of common vitamin deficiencies
IM23.4	Enumerate the indications for enteral and parenteral nutrition in critically ill patients
IM23.5	Counsel and communicate to patients in a simulated environment with illness on an appropriate balanced diet
<b>TOPIC : GERIATRICS</b>	
IM24.1	Describe and discuss the epidemiology, pathogenesis, clinical evolution, presentation and course of common diseases in the elderly
IM24.2	Perform multidimensional geriatric assessment that includes medical, psycho-social and functional components
IM24.3	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of acute confusional states



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Number	Competency
IM24.4	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of vascular events in the elderly
IM24.5	Describe and discuss the aetiopathogenesis clinical presentation identification, functional changes, acute care, stabilization, management and rehabilitation of depression in the elderly
IM24.6	Describe and discuss the aetiopathogenesis causes, clinical presentation, difference in discussion presentation identification, functional changes, acute care, stabilization, management and rehabilitation of dementia in the elderly
IM24.7	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of personality changes in the elderly
IM24.8	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of osteoporosis in the elderly
IM24.9	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of CVA in the elderly
IM24.10	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of COPD in the elderly
IM24.11	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of the elderly undergoing surgery
IM24.12	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of degenerative joint disease
IM24.13	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of falls in the elderly
<b>TOPIC: MISCELLANEOUS INFECTIONS</b>	
IM25.1	Describe and discuss the response and the influence of host immune status, risk factors and comorbidities on zoonotic diseases (e.g. Leptospirosis, Rabies) and non-febrile infectious disease (e.g. Tetanus)
IM25.2	Discuss and describe the common causes, pathophysiology and manifestations of these diseases
IM25.3	Describe and discuss the pathophysiology and manifestations of these diseases
IM25.4	Elicit document and present a medical history that helps delineate the aetiology of these diseases that includes the evolution and pattern of symptoms, risk factors, exposure through occupation and travel
IM25.5	Perform a systematic examination that establishes the diagnosis and severity of presentation that includes: general skin, mucosal and lymph node examination, chest and abdominal examination (including examination of the liver and spleen)
IM25.6	Generate a differential diagnosis and prioritise based on clinical features that help distinguish between infective, inflammatory, malignant and rheumatologic causes
IM25.7	Order and interpret diagnostic tests based on the differential diagnosis including: CBC with differential, blood biochemistry, peripheral smear, urinary analysis with sediment, Chest X ray, blood and urine cultures, sputum gram stain and cultures, sputum AFB and cultures, CSF analysis, pleural and body fluid analysis, stool routine and culture and QBC
IM25.8	Enumerate the indications for use of newer techniques in the diagnosis of these infections
IM25.9	Assist in the collection of blood and other specimen cultures



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Number	Competency
IM25.10	Develop and present an appropriate diagnostic plan based on the clinical presentation, most likely diagnosis in a prioritised and cost effective manner
IM25.11	Develop an appropriate empiric treatment plan based on the patient's clinical and immune status pending definitive diagnosis
IM25.12	Communicate to the patient and family the diagnosis and treatment of identified infection
IM25.13	Counsel the patient and family on prevention of various infections due to environmental issues
<b>TOPIC: THE ROLE OF THE PHYSICIAN IN THE COMMUNITY</b>	
IM26.1	Enumerate and describe professional qualities and roles of a physician
IM26.2	Describe and discuss the commitment to lifelong learning as an important part of physician growth
IM26.3	Describe and discuss the role of non maleficence as a guiding principle in patient care
IM26.4	Describe and discuss the role of autonomy and shared responsibility as a guiding principle in patient care
IM26.5	Describe and discuss the role of beneficence of a guiding principle in patient care
IM26.6	Describe and discuss the role of a physician in health care system
IM26.7	Describe and discuss the role of justice as a guiding principle in patient care
IM26.8	Identify discuss medicolegal, socioeconomic and ethical issues as it pertains to organ donation
IM26.9	Identify, discuss and defend medicolegal, sociocultural, economic and ethical issues as it pertains to rights, equity and justice in access to health care
IM26.10	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to confidentiality in patient care
IM26.11	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to patient autonomy, patient rights and shared responsibility in health care
IM26.12	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to decision making in health care including advanced directives and surrogate decision making
IM26.13	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to decision making in emergency care including situations where patients do not have the capability or capacity to give consent
IM26.14	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as it pertains to research in human subjects
IM26.15	Identify, discuss and defend, medicolegal, socio-cultural and ethical issues as they pertain to consent for surgical procedures
IM26.16	Identify, discuss and defend medicolegal, socio-cultural, professional and ethical issues as it pertains to the physician patient relationship (including fiduciary duty)
IM26.17	Identify, discuss physician's role and responsibility to society and the community that she/ he serves
IM26.18	Identify, discuss and defend medicolegal, socio-cultural, professional and ethical issues in physician-industry relationships
IM26.19	Demonstrate ability to work in a team of peers and superiors
IM26.20	Demonstrate ability to communicate to patients in a patient, respectful, non threatening, non judgemental and empathetic manner



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Number	Competency
IM26.21	Demonstrate respect to patient privacy
IM26.22	Demonstrate ability to maintain confidentiality in patient care
IM26.23	Demonstrate a commitment to continued learning
IM26.24	Demonstrate respect in relationship with patients, fellow team members, superiors and other health care workers
IM26.25	Demonstrate responsibility and work ethics while working in the health care team
Number	COMPETENCY
IM26.26	Demonstrate ability to maintain required documentation in health care (including correct use of medical records)
IM26.27	Demonstrate personal grooming that is adequate and appropriate for health care responsibilities
IM26.28	Demonstrate adequate knowledge and use of information technology that permits appropriate patient care and continued learning
IM26.29	Communicate diagnostic and therapeutic options to patient and family in a simulated environment
IM26.30	Communicate care options to patient and family with a terminal illness in a simulated environment
IM26.31	Demonstrate awareness of limitations and seeks help and consultations appropriately
IM26.32	Demonstrate appropriate respect to colleagues in the profession
IM26.33	Demonstrate an understanding of the implications and the appropriate procedures and response to be followed in the event of medical errors
IM26.34	Identify conflicts of interest in patient care and professional relationships and describe the correct response to these conflicts
IM26.35	Demonstrate empathy in patient encounters
IM26.36	Demonstrate ability to balance personal and professional priorities
IM26.37	Demonstrate ability to manage time appropriately
IM26.38	Demonstrate ability to form and function in appropriate professional networks
IM26.39	Demonstrate ability to pursue and seek career advancement
IM26.40	Demonstrate ability to follow risk management and medical error reduction practices where appropriate
IM26.41	Demonstrate ability to work in a mentoring relationship with junior colleagues
IM26.42	Demonstrate commitment to learning and scholarship
IM26.43	Identify, discuss and defend medicolegal, sociocultural, economic and ethical issues as they pertain to in vitro fertilisation donor insemination and surrogate motherhood
IM26.44	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues pertaining to medical negligence
IM26.45	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues pertaining to malpractice
IM26.46	Identify, discuss and defend medicolegal, socio-cultural professional and ethical issues in dealing with impaired physicians



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Number	Competency
IM26.47	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as they pertain to refusal of care including do not resuscitate and withdrawal of life support
IM26.48	Demonstrate altruism
IM26.49	Administer informed consent and appropriately address patient queries to a patient being enrolled in a research protocol in a simulated environment

## Respiratory Medicine

Respiratory Medicine	
Topic: Tuberculosis	
CT1.1	Describe and discuss the epidemiology of tuberculosis and its impact on the work, life and economy of India
CT1.2	Describe and discuss the microbiology of tubercle bacillus, mode of transmission, pathogenesis, clinical evolution and natural history of pulmonary and extra pulmonary forms (including lymph node, bone, CNS)
CT1.3	Discuss and describe the impact of co-infection with HIV and other co-morbid conditions. Like diabetes on the natural history of tuberculosis
CT1.4	Describe the epidemiology, the predisposing factors and microbial and therapeutic factors that determine resistance to drugs
CT1.5	Elicit, document and present an appropriate medical history that includes risk factor, contacts, symptoms including cough and fever, CNS and other manifestations
CT1.6	Demonstrate and perform a systematic examination that establishes the diagnosis based on the clinical presentation that includes a) general examination, b) examination of the chest and lung including loss of volume, mediastinal shift, percussion and auscultation (including DOAP session of lung sounds and added sounds) c) examination of the lymphatic system and d) relevant CNS examination
CT1.7	Perform and interpret a PPD (Mantoux) and describe and discuss the indications and pitfalls of the test
CT1.8	Generate a differential diagnosis based on the clinical history and evolution of the disease that prioritises the most likely diagnosis
CT1.9	Order and interpret diagnostic tests based on the clinical presentation including: CBC, Chest X ray PA view, Mantoux, sputum culture and sensitivity, pleural fluid examination and culture, HIV testing
CT1.10	Perform and interpret an AFB stain
CT1.11	Assist in the performance, outline the correct tests that require to be performed and interpret the results of a pleural fluid aspiration
CT1.12	Enumerate the indications for tests including: serology, special cultures and polymerase chain reaction and sensitivity testing
CT1.13	Describe and discuss the origin, indications, technique of administration, efficacy and complications of the BCG vaccine



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Number	Competency
CT1.14	Describe and discuss the pharmacology of various anti-tuberculous agents, their indications, contraindications, interactions and adverse reactions
CT1.15	Prescribe an appropriate antituberculosis regimen based on the location of disease, smear positivity and negativity and co- morbidities based on current national guidelines including directly observed tuberculosis therapy (DOTS)
CT1.16	Describe the appropriate precautions, screening, testing and indications for chemoprophylaxis for contacts and exposed healthcare workers
CT1.17	Define criteria for the cure of Tuberculosis; describe and recognise the features of drug resistant tuberculosis, prevention and therapeutic regimens
CT1.18	Educate health care workers on National Program of Tuberculosis and administering and monitoring the DOTS program
CT1.19	Communicate with patients and family in an empathetic manner about the diagnosis, therapy
<b>Topic: Obstructive airway disease</b>	
CT2.1	Define and classify obstructive airway disease
CT2.2	Describe and discuss the epidemiology, risk factors and evolution of obstructive airway disease
CT2.3	Enumerate and describe the causes of acute episodes in patients with obstructive airway disease
CT2.4	Describe and discuss the physiology and pathophysiology of hypoxia and hypercapnia
CT2.5	Describe and discuss the genetics of alpha 1 antitrypsin deficiency in emphysema
CT2.6	Describe the role of the environment in the cause and exacerbation of obstructive airway disease
CT2.7	Describe and discuss allergic and non-allergic precipitants of obstructive airway disease
CT2.8	Elicit document and present a medical history that will differentiate the aetiologies of obstructive airway disease, severity and precipitants
CT2.9	Perform a systematic examination that establishes the diagnosis and severity that includes measurement of respiratory rate, level of respiratory distress, effort tolerance, breath sounds, added sounds, identification of signs of consolidation pleural effusion and pneumothorax
CT2.10	Generate a differential diagnosis and prioritise based on clinical features that suggest a specific aetiology
CT2.11	Describe, discuss and interpret pulmonary function tests
CT2.12	Perform and interpret peak expiratory flow rate
CT2.13	Describe the appropriate diagnostic work up based on the presumed aetiology
CT2.14	Enumerate the indications for and interpret the results of : pulse oximetry, ABG, Chest Radiograph
CT2.15	Generate a differential diagnosis and prioritise based on clinical features that suggest specific etiology
CT2.16	Discuss and describe therapies for OAD including bronchodilators, leukotriene inhibitors, mast cell stabilisers, theophylline, inhaled and systemic steroids, oxygen and immunotherapy
CT2.17	Describe and discuss the indications for vaccinations in OAD
CT2.18	Develop a therapeutic plan including use of bronchodilators and inhaled corticosteroids
CT2.19	Develop a management plan for acute exacerbations including bronchodilators, systemic steroids, antimicrobial therapy



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Number	Competency
CT2.20	Describe and discuss the principles and use of oxygen therapy in the hospital and at home
CT2.21	Describe, discuss and counsel patients appropriately on smoking cessation
CT2.22	Demonstrate and counsel patient on the correct use of inhalers
CT2.23	Communicate diagnosis, treatment plan and subsequent follow-up plan to patients
CT2.24	Recognise the impact of OAD on patient's quality of life, well-being, work and family
CT2.25	Discuss and describe the impact of OAD on the society and workplace
CT2.26	Discuss and describe preventive measures to reduce OAD in workplaces
CT2.27	Demonstrate an understanding of patient's inability to change working, living and environmental factors that influence progression of airway disease
CT2.28	Demonstrate an understanding for the difficulties faced by patients during smoking cessation

## PSYCHIATRY

PSYCHIATRY	
PS1.1	Establish rapport and empathy with patients
PS1.2	Describe the components of communication
PS1.3	Demonstrate breaking of bad news in a simulated environment
PS1.4	Describe and demonstrate the importance of confidentiality in patient encounters
<b>Topic: Mental health</b>	
PS2.1	Define stress and describe its components and causes
PS2.2	Describe the role of time management, study skills, balanced diet and sleep/wake habits in stress avoidance
PS2.3	Define and describe the principles and components of learning, memory and emotions
PS2.4	Describe the principles of personality development and motivation
PS2.5	Define and distinguish normality and abnormality
<b>Topic: Introduction to psychiatry</b>	
PS3.1	Describe the growth of psychiatry as a medical specialty, its history and contribution to society
PS3.2	Enumerate, describe and discuss important signs & symptoms of common mental disorders
PS3.3	Elicit, present and document a history in patients presenting with a mental disorder
PS3.4	Describe the importance of establishing rapport with patients
PS3.5	Perform, demonstrate and document a mental examination
PS3.6	Describe and discuss biological, psychological & social factors & their interactions in the causation of mental disorders
PS3.7	Enumerate and describe common organic psychiatric disorders, magnitude, etiology and clinical features
PS3.8	Enumerate and describe the essential investigations in patients with organic psychiatric disorders
PS3.9	Describe the steps and demonstrate in a simulated environment family education in patients with organic psychiatric disorders



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Number	Competency
PS3.10	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychiatric disorders
PS3.11	Enumerate the appropriate conditions for specialist referral in patients with psychiatric disorders
PS3.12	Describe, discuss and distinguish psychotic & non-psychotic (Mood, Anxiety, Stress related) disorders
<b>Topic: Psychotic disorders</b>	
PS4.1	Describe the magnitude and etiology of alcohol and substance use disorders
PS4.2	Elicit, describe and document clinical features of alcohol and substance use disorders
PS4.3	Enumerate and describe the indications and interpret laboratory and other tests used in alcohol and substance abuse disorders
PS4.4	Describe the treatment of alcohol and substance abuse disorders including behavioural and pharmacologic therapy
PS4.5	Demonstrate family education in a patient with alcohol and substance abuse in a simulated environment
PS4.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in alcohol and substance abuse
PS4.7	Enumerate the appropriate conditions for specialist referral in patients with alcohol and substance abuse disorders
<b>Topic: Psychotic disorders</b>	
PS5.1	Classify and describe the magnitude and etiology of schizophrenia & other psychotic disorders
PS5.2	Enumerate, elicit, describe and document clinical features, positive & negative
PS5.3	Describe the treatment of schizophrenia including behavioural and pharmacologic therapy
PS5.4	Demonstrate family education in a patient with schizophrenia in a simulated environment
PS5.5	Enumerate and describe the pharmacologic basis and side effects of drugs used in schizophrenia
PS5.6	Enumerate the appropriate conditions for specialist referral in patients with psychotic disorders
<b>Topic: Depression</b>	
PS6.1	Classify and describe the magnitude and etiology of depression
PS6.2	Enumerate, elicit, describe and document clinical features in patients with depression
PS6.3	Enumerate and describe the indications and interpret laboratory and other tests used in depression
PS6.4	Describe the treatment of depression including behavioural and pharmacologic therapy
PS6.5	Demonstrate family education in a patient with depression in a simulated environment
PS6.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in depression
<b>Topic: Bipolar disorders</b>	
PS7.1	Classify and describe the magnitude and etiology of bipolar disorders
PS7.2	Enumerate, elicit, describe and document clinical features in patients with bipolar disorders
PS7.3	Enumerate and describe the indications and interpret laboratory and other tests used in bipolar disorders
PS7.4	Describe the treatment of bipolar disorders including behavioural and pharmacologic therapy
PS7.5	Demonstrate family education in a patient with bipolar disorders in a simulated environment
PS7.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in bipolar disorders
PS7.7	Enumerate the appropriate conditions for specialist referral in patients with bipolar disorders



## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

**Course:** Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

**No. of Papers:** Two Papers - 100 Marks each.

**Course Code:** Paper I- MBIM000001 & Paper II- MBIM000002

**Title:** General Medicine

Maximum Marks: 400

**Duration:** 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
<b>Topic: Anxiety disorders</b>	
PS8.1	Enumerate and describe the magnitude and etiology of anxiety disorders
PS8.2	Enumerate, elicit, describe and document clinical features in patients with anxiety disorders
PS8.3	Enumerate and describe the indications and interpret laboratory and other tests used in anxiety disorders
PS8.4	Describe the treatment of anxiety disorders including behavioural and pharmacologic therapy
PS8.5	Demonstrate family education in a patient with anxiety disorders in a simulated environment
PS8.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in anxiety disorders
PS8.7	Enumerate the appropriate conditions for specialist referral in anxiety disorders
<b>Topic: Stress related disorders</b>	
PS9.1	Enumerate and describe the magnitude and etiology of stress related disorders
PS9.2	Enumerate, elicit, describe and document clinical features in patients with stress related disorders
PS9.3	Enumerate and describe the indications and interpret laboratory and other tests used in stress related disorders
PS9.4	Describe the treatment of stress related disorders including behavioural and psychosocial therapy
PS9.5	Demonstrate family education in a patient with stress related disorders in a simulated environment
PS9.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in stress related disorder
PS9.7	Enumerate the appropriate conditions for specialist referral in stress disorders
<b>Topic: Somatoform Disorders</b>	
PS10.1	Enumerate and describe the magnitude and etiology of somatoform, dissociative and conversion disorders
PS10.2	Enumerate, elicit, describe and document clinical features in patients with somatoform, dissociative and conversion disorders
PS10.3	Enumerate and describe the indications and interpret laboratory and other tests used in somatoform, dissociative and conversion disorders
PS10.4	Describe the treatment of somatoform disorders including behavioural, psychosocial and pharmacologic therapy
PS10.5	Demonstrate family education in a patient with somatoform, dissociative and conversion disorders in a simulated environment
PS10.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in somatoform, dissociative and conversion disorders
PS10.7	Enumerate the appropriate conditions for specialist referral in patients with somato form dissociative and conversion disorders
<b>Topic: Personality Disorders</b>	
PS11.1	Enumerate and describe the magnitude and etiology of personality disorders
PS11.2	Enumerate, elicit, describe and document clinical features in patients with personality disorders
PS11.3	Enumerate and describe the indications and interpret laboratory and other tests used in personality disorders



## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

No. of Papers: Two Papers - 100 Marks each.

Course Code: Paper I- MBIM000001 & Paper II- MBIM000002

Title: General Medicine

Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
PS11.4	Describe the treatment of personality disorders including behavioural, psychosocial and pharmacologic therapy
PS11.5	Demonstrate family education in a patient with personality disorders in a simulated environment
PS11.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in personality disorders
PS11.7	Enumerate the appropriate conditions for specialist referral
<b>Topic :Psychosomatic Disorders</b>	
PS12.1	Enumerate and describe the magnitude and etiology of psychosomatic disorders
PS12.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosomatic disorders
PS12.3	Enumerate and describe the indications and interpret laboratory and other tests of psychosomatic disorders
PS12.4	Describe the treatment of <b>psychosomatic</b> disorders including behavioural, psychosocial and pharmacologic therapy
PS12.5	Demonstrate family education in a patient with psychosomatic disorders in a simulated environment
PS12.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychosomatic disorders
PS12.7	Enumerate the appropriate conditions for specialist referral
<b>Topic: Psychosexual and Gender Identity Disorders</b>	
PS13.1	Enumerate and describe the magnitude and etiology of psychosexual and gender identity disorders
PS13.2	Enumerate, elicit, describe and document clinical features in patients with magnitude and etiology of psychosexual and gender identity disorders
PS13.3	Enumerate and describe the indications and interpret laboratory and other tests used in psychosexual and gender identity disorders
PS13.4	Describe the treatment of psychosexual and gender identity disorders including behavioural, psychosocial and pharmacologic therapy
PS13.5	Demonstrate family education in a patient with psychosexual and gender identity disorders in a simulated environment
PS13.6	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychosexual and gender identity disorders
PS13.7	Enumerate the appropriate conditions for specialist referral
<b>Topic: Psychiatric Disorders in Childhood and Adolescence</b>	
PS14.1	Enumerate and describe the magnitude and etiology of psychiatric disorders occurring in childhood and adolescence
PS14.2	Enumerate, elicit, describe and document clinical features in patients with psychiatric disorders occurring in childhood and adolescence
PS14.3	Describe the treatment of stress related disorders including behavioural, psychosocial and pharmacologic therapy
PS14.4	Demonstrate family education in a patient with psychiatric disorders occurring in childhood and adolescence in a simulated environment



## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

**Course:** Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

**No. of Papers:** Two Papers - 100 Marks each.

**Course Code:** Paper I- MBIM000001 & Paper II- MBIM000002

**Title:** General Medicine

Maximum Marks: 400

**Duration:** 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
PS14.5	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychiatric disorders occurring in childhood and adolescence
PS14.6	Enumerate the appropriate conditions for specialist referral in children and adolescents with psychiatric disorders
<b>Topic: Mental Retardation</b>	
PS15.1	Describe the aetiology and magnitude of mental retardation
PS15.2	Describe and discuss intelligence quotient and its measurement
PS15.3	Elicit and document a history and clinical examination and choose appropriate investigations in a patient with mental retardation
PS15.4	Describe the psychosocial interventions and treatment used in mental retardation
<b>Topic: Psychiatric Disorders in the Elderly</b>	
PS16.1	Enumerate and describe common psychiatric disorders in the elderly including dementia, depression and psychosis
PS16.2	Describe the aetiology and magnitude of psychiatric illness in the elderly
PS16.3	Describe the therapy of psychiatric illness in elderly including psychosocial and behavioural therapy
PS16.4	Demonstrate family education in a patient with psychiatric disorders occurring in the elderly in a simulated environment
PS16.5	Enumerate the appropriate conditions for specialist referral in psychiatric disorders in the elderly
<b>Topic: Psychiatric emergencies</b>	
PS17.1	Enumerate and describe the recognition and clinical presentation of psychiatric emergencies (Suicide, Deliberate Self Harm, Violent behaviour)
PS17.2	Describe the initial stabilisation and management of psychiatric emergencies
PS17.3	Enumerate the appropriate conditions for specialist referral in patients with psychiatric emergencies
<b>Topic: Therapeutics</b>	
PS18.1	Enumerate the indications and describe the pharmacology, dose and side effects of commonly used drugs in psychiatric disorders
PS18.2	Enumerate the indications for modified electroconvulsive therapy
PS18.3	Enumerate and describe the principles and role of psychosocial interventions in psychiatric illness including psychotherapy, behavioural therapy and rehabilitation
<b>Topic: Miscellaneous</b>	
PS19.1	Describe the relevance, role and status of community psychiatry
PS19.2	Describe the objectives strategies and contents of the National Mental Health Policy
PS19.3	Describe and discuss the basic legal and ethical issues in psychiatry
PS19.4	Enumerate and describe the salient features of the prevalent mental health laws in India
PS19.5	Describe the concept and principles of preventive psychiatry and mental health promotion (positive mental health); and community education



## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

No. of Papers: Two Papers - 100 Marks each.

Course Code: Paper I- MBIM000001 & Paper II- MBIM000002

Title: General Medicine

Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
PS19.6	Enumerate and describe the identifying features and the principles of participatory management of mental illness occurring during and after disasters

### Dermatology, Venerology and Leprosy

DERMATOLOGY, VENEREOLOGY & LEPROSY	
<b>Topic: Acne</b>	
DR1.1	Enumerate the causative and risk factors of acne
DR1.2	Identify and grade the various common types of acne
DR1.3	Describe the treatment and preventive measures for various kinds of acne
<b>Topic: Vitiligo</b>	
DR2.1	Identify and differentiate vitiligo from other causes of hypopigmented lesions
DR2.2	Describe the treatment of vitiligo
<b>Topic: Papulosquamous disorders</b>	
DR3.1	Identify and distinguish psoriatic lesions from other causes
DR3.2	Demonstrate the grattage test
DR3.3	Enumerate the indications for and describe the various modalities of treatment of psoriasis including topical, systemic and phototherapy
<b>Topic: Lichen Planus</b>	
DR4.1	Identify and distinguish lichen planus lesions from other causes
DR4.2	Enumerate and describe the treatment modalities for lichen planus
<b>Topic: Scabies</b>	
DR5.1	Describe the etiology, microbiology, pathogenesis, natural history, clinical features, presentations and complications of scabies in adults and children
DR5.2	Identify and differentiate scabies from other lesions in adults and children
DR5.3	Enumerate and describe the pharmacology, administration and adverse reaction of pharmacotherapies for scabies
<b>Topic: Pediculosis</b>	
DR6.1	Describe the etiology, pathogenesis and diagnostic features of pediculosis in adults and children
DR6.2	Identify and differentiate pediculosis from other skin lesions in adults and children
<b>Topic : Fungal Infections</b>	
DR7.1	Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of dermatophytes in adults and children
DR7.2	Identify Candida species in fungal scrapings and KOH mount
DR7.3	Describe the pharmacology and action of antifungal (systemic and topical) agents. Enumerate side effects of antifungal therapy



## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

**Course:** Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

**No. of Papers:** Two Papers - 100 Marks each.

**Course Code:** Paper 1- MBIM000001 & Paper II- MBIM000002

**Title:** General Medicine

Maximum Marks: 400

**Duration:** 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
<b>Topic: Viral infections</b>	
DR8.1	Describe the etiology, microbiology, pathogenesis and clinical presentations and diagnostic features of common viral infections of the skin in adults and children
DR8.2	Identify and distinguish herpes simplex and herpes labialis from other skin lesions
DR8.3	Identify and distinguish herpes zoster and varicella from other skin lesions
DR8.4	Identify and distinguish viral warts from other skin lesions
DR8.5	Identify and distinguish molluscum contagiosum from other skin lesions
DR8.6	Enumerate the indications, describe the procedure and perform a Tzanck smear
DR8.7	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for common viral illnesses of the skin
<b>Topic: Leprosy</b>	
DR9.1	Classify, describe the epidemiology, etiology, microbiology, pathogenesis, clinical presentations and diagnostic features of Leprosy
DR9.2	Demonstrate (and classify based on) the clinical features of leprosy including an appropriate neurologic examination
DR9.3	Enumerate the indications and observe the performance of a slit skin smear in patients with leprosy
DR9.4	Enumerate, describe & identify lepra reactions and supportive measures and therapy of lepra reactions
DR9.5	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for various classes of leprosy based on national guidelines
DR9.6	Describe the treatment of Leprosy based on the WHO guidelines
DR9.7	Enumerate and describe the complications of leprosy and its management, including understanding disability and stigma.
<b>Topic: Sexually transmitted diseases</b>	
DR10.1	Identify and classify syphilis based on the presentation and clinical manifestations
DR10.2	Identify spirochete in a dark ground microscopy
DR10.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for syphilis
DR10.4	Describe the prevention of congenital syphilis
DR10.5	Counsel in a non-judgemental and empathetic manner patients on prevention of sexually transmitted disease
DR10.6	Describe the etiology, diagnostic and clinical features of non-syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)
DR10.7	Identify and differentiate based on the clinical features non-syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)
DR10.8	Enumerate the indications and describe the pharmacology, indications and adverse reactions of drugs used in the non-syphilitic sexually transmitted diseases (chancroid, donovanosis and LGV)
DR10.9	Describe the syndromic approach to ulcerative sexually transmitted disease
DR10.10	Describe the etiology, diagnostic and clinical features and management of gonococcal and non-gonococcal urethritis



## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

**Course:** Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

**No. of Papers:** Two Papers - 100 Marks each.

**Course Code:** Paper I- MBIM000001 & Paper II- MBIM000002

**Title:** General Medicine

Maximum Marks: 400

**Duration:** 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
DR10.11	Describe the etiology, diagnostic and clinical features and management of vaginal discharge
<b>Topic: HIV</b>	
DR11.1	Describe the etiology, pathogenesis and clinical features of the dermatologic manifestations of HIV and its complications including opportunistic infections
DR11.2	Identify and distinguish the dermatologic manifestations of HIV, its complications, opportunistic infections and adverse reactions
DR11.3	Enumerate the indications and describe the pharmacology, administration and adverse reaction of pharmacotherapies for dermatologic lesions in HIV
<b>Topic: Dermatitis and Eczema</b>	
DR12.1	Describe the aetiopathogenesis of eczema
DR12.2	Identify eczema and differentiate it from lichenification and changes of aging
DR12.3	Classify and grade eczema
DR12.4	Enumerate the indications and describe the pharmacology, indications and adverse reactions of drugs used in the treatment of eczema
DR12.5	Define erythroderma. Enumerate and identify the causes of erythroderma. Discuss the treatment
DR12.6	Identify and distinguish exfoliative dermatitis from other skin lesions
DR12.7	Identify and distinguish fixed drug eruptions and Steven Johnson syndrome from other skin lesions
<b>Topic: Vesicubullous Lesions</b>	
DR13.1	Distinguish bulla from vesicles
DR13.2	Demonstrate the Tzanck test, nikolsky sign and bulla spread sign
DR13.3	Calculate the body surface area of involvement of vesicubullous lesions
<b>Topic: Urticaria Angioedema</b>	
DR14.1	Describe the etiology, pathogenesis and clinical precipitating features and classification of Urticaria and angioedema
DR14.2	Identify and distinguish urticarial from other skin lesions
DR14.3	Demonstrate dermographism
DR14.4	Identify and distinguish angioedema from other skin lesions
DR14.5	Enumerate the indications and describe the pharmacology indications and adverse reactions of drugs used in the urticaria and angioedema
<b>Topic: Pyoderma</b>	
DR15.1	Identify and distinguish folliculitis impetigo and carbuncle from other skin lesions
DR15.2	Identify staphylococcus on a gram stain
DR15.3	Enumerate the indications and describe the pharmacology, indications and adverse reactions of topical and systemic drugs used in treatment of pyoderma
DR15.4	Enumerate the indications for surgical referral
<b>Topic: Collagen Vascular Disease</b>	



## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

No. of Papers: Two Papers - 100 Marks each.

Course Code: Paper 1- MBIM000001 & Paper II- MBIM000002

Title: General Medicine

Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
DR16.1	Identify and distinguish skin lesions of SLE
DR16.2	Identify and distinguish Raynaud's phenomenon
<b>Topic: Nutritional Deficiencies and Skin</b>	
DR17.1	Enumerate and identify the cutaneous findings in vitamin A deficiency
DR17.2	Enumerate and describe the various skin changes in Vitamin B complex deficiency
DR17.3	Enumerate and describe the various changes in Vitamin C deficiency
DR17.4	Enumerate and describe the various changes in Zinc deficiency
<b>Topic: Systemic Diseases and the Skin</b>	
DR18.1	Enumerate the cutaneous features of Type 2 diabetes
DR18.2	Enumerate the cutaneous features of hypo/hyper-thyroidism

## Physical Medicine & Rehabilitation

PHYSICAL MEDICINE & REHABILITATION	
<b>Topic: Introduction to Physical Medicine</b>	
PM1.1	Define and describe the scope of physical Medicine and Rehabilitation and functional restoration
PM1.2	Define and describe disability, its cause, and magnitude, identification and prevention of disability
PM1.3	Define and describe the methods to identify and prevent disability
PM1.4	Enumerate the rights and entitlements of differently abled persons
<b>Topic: Cerebrovascular Accident</b>	
PM2.1	Describe the causes of disability in the patient with cerebrovascular accident
PM2.2	Describe and discuss the treatment of rigidity and spasticity
PM2.3	Describe and discuss the principles of early mobilizations, mobility aids and splints
PM2.4	Describe and discuss the impact of co-morbidities on the rehabilitation of the patient with cerebrovascular accident
<b>Topic: Cerebral Palsy</b>	
PM3.1	Describe and discuss the clinical features, types, evaluation, diagnosis & management of cerebral palsy
PM3.2	Recognize, Describe and discuss the spectrum of multiple disability: cognitive, motor, visual and hearing in cerebral palsy
PM3.3	Recognize describe and discuss the role of special education in children with learning disabilities
PM3.4	Demonstrate spasticity rigidity and dystonia in children with cerebral palsy
PM3.5	Enumerate the indications and describe the therapies for spasticity including medications, serial casts, nerve blocks, botulinum toxin injections
PM3.6	Enumerate the indications and describe prevention of joint subluxations and contractures by proper positioning, and use of special chairs, and appliances



## Course Content

### Title: General Medicine (Theory & Practical/Clinical)

**Course:** Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

**No. of Papers:** Two Papers - 100 Marks each.

**Course Code:** Paper I- MBIM000001 & Paper II- MBIM000002

**Title:** General Medicine

Maximum Marks: 400

**Duration:** 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
PM3.7	Enumerate the first aid measures to be used in patients with seizures
<b>Topic: Musculoskeletal System</b>	
PM4.1	Describe the common patterns, clinical features, investigations, diagnosis and treatment of common causes of arthritis
PM4.2	Describe and discuss the principles of management of chronic pain and role of common modalities (moist heat, ultrasound, Short wave diathermy)
PM4.3	Observe in a mannequin or equivalent the administration of an intra-articular injection
PM4.4	Describe the role of exercise as a therapeutic modality
PM4.5	Demonstrate correct assessment of muscle strength and range of movements
<b>Topic: Lower Motor Neuron Lesion</b>	
PM6.1	Perform and demonstrate a clinical examination of sensory and motor deficits of peripheral nerve
PM6.2	Enumerate the indications and describe the principles of nerve conduction velocity and EMG
PM6.3	Describe the principles of skin traction, serial casts and surgical treatment including contracture release, tendon transfer, osteotomies and arthrodesis.
PM6.4	Describe the principles of orthosis for ambulation in PPRP

## Syllabus: AETCOM (Paper I & II)

<b>AETCOM</b>	
<b>Module 4.1: The foundations of communication - 5</b>	
Number	Competency
1.	Demonstrate ability to communicate to patients in a patient, respectful, non-threatening, non-judgmental and empathetic manner
2.	Communicate diagnostic and therapeutic options to patient and family in a simulated environment
<b>Module 4.2 : Case studies in medico-legal and ethical situations</b>	
1.	Identify, discuss and defend medico-legal, socioeconomic and ethical issues as it pertains to abortion / Medical Termination of Pregnancy and reproductive rights
<b>Module 4.3: Case studies in medico-legal and ethical situations</b>	
1.	Identify and discuss medico-legal, socio-economic and ethical issues as it pertains to organ donation



Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

No. of Papers: Two Papers - 100 Marks each.

Course Code: Paper 1- MBOG000001 & Paper II- MBOG000002

Title: General Medicine

Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

**Paper Wise Distribution of Topics for Annual Examination Phase III MBBS (3<sup>rd</sup> Professional Part-II)**

Paper	Section	Topics
Paper- I	A	MCQ on all topics of the paper-I (20 Marks)
	B	General Medicine (75 Marks)
		Heart failure
		Acute myocardial infarction
		Pneumonia
		Fever and febrile syndrome
		Liver diseases
		HIV
		Rheumatological problems
		Hypertension
		Anemia
		Acute kidney injury and chronic renal failure
		Diabetes mellitus
		Thyroid dysfunction
		Common malignancies
		Obesity
		GI bleeding
		Diarrheal disorder
		AETCOM Module 4.1, 4.2 (5 Marks)
Paper-II	A	MCQ on all topics of paper – II (20 Marks)
	B Part -I	General Medicine (35 Marks)
		Headache
		Cerebrovascular accident
		Movement disorders
		Envenomation
		Poisoning
		Mineral ,fluid and electrolyte and acid base disorder
		Nutritional and vitamin deficiencies

II



Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

No. of Papers: Two Papers - 100 Marks each.

Course Code: Paper 1- MBOG000001 & Paper II- MBOG000002

Title: General Medicine

Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

II

	B Part-II	<b>Respiratory Medicine (5 Marks)</b>
		Tuberculosis
		Obstructive airway diseases
		<b>Psychiatry (15 Marks)</b>
		Mental health
		Introduction to psychiatry
		Psychotic disorders
		Depression
		Bipolar disorders
		Anxiety disorders
		Stress related disorders
		Somatoform disorder
		Personality disorder
		Psychosomatic disorders
		Psychosexual disorder and gender identity disorders
		Psychiatric disorders in childhood and adolescence
		Mental retardation
		Psychiatric disorders in the elderly
		Psychiatric emergencies
		Therapeutics
		Miscellaneous
		<b>Dermatology, Venerology and Leprosy (15 Marks)</b>
		Acne
		Vitiligo
		Papulosquamous disorder
		Lichen planus
		Scabies
		Pediculosis
		Fungal infections
		Viral infections
		Leprosy
		Sexually transmitted diseases.
		HIV
		Dermatosis and Eczema



Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26

No. of Papers: Two Papers - 100 Marks each.

Course Code: Paper I- MBOG000001 & Paper II- MBOG000002

Title: General Medicine

Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

		Physical medicine and rehabilitation (5 Marks)
		Introduction to physical medicine
		Cerebrovascular accident
		Cerebral palsy
		Musculoskeletal system
		Lower motor neuron lesion

**Note for Paper Setting:** The question paper will contain questions spread over the entire syllabus and the candidates will be required to attempt all questions.



**No. of Papers:** Two Papers - 100 Marks each.

**Course Code:** Paper I- MBOG000001 & Paper II- MBOG000002

**Title:** General Medicine

**Duration:** 3 Hours

Maximum Marks: 400

Theory: Paper I Marks – 100

Paper II Marks -100

II

### Instructions for Paper Setters: Paper-I/Paper-II

- 1) Paper-I to be set by External Examiner and Paper-II by Internal Examiner. Each Paper will carry 100marks (copy of syllabus enclosed)
- 2) All Questions are compulsory.
- 3) Attempt Questions in serial order.
- 4) Illustrate your answers with well labelled diagrams wherever necessary.

### Distributions of Marks:

#### A) Theory Paper – 100 Marks

- 1) Multiple Choice Questions (MCQ) - 20 Marks in each paper
- 2) Long Answer Questions (LAQ)/ Modified (Structured) Essay Type Questions (MEQ) - 40 Marks in each paper.
- 3) Short Answer Type Questions (SAQ) - 30 marks in each paper.
- 4) One Word Answer/Problem based Questions/Applied/Clinical Oriented Questions - 10 marks in each paper.

#### B) Clinical + Viva - 200 Marks

- 1) Long Case – 50 Marks
- 2) Short cases (2 nos.) – 25 marks each
- 3) Instruments - 40 Marks
- 4) OSCE/Spot Diagnosis – 20 Marks
- 5) Viva/Oral – 40 Marks



Course Code: Paper 1- MBOG000001 & Paper II- MBOG000002

Title: General Medicine

Duration: 3 Hours

Maximum Marks: 400

Theory: Paper I Marks – 100

Paper II Marks -100

### Pass Criteria:

#### Internal Assessment:

50% combined in theory and practical (practical = practical/clinical+ viva) (not less than 40% in each) for eligibility for appearing for University Examination.

#### University Examination:

Mandatory 50% marks separately in theory and practical (practical = practical/clinical+ viva)

(Theory = theory paper (s) only)

At least 40% marks in each paper with minimum 50% of marks in aggregate (both papers together)

Internal assessment marks are not to be added to marks of the university examinations and should be shown separately in the grade card.

#### Distribution of Marks:

Theory -2 papers (Each paper of 100 Marks))	-	200 marks.
Practical/clinical+ oral	-	200 marks
Total	-	400 marks.

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General Medicine  
Signature



Course Code: Paper 1- MBOG000001 & Paper II- MBOG000002

Title: General Medicine

Duration: 3 Hours

Maximum Marks: 400

Theory: Paper I Marks – 100

Paper II Marks -100

II

## Logbook

### Instructions:

- 1) This logbook is prepared as per the guidelines of National Medical Commission (NMC) for implementation of competency-based curriculum for phase III MBBS (3<sup>rd</sup> Professional Part-II) students in the subject of General Medicine.
- 2) Students are instructed to keep their logbook entries up to date.
- 3) Students are expected to write minimum 1 reflection on Self- Directed learning (SDL).
- 4) Students also have to write reflections on AETCOM Modules – 4.1, 4.2 & 4.3.
- 5) Reflections should be structured using the following guiding questions:
  - What happened? (What did you learn from this experience)
  - So what? (What are the applications of this learning)
  - What next? (What knowledge or skills do you need to develop so that you can handle this type of situation?)
- 6) The logbook assessment will be based on multiple factors like
  - Attendance
  - Active participation in the sessions,
  - Timely completions
  - Quality of write up of reflections
  - Overall presentation





**Course Content****Title: General Medicine (Theory & Practical/Clinical)****Course:** Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26**No. of Papers:** Two Papers - 100 Marks each.**Course Code:** Paper 1- MBOG000001 & Paper II- MBOG000002**Title:** General Medicine

Maximum Marks: 400

**Duration:** 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

**Name of the College**  
  
\_\_\_\_\_**Admission Year:** \_\_\_\_\_**CERTIFICATE**


This is to certify that,

Mr/Ms. \_\_\_\_\_

ROLL No. \_\_\_\_\_ has satisfactorily attended / completed all assignments mentioned in this logbook as per the guidelines prescribed by National Medical Commission (NMC) for phase III MBBS (3<sup>rd</sup> Prof. Part- II) competency Based Curriculum in the subject of General Medicine.

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Place: \_\_\_\_\_

**Teacher-in-Charge**  
**Professor and Head**  
**Department of General Medicine**  
**HOD Medicine**  
**Govt. Medical College**  
**Jammu.**



No. of Papers: Two Papers - 100 Marks each.

Course Code: Paper I- MBOG000001 & Paper II- MBOG000002

Title: General Medicine

Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks – 100

Paper II Marks -100

II

### Learning Resource Material

#### Books Recommended:

1. DAVIDSON
2. CLINICAL: HUTCHISON'S CLINICAL METHODS

#### Journal Articles for AETCOM:

- 1) Makoul G. Essential elements of communication in medical encounters: the Kalamazoo consensus statement. *Acad Med* 2001;76(4):390-93.
- 2) Hausberg M. Enhancing medical students' communication skills: development and evaluation of an undergraduate training program. *BMC Medical Education* 2012;12:16.

#### Reference Books:

1. HARRISON'S INTERNAL MEDICINE



## Course Content

Annexure - III

### Title: General Surgery (Theory & Practical/Clinical)

**Course: Phase III (3<sup>rd</sup> Prof. Part-II) Examination to be held in 2023-24, 24-25, 25-26**

**No. of Papers:** Two Papers-100 marks each.

**Course Code:** Paper I-MBSU000001& Paper II-MBSU000002

**Title: General Surgery**

**Duration: 3 Hours**

**Maximum Marks: 400**

**Theory : Paper I Marks-100**

**Theory : Paper II Marks -100**

**Practical/Clinical + Viva: Marks-200**

### Annexure -1

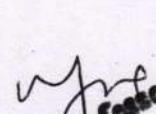
### Based on National Medical Commission's (NMC) Competency Based Undergraduate Curriculum for the Indian Medical Graduate, 2018

#### Teaching Hours Surgery and Allied Subjects

1.	<b>Total Teaching</b>	<b>1010 hours</b>
2.	Integrated Lecturers	173 hours
3.	Small group Teaching/Tutorials/ seminars	223 hours
4.	Self directed Learning	34 hours
5.	AETCOM	10 hours
6.	Clinical Posting	570 hours

#### Theory Syllabus (For theory Paper 1) Maximum Marks-100

General Surgery	
<b>Competency</b>	
<b>Topic: Metabolic response to injury</b>	
SU1.1	Describe Basic concepts of homeostasis, enumerate the metabolic changes in injury and their mediators.
SU1.2	Describe the factors that affect the metabolic response to injury.
SU1.3	Describe basic concepts of perioperative care.
<b>Topic: SHOCK</b>	
SU2.1	Describe Pathophysiology of shock, types of shock & principles of resuscitation including fluid replacement and monitoring.
SU2.2	Describe the clinical features of shock and its appropriate treatment.
SU2.3	Communicate and counsel patients and families about the treatment and prognosis of shock demonstrating empathy and care
<b>Topic: Blood and blood components</b>	
SU3.1	Describe the Indications and appropriate use of blood and blood products and complications of blood transfusion.
SU3.2	Observe blood transfusions.
SU3.3	Counsel patients and family/ friends for blood transfusion and blood donation.
<b>Topic: Burns</b>	
SU4.1	Elicit document and present history in a case of Burns and perform physical examination. Describe Pathophysiology of Burns.
SU4.2	Describe Clinical features, Diagnose type and extent of burns and plan appropriate treatment.
SU4.3	Discuss the Medicolegal aspects in burn injuries.
SU4.4	Communicate and counsel patients and families on the outcome and rehabilitation demonstrating

  
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## Course Content

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**No. of Papers:** Two Papers-100 marks each.

**Course Code:** Paper 1-MBSU000001& Paper II-MBSU000002

**Title: General Surgery**

**Duration: 3 Hours**

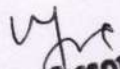
**Maximum Marks: 400**

**Theory : Paper I Marks-100**

**Theory : Paper II Marks -100**

**Practical/Clinical + Viva: Marks-200**

	empathy and care.
<b>Topic: Wound healing and wound care</b>	
SU5.1	Describe normal wound healing and factors affecting healing.
SU5.2	Elicit, document and present a history in a patient presenting with wounds.
SU5.3	Differentiate the various types of wounds, plan and observe management of wounds.
SU5.4	Discuss medico legal aspects of wounds
<b>Topic: Surgical infections</b>	
SU6.1	Define and describe the aetiology and pathogenesis of surgical Infections
SU6.2	Enumerate Prophylactic and therapeutic antibiotics Plan appropriate management
<b>Topic: Surgical Audit and Research</b>	
SU7.1	Describe the Planning and conduct of Surgical audit
SU7.2	Describe the principles and steps of clinical research in General Surgery
<b>Topic: Ethics</b>	
SU8.1	Describe the principles of Ethics as it pertains to General Surgery
SU8.2	Demonstrate Professionalism and empathy to the patient undergoing General Surgery
SU8.3	Discuss Medico-legal issues in surgical practice
<b>Topic: Investigation of surgical patient</b>	
SU9.1	Choose appropriate biochemical, microbiological, pathological, imaging investigations and interpret the investigative data in a surgical patient
SU9.2	Biological basis for early detection of cancer and multidisciplinary approach in management of cancer
SU9.3	Communicate the results of surgical investigations and counsel the patient appropriately
<b>Topic: Pre, intra and post- operative management.</b>	
SU10.1	Describe the principles of perioperative management of common surgical procedures
SU10.2	Describe the steps and obtain informed consent in a simulated environment
SU10.3	Observe common surgical procedures and assist in minor surgical procedures; Observe emergency lifesaving surgical procedures.
SU10.4	Perform basic surgical Skills such as First aid including suturing and minor surgical procedures in simulated environment
<b>Topic: Anaesthesia and pain management</b>	
SU11.1	Describe principles of Preoperative assessment.
SU11.2	Enumerate the principles of general, regional, and local Anaesthesia.
SU11.3	Demonstrate maintenance of an airway in a mannequin or equivalent
SU11.4	Enumerate the indications and principles of day care General Surgery
SU11.5	Describe principles of providing post-operative pain relief and management of chronic pain.
SU11.6	Describe Principles of safe General Surgery
<b>Topic: Nutrition and fluid therapy</b>	
SU12.1	Enumerate the causes and consequences of malnutrition in the surgical patient
SU12.2	Describe and discuss the methods of estimation and replacement of the fluid and electrolyte requirements in the surgical patient
SU12.3	Discuss the nutritional requirements of surgical patients, the methods of providing nutritional support and their complications
<b>Topic: Transplantation</b>	
SU13.1	Describe the immunological basis of organ transplantation
SU13.2	Discuss the Principles of immunosuppressive therapy. Enumerate Indications, describe surgical principles, management of organ transplantation
SU13.3	Discuss the legal and ethical issues concerning organ donation

  
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## Course Content

**Title: General Surgery (Theory & Practical/Clinical)**

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SU13.4	Counsel patients and relatives on organ donation in a simulated environment.
<b>Topic: Basic Surgical Skills</b>	
SU14.1	Describe Aseptic techniques, sterilization and disinfection.
SU14.2	Describe Surgical approaches, incisions and the use of appropriate instruments in Surgery in general.
SU14.3	Describe the materials and methods used for surgical wound closure and anastomosis (sutures, knots and needles)
SU14.4	Demonstrate the techniques of asepsis and suturing in a simulated environment
<b>Topic: Biohazard disposal</b>	
SU15.1	Describe classification of hospital waste and appropriate methods of disposal.
<b>Topic: Minimally invasive General Surgery</b>	
SU16.1	Minimally invasive General Surgery: Describe indications advantages and disadvantages of Minimally invasive General Surgery
<b>Topic: Trauma</b>	
SU17.1	Describe the Principles of FIRST AID
SU17.2	Demonstrate the steps in Basic Life Support. Transport of injured patient in a simulated environment
SU17.3	Describe the Principles in management of mass casualties
SU17.4	Describe Pathophysiology, mechanism of head injuries
SU17.5	Describe clinical features for neurological assessment and GCS in head injuries
SU17.6	Choose appropriate investigations and discuss the principles of management of head injuries
SU17.7	Describe the clinical features of soft tissue injuries. Choose appropriate investigations and discuss the principles of management.
SU17.8	Describe the pathophysiology of chest injuries.
SU17.9	Describe the clinical features and principles of management of chest injuries.
SU17.10	Demonstrate Airway maintenance. Recognize and manage tension pneumothorax, hemothorax and flail chest in simulated environment.
<b>Topic: Skin and subcutaneous tissue</b>	
SU18.1	Describe the pathogenesis, clinical features and management of various cutaneous and subcutaneous infections.
SU18.2	Classify skin tumors Differentiate different skin tumors and discuss their management.
SU18.3	Describe and demonstrate the clinical examination of surgical patient including swelling and order relevant investigation for diagnosis. Describe and discuss appropriate treatment plan.
<b>Topic: Developmental anomalies of face, mouth and jaws</b>	
SU19.1	Describe the etiology and classification of cleft lip and palate
SU19.2	Describe the Principles of reconstruction of cleft lip and palate
<b>Topic: Oropharyngeal cancer</b>	
SU20.1	Describe etiopathogenesis of oral cancer symptoms and signs of oropharyngeal cancer.
SU20.2	Enumerate the appropriate investigations and discuss the Principles of treatment.
<b>Topic: Disorders of salivary glands</b>	
SU21.1	Describe surgical anatomy of the salivary glands, pathology, and clinical presentation of disorders of salivary glands
SU21.2	Enumerate the appropriate investigations and describe the Principles of treatment of disorders of salivary glands
<b>Topic: Endocrine General Surgery: Thyroid and parathyroid</b>	
SU22.1	Describe the applied anatomy and physiology of thyroid

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## Course Content

**Title: General Surgery (Theory & Practical/Clinical)**

**Course: Phase III (3<sup>rd</sup> Prof. Part-II) Examination to be held in 2023-24, 24-25, 25-26**

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**Practical/Clinical + Viva: Marks-200**

SU22.2	Describe the etiopathogenesis of thyroidal swellings
SU22.3	Demonstrate and document the correct clinical examination of thyroid swellings and discuss the differential diagnosis and their management
SU22.4	Describe the clinical features, classification and principles of management of thyroid cancer
SU22.5	Describe the applied anatomy of parathyroid
SU22.6	Describe and discuss the clinical features of hypo - and hyperparathyroidism and the principles of their management
<b>Topic: Adrenal glands</b>	
SU23.1	Describe the applied anatomy of adrenal glands
SU23.2	Describe the etiology, clinical features and principles of management of disorders of adrenal gland
SU23.3	Describe the clinical features, principles of investigation and management of Adrenal tumors
<b>Topic: Pancreas</b>	
SU24.1	Describe the clinical features, principles of investigation, prognosis and management of pancreatitis.
SU24.2	Describe the clinical features, principles of investigation, prognosis and management of pancreatic endocrine tumours
SU24.3	Describe the principles of investigation and management of Pancreatic disorders including pancreatitis and endocrine tumors.
<b>Topic: Breast</b>	
SU25.1	Describe applied anatomy and appropriate investigations for breast disease
SU25.2	Describe the etiopathogenesis, clinical features and principles of management of benign breast disease including infections of the breast
SU25.3	Describe the etiopathogenesis, clinical features, Investigations and principles of treatment of benign and malignant tumours of breast.
SU25.4	Counsel the patient and obtain informed consent for treatment of malignant conditions of the breast
SU25.5	Demonstrate the correct technique to palpate the breast for breast swelling in a mannequin or equivalent
<b>Topic: Cardio-thoracic General Surgery- Chest - Heart and Lungs</b>	
SU26.1	Outline the role of surgery in the management of coronary heart disease, valvular heart diseases and congenital heart diseases
SU26.3	Describe the clinical features of mediastinal diseases and the principles of management
SU26.4	Describe the etiology, pathogenesis, clinical features of tumors of lung and the principles of management
<b>Topic: Vascular diseases</b>	
SU27.1	Describe the etiopathogenesis, clinical features, investigations and principles of treatment of occlusive arterial disease.
SU27.2	Demonstrate the correct examination of the vascular system and enumerate and describe the investigation of vascular disease
SU27.3	Describe clinical features, investigations and principles of management of vasospastic disorders
SU27.4	Describe the types of gangrene and principles of amputation
SU27.5	Describe the applied anatomy of venous system of lower limb
SU27.6	Describe pathophysiology, clinical features, Investigations and principles of management of DVT and Varicose veins
SU27.7	Describe pathophysiology, clinical features, investigations and principles of management of Lymph edema, lymphangitis and Lymphomas
SU27.8	Demonstrate the correct examination of the lymphatic system

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## Course Content

### Title: General Surgery (Theory & Practical/Clinical)

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**Practical/Clinical + Viva: Marks-200**

<b>Topic: Abdomen</b>	
SU28.1	Describe pathophysiology, clinical features, Investigations and principles of management of Hernias
SU28.2	Demonstrate the correct technique to examine the patient with hernia and identify different types of hernias.
SU28.3	Describe causes, clinical features, complications and principles of management of peritonitis
SU28.4	Describe pathophysiology, clinical features, investigations and principles of management of Intra-abdominal abscess, mesenteric cyst, and retroperitoneal tumors
SU28.5	Describe the applied Anatomy and physiology of esophagus
SU28.6	Describe the clinical features, investigations and principles of management of benign and malignant disorders of esophagus
SU28.7	Describe the applied anatomy and physiology of stomach
SU28.8	Describe and discuss the aetiology, the clinical features, investigations and principles of management of congenital hypertrophic pyloric stenosis, Peptic ulcer disease, Carcinoma stomach
SU28.9	Demonstrate the correct technique of examination of a patient with disorders of the stomach
SU28.10	Describe the applied anatomy of liver. Describe the clinical features, Investigations and principles of management of liver abscess, hydatid disease, injuries and tumors of the liver
SU28.11	Describe the applied anatomy of spleen. Describe the clinical features, investigations and principles of management of splenic injuries. Describe the post-splenectomy sepsis – prophylaxis
SU28.12	Describe the applied anatomy of biliary system. Describe the clinical features, investigations and principles of management of diseases of biliary system
SU28.13	Describe the applied anatomy of small and large intestine
SU28.14	Describe the clinical features, investigations and principles of management of disorders of small and large intestine including neonatal obstruction and Short gut syndrome
SU28.15	Describe the clinical features, investigations and principles of management of diseases of Appendix including appendicitis and its complications.
SU28.16	Describe applied anatomy including congenital anomalies of the rectum and anal canal
SU28.17	Describe the clinical features, investigations and principles of management of common anorectal diseases
SU28.18	Describe and demonstrate clinical examination of abdomen. Order relevant investigations. Describe and discuss appropriate treatment plan
<b>Topic: Urinary System</b>	
SU29.1	Describe the causes, investigations and principles of management of Hematuria
SU29.2	Describe the clinical features, investigations and principles of management of congenital anomalies of genitourinary system
SU29.3	Describe the Clinical features, Investigations and principles of management of urinary tract infections
SU29.4	Describe the clinical features, investigations and principles of management of hydronephrosis
SU29.5	Describe the clinical features, investigations and principles of management of renal calculi
SU29.6	Describe the clinical features, investigations and principles of management of renal tumours
SU29.7	Describe the principles of management of acute and chronic retention of urine
SU29.8	Describe the clinical features, investigations and principles of management of bladder cancer
SU29.9	Describe the clinical features, investigations and principles of management of disorders of prostate
SU29.10	Demonstrate a digital rectal examination of the prostate in a mannequin or equivalent
SU29.11	Describe clinical features, investigations and management of urethral strictures
<b>Topic: Penis, Testis and scrotum</b>	

  
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## Course Content

### Title: General Surgery (Theory & Practical/Clinical)

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**No. of Papers:** Two Papers-100 marks each.

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**Practical/Clinical + Viva: Marks-200**

SU30.1	Describe the clinical features, investigations and principles of management of phimosis, paraphimosis and carcinoma penis.
SU30.2	Describe the applied anatomy clinical features, investigations and principles of management of undescended testis.
SU30.3	Describe the applied anatomy clinical features, investigations and principles of management of epididymo-orchitis
SU30.4	Describe the applied anatomy clinical features, investigations and principles of management of varicocele
SU30.5	Describe the applied anatomy, clinical features, investigations and principles of management of Hydrocele
SU30.6	Describe classification, clinical features, investigations and principles of management of tumours of testis
<b>Orthopaedics (code: OR)</b>	
	<b>Competency</b>
	<b>Topic: Skeletal ,Trauma and Polytrauma</b>
OR1.1	Describe and discuss the Principles of pre-hospital care and Casualty management of a trauma victim including principles of triage
OR1.2	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of shock
OR1.3	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of soft tissue injuries
OR1.4	Describe and discuss the Principles of management of soft tissue injuries
OR1.5	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of dislocation of major joints, shoulder, knee, hip
OR1.6	Participate as a member in the team for closed reduction of shoulder dislocation / hip dislocation / knee dislocation
	<b>Topic: Fractures</b>
OR2.1	Describe and discuss the mechanism of Injury, clinical features, investigations and plan management of fracture of clavicle
OR2.2	Describe and discuss the mechanism of Injury, clinical features, investigations and plan management of fractures of proximal humerus
OR2.3	Select, prescribe and communicate appropriate medications for relief of joint pain
OR2.4	Describe and discuss the mechanism of injury, clinical features, investigations and principles of management of fracture of shaft of humerus and intercondylar fracture humerus with emphasis on neurovascular deficit
OR2.5	Describe and discuss the aetiopathogenesis, clinical features, mechanism of injury, investigation & principles of management of fractures of both bones forearm and Galeazzi and Monteggia injury
OR2.6	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of distal radius
OR2.7	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of pelvic injuries with emphasis on hemodynamic instability
OR2.8	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of spine injuries with emphasis on mobilisation of the patient
OR2.9	Describe and discuss the mechanism of injury, Clinical features, investigations and principle of management of acetabular fracture

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## Course Content

### Title: General Surgery (Theory & Practical/Clinical)

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**Practical/Clinical + Viva: Marks-200**

OR2.10	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of proximal femur
OR2.11	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of (a) Fracture patella (b) Fracture distal femur (c) Fracture proximal tibia with special focus on neurovascular injury and compartment syndrome
OR2.12	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of Fracture shaft of femur in all age groups and the recognition and management of fat embolism as a complication
OR2.13	Describe and discuss the aetiopathogenesis, clinical features, Investigation and principles of management of: (a) Fracture both bones leg (b) Calcaneus (c) Small bones of foot
OR2.14	Describe and discuss the aetiopathogenesis, clinical features, Investigation and principles of management of ankle fractures
OR2.15	Plan and interpret the investigations to diagnose complications of fractures like malunion, non-union, infection, compartmental syndrome
OR2.16	Describe and discuss the mechanism of injury, clinical features, investigations and principles of management of open fractures with focus on secondary infection prevention and management
<b>Topic: Musculoskeletal Infection</b>	
OR3.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of Bone and Joint infections a) Acute Osteomyelitis b) Subacute osteomyelitis c) Acute Suppurative arthritis d) Septic arthritis & HIV infection e) Spirochaetal infection f) Skeletal Tuberculosis
OR3.2	Participate as a member in team for aspiration of joints under supervision
OR3.3	Participate as a member in team for procedures like drainage of abscess, sequestrectomy/ saucerisation and arthrotomy
<b>Topic: Skeletal Tuberculosis</b>	
OR4.1	Describe and discuss the clinical features, Investigation and principles of management of Tuberculosis affecting major joints (Hip, Knee) including cold abscess and caries spine.
<b>Topic: Rheumatoid Arthritis and associated inflammatory disorders</b>	
OR5.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of various inflammatory disorder of joints
<b>Topic: Degenerative disorders</b>	
OR6.1	Describe and discuss the clinical features, investigations and principles of management of degenerative condition of spine (Cervical Spondylosis, Lumbar Spondylosis, PID)
<b>Topic: Metabolic bone disorders</b>	
OR7.1	Describe and discuss the aetiopathogenesis, clinical features, investigation and principles of management of metabolic bone disorders in particular osteoporosis, osteomalacia, rickets, Paget's disease
<b>Topic: Poliomyelitis</b>	

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## Course Content

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OR8.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management a patient with PostPolio Residual Paralysis
<b>Topic: Cerebral Palsy</b>	
OR9.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management of Cerebral palsy patient
<b>Topic: Bone Tumors</b>	
OR10.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of benign and malignant bone tumours and pathological fractures
<b>Topic: Peripheral nerve injuries</b>	
OR11.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of peripheral nerve injuries in diseases like foot drop, wrist drop, claw hand, palsies of Radial, Ulnar, Median, Lateral Popliteal and Sciatic Nerves
<b>Topic: Congenital lesions</b>	
OR12.1	Describe and discuss the clinical features, investigations and principles of management of Congenital and acquired malformations and deformities of: a. limbs and spine - Scoliosis and spinal bifida b. Congenital dislocation of Hip, Torticollis, c. congenital talipes equino varus
<b>Topic: Procedural Skills</b>	
OR13.1	Participate in a team for procedures in patients and demonstrating the ability to perform on mannequins / simulated patients in the following: i. Above elbow plaster ii. Below knee plaster iii. Above knee plaster iv. Thomas splint v. splinting for long bone fractures vi. Strapping for shoulder and clavicle trauma
OR13.2	Participate as a member in team for Resuscitation of Polytrauma victim by doing all of the following : (a) I.V. access central - peripheral (b) Bladder catheterization (c) Endotracheal intubation (d) Splintage
<b>Topic: Counselling Skills</b>	
OR14.1	Demonstrate the ability to counsel patients regarding prognosis in patients with various orthopedic illnesses like a. fractures with disabilities b. fractures that require prolonged bed stay c. bone tumours d. congenital disabilities
OR14.2	Demonstrate the ability to counsel patients to obtain consent for various orthopedic procedures like limb amputation, permanent fixations etc..
OR14.3	Demonstrate the ability to convince the patient for referral to a higher centre in various orthopedic illnesses, based on the detection of warning signals and need for sophisticated management
<b>ANAESTHESIOLOGY</b>	
<b>Competency</b>	
<b>Topic: Anesthesiology as a specialty</b>	

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## Course Content

### Title: General Surgery (Theory & Practical/Clinical)

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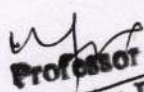
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**Theory : Paper II Marks -100**

**Practical/Clinical + Viva: Marks-200**

AS1.1	Describe the evolution of Anaesthesiology as a modern specialty
AS1.2	Describe the roles of Anaesthesiologist in the medical profession (including as a peri-operative physician, in the intensive care and high dependency units, in the management of acute and chronic pain, including labour analgesia, in the resuscitation of acutely ill)
AS1.3	Enumerate and describe the principle of ethics as it relates to Anaesthesiology
AS1.4	Describe the prospects of Anaesthesiology as a career
<b>Topic: Cardiopulmonary resuscitation</b>	
AS2.1	Enumerate the indications, describe the steps and demonstrate in a simulated environment, Basic Life Support in adults, children and neonates
AS2.2	Enumerate the indications, describe the steps and demonstrate in a simulated environment, Advanced Life Support in adults and children
<b>Topic: Preoperative evaluation and medication</b>	
AS3.1	Describe the principles of preoperative evaluation
AS3.2	Elicit, present and document an appropriate history including medication history in a patient undergoing Surgery as it pertains to a preoperative anaesthetic evaluation
AS3.3	Demonstrate and document an appropriate clinical examination in a patient undergoing General Surgery
AS3.4	Choose and interpret appropriate testing for patients undergoing Surgery
AS3.5	Determine the readiness for General Surgery in a patient based on the preoperative evaluation
AS3.6	Choose and write a prescription for appropriate premedications for patients undergoing surgery
<b>Topic: General Anaesthesia</b>	
AS4.1	Describe and discuss the pharmacology of drugs used in induction and maintenance of general anaesthesia (including intravenous and inhalation induction agents, opiate and non-opiate analgesics, depolarising and non depolarising muscle relaxants, anticholinesterases)
AS4.2	Describe the anatomy of the airway and its implications for general anaesthesia
AS4.3	Observe and describe the principles and the practical aspects of induction and maintenance of anaesthesia
AS4.4	Observe and describe the principles and the steps/ techniques in maintenance of vital organ functions in patients undergoing surgical procedures
AS4.5	Observe and describe the principles and the steps/ techniques in monitoring patients during anaesthesia
AS4.6	Observe and describe the principles and the steps/ techniques involved in day care anaesthesia
AS4.7	Observe and describe the principles and the steps/ techniques involved in anaesthesia outside the operating room
<b>Topic: Regional anaesthesia</b>	
AS5.1	Enumerate the indications for and describe the principles of regional anaesthesia (including spinal, epidural and combined)
AS5.2	Describe the correlative anatomy of the brachial plexus, subarachnoid and epidural spaces
AS5.3	Observe and describe the principles and steps/ techniques involved in peripheral nerve blocks
AS5.4	Observe and describe the pharmacology and correct use of commonly used drugs and adjuvant agents in regional anaesthesia
AS5.5	Observe and describe the principles and steps/ techniques involved in caudal epidural in adults and children
AS5.6	Observe and describe the principles and steps/ techniques involved in common blocks used in surgery (including brachial plexus blocks)
<b>Topic: Post-anaesthesia recovery</b>	
AS6.1	Describe the principles of monitoring and resuscitation in the recovery room

  
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## Course Content

### Title: General Surgery (Theory & Practical/Clinical)

**Course: Phase III (3<sup>rd</sup> Prof. Part-II) Examination to be held in 2023-24, 24-25, 25-26**

**No. of Papers:** Two Papers-100 marks each.

**Course Code:** Paper I-MBSU000001& Paper II-MBSU000002

**Title: General Surgery**

**Duration: 3 Hours**

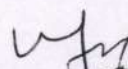
**Maximum Marks: 400**

**Theory : Paper I Marks-100**

**Theory : Paper II Marks -100**

**Practical/Clinical + Viva: Marks-200**

AS6.2	Observe and enumerate the contents of the crash cart and describe the equipment used in the recovery room
AS6.3	Describe the common complications encountered by patients in the recovery room, their recognition and principles of management
<b>Topic: Intensive Care Management</b>	
AS7.1	Visit, enumerate and describe the functions of an Intensive Care Unit
AS7.2	Enumerate and describe the criteria for admission and discharge of a patient to an ICU
AS7.3	Observe and describe the management of an unconscious patient
AS7.4	Observe and describe the basic setup process of a ventilator
AS7.5	Observe and describe the principles of monitoring in an ICU
<b>Topic: Pain and its management</b>	
AS8.1	Describe the anatomical correlates and physiologic principles of pain
AS8.2	Elicit and determine the level, quality and quantity of pain and its tolerance in patient or surrogate
AS8.3	Describe the pharmacology and use of drugs in the management of pain
AS8.4	Describe the principles of pain management in palliative care
AS8.5	Describe the principles of pain management in the terminally ill
<b>Topic: Fluids</b>	
AS9.1	Establish intravenous access in a simulated environment
AS9.2	Establish central venous access in a simulated environment
AS9.3	Describe the principles of fluid therapy in the preoperative period
AS9.4	Enumerate blood products and describe the use of blood products in the preoperative period
<b>Topic: Patient safety</b>	
AS10.1	Enumerate the hazards of incorrect patient positioning
AS10.2	Enumerate the hazards encountered in the perioperative period and steps/techniques taken to prevent them
AS10.3	Describe the role of communication in patient safety
AS10.4	Define and describe common medical and medication errors in anaesthesia
<b>RADIODIAGNOSIS</b>	
<b>Competency</b>	
RD1.1	Define radiation and the interaction of radiation and importance of radiation protection
RD1.2	Describe the evolution of Radiodiagnosis. Identify various radiological equipments in the current era
RD1.3	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder of ENT
RD1.4	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in Ob & Gy
RD1.5	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in internal medicine
RD1.6	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorders in surgery
RD1.7	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in Pediatrics

  
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## Course Content

### Title: General Surgery (Theory & Practical/Clinical)

**Course: Phase III (3<sup>rd</sup> Prof. Part-II) Examination to be held in 2023-24, 24-25, 25-26**

**No. of Papers:** Two Papers-100 marks each.

**Course Code:** Paper I-MBSU000001& Paper II-MBSU000002

**Title: General Surgery**

**Duration: 3 Hours**

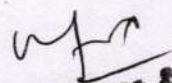
**Maximum Marks: 400**

**Theory : Paper I Marks-100**

**Theory : Paper II Marks -100**

**Practical/Clinical + Viva: Marks-200**

RD1.8	Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to common malignancies
RD1.9	Describe the role of Interventional Radiology in common clinical conditions
RD1.10	Describe the role of Emergency Radiology, miscellaneous & applied aspects, interaction with clinical departments
RD1.11	Describe preparation of patient for common imaging procedures
RD1.12	Describe the effects of radiation in pregnancy and the methods of prevention/ minimization of radiation exposure
RD1.13	Describe the components of the PC & PNDT Act and its medico legal implications
<b>DENTISTRY</b>	
<b>Competency</b>	
DE1.1	Enumerate the parts of the tooth
DE1.2	Discuss the role of causative microorganisms in the aetio-pathogenesis of dental caries
DE1.3	Identify Dental caries
DE1.4	Discuss the role of dental caries as a focus of sepsis
DE1.5	Counsel patients with respect to oral hygiene, diet and the direct bearing on systemic health
<b>Topic: Edentulous state</b>	
DE2.1	Discuss the various causes for partial /complete loss of teeth and associated structures
DE2.2	Discuss the local and systemic sequelae of the above
DE2.3	Identify complete complement of teeth and identify missing teeth
DE2.4	Enumerate common ways of restoring the edentulous state
DE2.5	Counsel patients on the importance of restoring missing teeth/tissues with respect to the benefits on oral and systemic health.
<b>Topic: Malocclusion</b>	
DE3.1	Aware of malocclusion and the tissues that cause it
DE3.2	Enumerate the impact of malocclusion on aesthetics, health
DE3.3	Identify malocclusion
DE3.4	Counsel patients with respect to correction of malocclusion and the role it might have on oral health specifically on the TMJ
<b>Topic: Oral cancer</b>	
DE4.1	Discuss the prevalence of oral cancer and enumerate the common types of cancer that can affect tissues of the oral cavity
DE4.2	Discuss the role of etiological factors in the formation of precancerous /cancerous lesions
DE4.3	Identify potential pre-cancerous /cancerous lesions
DE4.4	Counsel patients to risks of oral cancer with respect to tobacco, smoking, alcohol and other causative factors.
<b>Topic: Periodontal disease</b>	
DE5.1	Enumerate the parts of the tooth and supporting structures
DE5.2	Enumerate the common diseases that affect the periodontium and identify local and systemic causative factors
DE5.3	Identify Periodontal disease
DE5.4	Discuss the role of Periodontal disease as a focus of sepsis
DE5.5	Counsel patients with respect to oral hygiene, diet and the direct bearing on systemic health and vice versa

  
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## Course Content

### Title: General Surgery (Theory & Practical/Clinical)

Course: Phase III (3<sup>rd</sup> Prof. Part-II) Examination to be held in 2023-24, 24-25, 25-26

No. of Papers: Two Papers-100 marks each.

Course Code: Paper I-MBSU000001& Paper II-MBSU000002

Title: General Surgery

Duration: 3 Hours

Maximum Marks: 400

Theory : Paper I Marks-100

Theory : Paper II Marks -100

Practical/Clinical + Viva: Marks-200

### Syllabus: AETCOM

<b>Module 4.4:</b> Case Studies in ethics empathy and the doctor- patient relationship	
Number	Competency
1.	Demonstrate empathy in patient encounters
2.	Communicate care options to patient and family with a terminal illness in a simulated environment
<b>Module 4.5:</b> Case studies in ethics: The doctor-industry relationship	
1.	Identify and discuss and define medico-legal, socio-cultural, professional and ethical issues in physician - industry relationship

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## Course Content

### Title: General Surgery (Theory & Practical/Clinical)

Course: Phase III (3<sup>rd</sup> Prof. Part-II) Examination to be held in 2023-24, 24-25, 25-26

No. of Papers: Two Papers-100 marks each.

Course Code: Paper I-MBSU000001& Paper II-MBSU000002

Title: General Surgery

Duration: 3 Hours

Maximum Marks: 400

Theory : Paper I Marks-100

Theory : Paper II Marks -100

Practical/Clinical + Viva: Marks-200

Paper Wise Distribution of Topics for Annual Examination Phase III MBBS (3<sup>rd</sup> Professional Part-II)

Subject: General Surgery

Annexure-2

### Paper I

Section A: MCQ on all topics of Paper I (Should not exceed more than 20 percent of the total marks).

### Section B:

Topics for Paper I: Gen. Surgery
<ol style="list-style-type: none"><li>1. Metabolic response to injury</li><li>2. Shock</li><li>3. Blood and blood components</li><li>4. Burns</li><li>5. Wound healing and wound care</li><li>6. Surgical infections</li><li>7. Surgical Audit and Research</li><li>8. Ethics</li><li>9. Investigation of surgical patient</li><li>10. Pre, intra and post- operative management.</li><li>11. Anaesthesia and pain management</li><li>12. Nutrition and fluid therapy</li><li>13. Transplantation</li><li>14. Basic Surgical Skills</li><li>15. Biohazard disposal</li><li>16. Minimally invasive General Surgery</li><li>17. Vascular diseases</li><li>18. Trauma</li><li>19. Skin and subcutaneous tissue</li><li>20. Developmental anomalies of face, mouth and jaws</li><li>21. Oropharyngeal cancer</li><li>22. Disorders of salivary glands</li><li>23. Endocrine General Surgery: Thyroid and parathyroid</li><li>24. Adrenal glands</li></ol>

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## Course Content

**Title: General Surgery (Theory & Practical/Clinical)**

**Course: Phase III (3<sup>rd</sup> Prof. Part-II) Examination to be held in 2023-24, 24-25, 25-26**

**No. of Papers:** Two Papers-100 marks each.

**Course Code:** Paper I-MBSU000001& Paper II-MBSU000002

**Title: General Surgery**

**Duration: 3 Hours**

**Maximum Marks: 400**

**Theory : Paper I Marks-100**

**Theory : Paper II Marks -100**

**Practical/Clinical + Viva: Marks-200**

### Paper II

Part	Topics
A	<p><b>Gen. Surgery</b></p> <ol style="list-style-type: none"><li>1. Pancreas</li><li>2. Breast</li><li>3. Cardio-thoracic General Surgery- Chest - Heart and Lungs</li><li>4. Abdomen</li><li>5. Urinary System</li><li>6. Penis, Testis and scrotum</li></ol> <p><b>Anaesthesiology (Code: AS)</b></p> <ol style="list-style-type: none"><li>1. Anaesthesiology as a specialty</li><li>2. Cardiopulmonary resuscitation</li><li>3. Preoperative evaluation and medication</li><li>4. General Anaesthesia</li><li>5. Regional anaesthesia</li><li>6. Post-anaesthesia recovery</li><li>7. Intensive Care Management</li><li>8. Pain and its management</li><li>9. Fluids</li><li>10. Patient safety</li></ol> <p><b>Dentistry (Code: DE)</b></p> <ol style="list-style-type: none"><li>1. Dental Caries</li><li>2. Edentulous state</li><li>3. Malocclusion</li><li>4. Oral cancer</li><li>5. Periodontal disease</li></ol> <p><b>Radio-diagnosis (Code: RD)</b></p> <ol style="list-style-type: none"><li>1. Radiological investigations and Radiation safety</li></ol>

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## Course Content

### Title: General Surgery (Theory & Practical/Clinical)

Course: Phase III (3<sup>rd</sup> Prof. Part-II) Examination to be held in 2023-24, 24-25, 25-26

No. of Papers: Two Papers-100 marks each.

Course Code: Paper I-MBSU000001& Paper II-MBSU000002

Title: General Surgery

Duration: 3 Hours

Maximum Marks: 400

Theory : Paper I Marks-100

Theory : Paper II Marks -100

Practical/Clinical + Viva: Marks-200

<b>B (Orthopedics)</b>	<ol style="list-style-type: none"><li>1. Skeletal Trauma, Poly trauma</li><li>2. Fractures</li><li>3. Musculoskeletal Infection</li><li>4. Skeletal Tuberculosis</li><li>5. Rheumatoid Arthritis and associated inflammatory disorders</li><li>6. Degenerative disorders</li><li>7. Metabolic bone disorders</li><li>8. Poliomyelitis</li><li>9. Cerebral Palsy</li><li>10. Bone Tumors</li><li>11. Peripheral nerve injuries</li><li>12. Congenital lesions</li><li>13. Procedural Skills</li><li>14. Counselling Skills</li></ol>
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**Note for Paper Setting:** The question paper will contain questions spread over the entire syllabus and the candidate will be required to attempt all the questions.

### Annexure-3

#### Instruction for paper setter: Paper -I/Paper-II

1. Paper I to be set by external examiner and paper-II by internal examiner. Each paper will carry 100 marks (copy of syllabus enclosed).
2. All questions are compulsory.
3. Attempt questions in serial orders.
4. Illustrate your answers with well labelled diagrams wherever necessary.

**Paper-1:** 100 Marks (Gen. Surgery):

**Duration:** 3 Hours

#### Distribution of Marks:

1. Multiple Choice Questions: 10 marks
2. Long Answer Questions (LAQ)/ Modified (Structured) Essay type Questions: 20x2=40 marks
3. Short Answer type Questions: 50 marks
4. Problem based/Applied/Clinical Oriented Questions:
5. Short answer type question on AETCOM.

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## Course Content

### Title: General Surgery (Theory & Practical/Clinical)

**Course: Phase III (3<sup>rd</sup> Prof. Part-II) Examination to be held in 2023-24, 24-25, 25-26**

**No. of Papers:** Two Papers-100 marks each.

**Course Code:** Paper I-MBSU0000001& Paper II-MBSU0000002

**Title: General Surgery**

**Duration: 3 Hours**

**Maximum Marks: 400**

**Theory : Paper I Marks-100**

**Theory : Paper II Marks -100**

**Practical/Clinical + Viva: Marks-200**

**Paper-II: 100 Marks**

**Duration: 3 hours**

**Part A: 60 Marks**

(Gen. Surgery: 50 marks and Anesthesia, Radio-Diagnosis & Dentistry: 10 marks):

#### Distribution of Marks:

1. Multiple Choice Questions: 10 marks
2. Long Answer Questions (LAQ)/ Modified (Structured) Essay type Questions: 20 marks
3. Short Answer type Questions: 30 marks
4. Short answer type question on AETCOM

**Part B: (Orthopedics) 40 Marks**

Attempt Part A (Gen. Surgery including Anesthesia, Radio-Diagnosis and Dentistry) & Part B (Orthopedics) on separate answer sheets.

#### Practical Examination Total Marks 200

##### General Surgery

**Marks 150**

Long Case: 50 marks

2 Short cases: 40 marks

Objective Structured Clinical Examination OSCE (5 Stations): 30 marks

Viva/Oral, instruments & specimens, investigations and Logbook: 30 marks

##### Orthopedics

**Marks 50**

**Annexure-4**

#### Criteria for passing in a subject:

**Internal Assessment:** 50% combined in theory and practical (not less than 40% in each) for eligibility for appearing for University Examinations. Internal assessment marks will not be added to university examinations and should be shown separately in the grade card.

**University Examination:** A candidate shall obtain 50% marks in University conducted examination separately in Theory and Practical (practical includes: practical/ clinical and viva voce) in order to be declared as passed in that subject. In subjects that have two papers, the learner must secure at least 40% marks in each of the papers with minimum 50% of marks in aggregate (both papers together) to pass in the said subject.

*[Signature]*  
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## Course Content

### Title: General Surgery (Theory & Practical/Clinical)

Course: Phase III (3<sup>rd</sup> Prof. Part-II) Examination to be held in 2023-24, 24-25, 25-26

No. of Papers: Two Papers-100 marks each.

Course Code: Paper 1-MBSU000001& Paper II-MBSU000002

Title: General Surgery

Duration: 3 Hours

Maximum Marks: 400

Theory : Paper I Marks-100

Theory : Paper II Marks -100

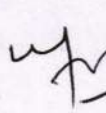
Practical/Clinical + Viva: Marks-200

Annexure-5

## Logbook

### GENERAL INSTRUCTIONS

1. The logbook is a record of the academic / co-curricular activities of the designated student, who would be responsible for maintaining his/her logbook.
2. The student is responsible for getting the entries in the logbook verified by the faculty in charge regularly.
3. Entries in the logbook will reflect the activities undertaken in the department
4. The logbook is a record of various activities by the student like:
  - Overall participation & performance
  - Attendance
  - Participation in sessions
  - Record of completion of pre-determined activities.
  - Acquisition of selected competencies
5. The logbook is the record of work done by the candidate in that department / specialty and should be verified by the college before submitting the application of the students for the University examination.
6. Reflections should be structured using the following guiding questions:
  - *What happened?* (What did you learn from this experience)
  - *So what?* (What are the applications of this learning)
  - *What next?* (What knowledge or skills do you need to develop so that you can handle this type of situation?)

  
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### Course Content

**Title: General Surgery (Theory & Practical/Clinical)**

**Course: Phase III (3<sup>rd</sup> Prof. Part-II) Examination to be held in 2023-24, 24-25, 25-26**

**No. of Papers:** Two Papers-100 marks each.

**Course Code:** Paper 1-MBSU000001& Paper II-MBSU000002

**Title: General Surgery**

**Duration: 3 Hours**

**Maximum Marks: 400**

**Theory : Paper I Marks-100**

**Theory : Paper II Marks -100**

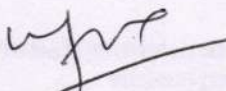
**Practical/Clinical + Viva: Marks-200**

**Annexure-6**

### CERTIFICATE

This is to certify that, Mr./Ms ..... Roll No. \_\_\_\_\_ has satisfactorily attended/completed all assignments mentioned in this logbook as per the guidelines prescribed by National Medical Commission of India, for III Professional Part II MBBS Competency Based Curriculum in the subject of General Surgery and Allied subjects.

Countersigned by  
Principal and Dean GMC JAMMU  
Date:

  
Professor and Head  
Department of Surgery

  
Professor & HOD  
Surgery Department,  
Govt. Medical College,  
Jammu.



## Course Content

### Title: General Surgery (Theory & Practical/Clinical)

**Course:** Phase III (3<sup>rd</sup> Prof. Part-II) Examination to be held in 2023-24, 24-25, 25-26

**No. of Papers:** Two Papers-100 marks each.

**Course Code:** Paper I-MBSU000001& Paper II-MBSU000002

**Title:** General Surgery

**Duration:** 3 Hours

**Maximum Marks:** 400

**Theory :** Paper I Marks-100

**Theory :** Paper II Marks -100

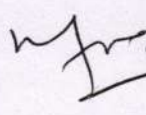
**Practical/Clinical + Viva:** Marks-200

Annexure-7

## Learning Resource Material

### Books Recommended

1. Bailey & Love SHORT PRACTICE of SURGERY by Norman Williams, P. Ronan O'Connell and Andrew W. Mc Caskee ( Latest edition 27<sup>th</sup> )
2. SRB's Manual of SURGERY by Sriram Bhat M. (Latest Edition )
3. MANUAL ON CLINICAL SURGERY by S. Das
4. Hamilton Bailey's Demonstration of Physical Signs in Clinical Surgery by John SP Lumley, Anil K. D' Cruz (Latest Edition )
5. A Textbook on SURGICAL SHORT CASES by S. Das
6. A Concise Textbook of Surgery by DAS
7. Pye's SURGICAL HANDICRAFT by J Kyle, JAR smith and D Johnston (Latest Edition )

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## Course Content

### Title: Obstetrics & Gynaecology (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

Course Code: Paper I- MBOG000001 & Paper II- MBOG000002

Title: Obstetrics & Gynaecology

Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks - 100

Paper II Marks - 100

Practical/Clinical + Viva: Marks - 200

Based on National Medical Commission's (NMC) Competency Based Undergraduate Curriculum for the Indian Medical Graduate, 2018

(Vol. 3, Page Nos. 102 - 129)

1. Total Teaching Hours	-	658
2.		
a) Integrated Lectures (Hours)	-	120
b) Small Group Teaching/Tutorials/Seminars (Hours)	-	160
c) Self-Directed Learning (Hours)	-	20
d) AETCOM (Hours)	-	10
e) Clinical Posting (Hours)	-	348

### Syllabus: Competency Based

OBSTETRICS & GYNAECOLOGY	
Number	Competency
Topic: Demographic and Vital Statistics	
OG1.1	Define and discuss birth rate, maternal mortality and morbidity
OG1.2	Define and discuss perinatal mortality and morbidity including perinatal and neonatal mortality and morbidity audit
OG1.3	Define and discuss still birth and abortion

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*Signature*  
 Associate Professor  
 Deptt. of Obst. & Gynae  
 S.M.G.S. Hospital Jammu



## Course Content

### Title: Obstetrics & Gynaecology (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

**Course Code:** Paper 1- MBOG000001 & Paper II- MBOG000002

**Title: Obstetrics & Gynaecology**

**Maximum Marks: 400**

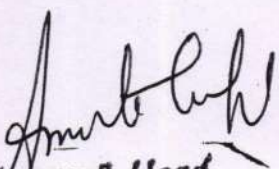
**Duration: 3 Hours**


Theory: Paper I Marks - 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
<b>Topic: Anatomy of the female reproductive tract (Basic anatomy and embryology)</b>	
OG2.1	Describe and discuss the development and anatomy of the female reproductive tract, relationship to other pelvic organs, applied anatomy as related to Obstetrics and Gynaecology
<b>Topic: Physiology of conception</b>	
OG3.1	Describe the physiology of ovulation, menstruation, fertilization, implantation and gametogenesis
<b>Topic: Development of the fetus and the placenta</b>	
OG4.1	Describe and discuss the basic embryology of fetus, factors influencing fetal growth and development, anatomy and physiology of placenta, and teratogenesis
<b>Topic: Preconception counselling</b>	
OG5.1	Describe, discuss and identify pre-existing medical disorders and discuss their management; discuss evidence-based intrapartum care
OG5.2	Determine maternal high risk factors and verify immunization status
<b>Topic: Diagnosis of pregnancy</b>	
OG6.1	Describe, discuss and demonstrate the clinical features of pregnancy, derive and discuss its differential diagnosis, elaborate the principles underlying and interpret pregnancy tests.
<b>Topic: Maternal Changes in pregnancy</b>	
OG7.1	Describe and discuss the changes in the genital tract, cardiovascular system, respiratory, haematology, renal and gastrointestinal system in pregnancy

  
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## Course Content

### Title: Obstetrics & Gynaecology (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

**Course Code:** Paper I- MBOG000001 & Paper II- MBOG000002

**Title: Obstetrics & Gynaecology**

**Maximum Marks: 400**

**Duration: 3 Hours**

Theory: Paper I Marks - 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
<b>Topic: Antenatal Care</b>	
OG8.1	Enumerate, describe and discuss the objectives of antenatal care, assessment of period of gestation; screening for high-risk factors.
OG8.2	Elicit document and present an obstetric history including menstrual history, last menstrual period, previous obstetric history, comorbid conditions, past medical history and surgical history
OG8.3	Describe, demonstrate, document and perform an obstetrical examination including a general and abdominal examination and clinical monitoring of maternal and fetal well-being;
OG8.4	Describe and demonstrate clinical monitoring of maternal and fetal well-being
OG8.5	Describe and demonstrate pelvic assessment in a model
OG8.6	Assess and counsel a patient in a simulated environment regarding appropriate nutrition in pregnancy
OG8.7	Enumerate the indications pregnancy
OG8.8	Enumerate the indications and describe the investigations including the use of ultrasound in the initial assessment and monitoring in pregnancy
<b>Topic: Complications in early pregnancy</b>	
OG9.1	Classify, define and discuss the aetiology and management of abortions including threatened, incomplete, inevitable, missed and septic
OG9.2	Describe the steps and observe/ assist in the performance of an MTP evacuation
OG9.3	Discuss the aetiology, clinical features, differential diagnosis of acute abdomen in early pregnancy (with a focus on ectopic pregnancy) and enumerate the principles of medical and surgical management
OG9.4	Discuss the clinical features, laboratory investigations, ultrasonography, differential diagnosis, principles of management and follow up of gestational trophoblastic neoplasms
OG9.5	Describe the etiology, impact on maternal and fetal health and principles of management of hyperemesis gravidarum

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## Course Content

### Title: Obstetrics & Gynaecology (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

**Course Code:** Paper 1- MBOG000001 & Paper II- MBOG000002

Title: Obstetrics & Gynaecology

Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks - 100

Paper II Marks -100

Practical/Clinical + Viva: Marks - 200

Number	Competency
<b>Topic: Antepartum haemorrhage</b>	
OG10.1	Define, classify and describe the aetiology, pathogenesis, clinical features, ultrasonography, differential diagnosis and management of antepartum haemorrhage in pregnancy
OG10.2	Enumerate the indications and describe the appropriate use of blood and blood products, their complications and management.
<b>Topic: Multiple pregnancies</b>	
OG11.1	Describe the etiopathology, clinical features; diagnosis and investigations, complications, principles of management of multiple pregnancies
<b>Topic: Medical Disorders in pregnancy</b>	
OG12.1	Define, classify and describe the etiology and pathophysiology, early detection, investigations; principles of management of hypertensive disorders of pregnancy and eclampsia, complications of eclampsia.
OG12.2	Define, classify and describe the etiology, pathophysiology, diagnosis, investigations, adverse effects on the mother and foetus and the management during pregnancy and labor, and complications of anemia in pregnancy
OG12.3	Define, classify and describe the etiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on the mother and foetus and the management during pregnancy and labor, and complications of diabetes in pregnancy
OG12.4	Define, classify and describe the etiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on the mother and foetus and the management during pregnancy and labor, and complications of heart diseases in pregnancy
OG12.5	Describe the clinical features, detection, effect of pregnancy on the disease and impact of the disease on pregnancy complications and management of urinary tract infections in pregnancy
OG12.6	Describe the clinical features, detection, effect of pregnancy on the disease and impact of the disease on pregnancy complications and management of liver disease in pregnancy
OG12.7	Describe and discuss screening, risk factors, management of mother and newborn with HIV

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**Course Code:** Paper I- MBOG000001 & Paper II- MBOG000002

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**Duration: 3 Hours**

Theory: Paper I Marks - 100

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Practical /Clinical + Viva: Marks - 200

Number	Competency
OG12.8	Describe the mechanism, prophylaxis, fetal complications, diagnosis and management of isoimmunization in pregnancy
<b>Topic: Labour</b>	
OG13.1	Enumerate and discuss the physiology of normal labor, mechanism of labor in occipito-anterior presentation; monitoring of labor including partogram; conduct of labor, pain relief; principles of induction and acceleration of labor; management of third stage of labor.
OG13.2	Define, describe the causes, pathophysiology, diagnosis, investigations and management of preterm labor, PROM and postdated pregnancy
OG13.3	Observe/ assist in the performance of an artificial rupture of membranes
OG13.4	Demonstrate the stages of normal labor in a simulated environment / mannequin and counsel on methods of safe abortion.
OG13.5	Observe and assist the conduct of a normal vaginal delivery
<b>Topic: Abnormal Lie and Presentation; Maternal Pelvis</b>	
OG14.1	Enumerate and discuss the diameters of maternal pelvis and types
OG14.2	Discuss the mechanism of normal labor, Define and describe obstructed labor, its clinical features; prevention; and management
OG14.3	Describe and discuss rupture uterus, causes, diagnosis and management.
OG14.4	Describe and discuss the classification; diagnosis; management of abnormal labor
<b>Topic: Operative obstetrics</b>	
OG15.1	Enumerate and describe the indications and steps of common obstetric procedures, technique and complications: Episiotomy, vacuum extraction; low forceps; Caesarean section, assisted breech delivery; external cephalic version; cervical cerclage

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**Papers:** Two Papers - 100 Marks each.

**Course Code:** Paper I- MBOG000001 & Paper II- MBOG000002

**Title:** Obstetrics & Gynaecology

**Maximum Marks:** 400

**Duration:** 3 Hours

**Theory:** Paper I Marks - 100

Paper II Marks - 100

**Practical /Clinical + Viva:** Marks – 200

Number	Competency
OG15.2	Observe and assist in the performance of an episiotomy and demonstrate the correct suturing technique of an episiotomy in a simulated environment. Observe/Assist in operative obstetrics cases – including - CS, Forceps, vacuum extraction, and breech delivery
<b>Topic: Complications of the third stage</b>	
OG16.1	Enumerate and discuss causes, prevention, diagnosis, management, appropriate use of blood and blood products in postpartum haemorrhage
OG16.2	Describe and discuss uterine inversion – causes, prevention, diagnosis and management.
OG16.3	Describe and discuss causes, clinical features, diagnosis, investigations; monitoring of fetal well-being, including ultrasound and fetal Doppler; principles of management; prevention and counselling in intrauterine growth retardation
<b>Topic: Lactation</b>	
OG17.1	Describe and discuss the physiology of lactation
OG17.2	Counsel in a simulated environment, care of the breast, importance and the technique of breast feeding
OG17.3	Describe and discuss the clinical features, diagnosis and management of mastitis and breast abscess
<b>Topic: Care of the new born</b>	
OG18.1	Describe and discuss the assessment of maturity of the newborn, diagnosis of birth asphyxia, principles of resuscitation, common problems.
OG18.2	Demonstrate the steps of neonatal resuscitation in a simulated environment
OG18.3	Describe and discuss the diagnosis of birth asphyxia
OG18.4	Describe the principles of resuscitation of the newborn and enumerate the common problems encountered

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Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

Course Code: Paper 1- MBOG000001 & Paper II- MBOG000002

Title: Obstetrics & Gynaecology

Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks - 100

Paper II Marks - 100

Practical/Clinical + Viva: Marks - 200

Number	Competency
<b>Topic: Normal and abnormal puerperium</b>	
OG19.1	Describe and discuss the physiology of puerperium, its complications, diagnosis and management; counselling for contraception, puerperal sterilization
OG19.2	Counsel in a simulated environment, contraception and puerperal sterilisation
OG19.3	Observe/ assist in the performance of tubal ligation
OG19.4	Enumerate the indications for, describe the steps in and insert and remove an intrauterine device in a simulated environment
<b>Topic: Medical termination of pregnancy</b>	
OG20.1	Enumerate the indications and describe and discuss the legal aspects, indications, methods for first and second trimester MTP; complications and management of complications of Medical Termination of Pregnancy
OG20.2	In a simulated environment administer informed consent to a person wishing to undergo Medical Termination of Pregnancy
OG20.3	Discuss Pre-conception and Pre Natal Diagnostic Techniques (PC&PNDT) Act 1994 & its amendments
<b>Topic: Contraception</b>	
OG21.1	Describe and discuss the temporary and permanent methods of contraception, indications, technique and complications; selection of patients, side effects and failure rate including Ocs, male contraception, emergency contraception and IUCD
OG21.2	Describe & discuss PPIUCD programme
<b>Topic: Vaginal discharge</b>	
OG22.1	Describe the clinical characteristics of physiological vaginal discharge.
OG22.2	Describe and discuss the etiology (with special emphasis on Candida, T. vaginalis, bacterial vaginosis), characteristics, clinical diagnosis, investigations, genital hygiene, management of common causes and the syndromic management
<b>Topic: Normal and abnormal puberty</b>	
OG23.1	Describe and discuss the physiology of puberty, features of abnormal puberty, common problems and their management

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## Course Content

### Title: Obstetrics & Gynaecology (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

**Course Code:** Paper I- MBOG000001 & Paper II- MBOG000002

**Title: Obstetrics & Gynaecology**

**Maximum Marks: 400**

**Duration: 3 Hours**

**Theory: Paper I Marks - 100**

**Paper II Marks - 100**

**Practical/Clinical + Viva: Marks - 200**

Number	Competency
OG23.2	Enumerate the causes of delayed puberty. Describe the investigation and management of common causes
OG23.3	Enumerate the causes of precocious puberty
<b>Topic: Abnormal uterine bleeding</b>	
OG24.1	Define, classify and discuss abnormal uterine bleeding, its aetiology, clinical features, investigations, diagnosis and management
<b>Topic: Amenorrhea</b>	
OG25.1	Describe and discuss the causes of primary and secondary amenorrhea, its investigation and the principles of management.
<b>Topic: Genital injuries and fistulae</b>	
OG26.1	Describe and discuss the etiopathogenesis, clinical features; investigation and implications on health and fertility and management of endometriosis and adenomyosis
OG26.2	Describe the causes, prevention, clinical features, principles of management of genital injuries and fistulae
<b>Topic: Genital infections</b>	
OG27.1	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of sexually transmitted infections
OG27.2	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of genital tuberculosis
OG27.3	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of HIV
OG27.4	Describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of Pelvic Inflammatory Disease
<b>Topic: Infertility</b>	
OG28.1	Describe and discuss the common causes, pathogenesis, clinical features, differential diagnosis; investigations; principles of management of infertility – methods of tubal patency, ovulation induction, assisted reproductive techniques
OG28.2	Enumerate the assessment and restoration of tubal latency
OG28.3	Describe the principles of ovulation induction

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## Course Content

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Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

**Course Code:** Paper I- MBOG000001 & Paper II- MBOG000002

**Title: Obstetrics & Gynaecology**

**Maximum Marks: 400**

**Duration: 3 Hours**

**Theory: Paper I Marks - 100**

**Paper II Marks - 100**

**Practical/Clinical + Viva: Marks -200**

Number	Competency
OG28.4	Enumerate the various Assisted Reproduction Techniques
<b>Topic: Uterine fibroids</b>	
OG29.1	Describe and discuss the etiology; pathology; clinical features; differential diagnosis; investigations; principles of management, complications of fibroid uterus
<b>Topic: PCOS and hirsutism</b>	
OG30.1	Describe and discuss the etiopathogenesis; clinical features; differential diagnosis; investigations; management, complications of PCOS
OG30.2	Enumerate the causes and describe the investigations and management of hyperandrogenism
<b>Topic: Uterine prolapse</b>	
OG31.1	Describe and discuss the etiology, classification, clinical features, diagnosis, investigations, principles of management and preventive aspects of prolapse of uterus
<b>Topic: Menopause</b>	
OG32.1	Describe and discuss the physiology of menopause, symptoms, prevention, management and the role of hormone replacement therapy.
OG32.2	Enumerate the causes of postmenopausal bleeding and describe its management
<b>Topic: Benign, Pre-malignant (CIN) and Malignant Lesions of the Cervix</b>	
OG33.1	Classify, describe and discuss the etiology, pathology, clinical features, differential diagnosis, investigations and staging of cervical cancer
OG33.2	Describe the principles of management including surgery and radiotherapy of Benign, Pre-malignant (CIN) and Malignant Lesions of the Cervix
OG33.3	Describe and demonstrate the screening for cervical cancer in a simulated environment
OG33.4	Enumerate the methods to prevent cancer of cervix including visual inspection with acetic acid (VIA), visual inspection of cervix with Lugol's iodine (VILI), pap smear and colposcopy

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**Associate Professor**  
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**S.M.G.S. Hospital Jaipur**



## Course Content

### Title: Obstetrics & Gynaecology (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

Course Code: Paper I- MBOG000001 & Paper II- MBOG000002

Title: Obstetrics & Gynaecology

Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks - 100

Paper II Marks - 100

Practical/Clinical + Viva: Marks -200

Number	Competency
<b>Topic: Benign and malignant diseases of the uterus and the ovaries</b>	
OG34.1	Describe and discuss aetiology, pathology, staging clinical features, differential diagnosis, investigations, staging laparotomy and principles of management of endometrial cancer
OG34.2	Describe and discuss the etiology, pathology, classification, staging of ovarian cancer, clinical features, differential diagnosis, investigations, principal of management including staging laparotomy
OG34.3	Describe and discuss the etiology, pathology, classification, staging, clinical features, differential diagnosis, investigations and management of gestational trophoblastic disease
OG34.4	Operative Gynaecology : Understand and describe the technique and complications: Dilatation & Curettage (D&C); EA-ECC; cervical biopsy; abdominal hysterectomy; myomectomy; surgery for ovarian tumours; staging laparotomy; vaginal hysterectomy including pelvic floor repair; Fothergill's operation, Laparoscopy; hysteroscopy; management of postoperative complications
<b>Topic: Obstetrics &amp; Gynecological skills - I</b>	
OG35.1	Obtain a logical sequence of history, and perform a humane and thorough clinical examination, excluding internal examinations (per-rectal and per-vaginal)
OG35.2	Arrive at a logical provisional diagnosis after examination.
OG35.3	Recognize situations, which call for urgent or early treatment at secondary and tertiary centres and make a prompt referral of such patients after giving first aid or emergency treatment.
OG35.4	Demonstrate interpersonal and communication skills befitting a physician in order to discuss illness and its outcome with patient and family
OG35.5	Determine gestational age, EDD and obstetric formula
OG35.6	Demonstrate ethical behavior in all aspects of medical practice.
OG35.7	Obtain informed consent for any examination / procedure
OG35.8	Write a complete case record with all necessary details
OG35.9	Write a proper discharge summary with all relevant information
OG35.10	Write a proper referral note to secondary or tertiary centres or to other physicians with all necessary details.

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## Course Content

### Title: Obstetrics & Gynaecology (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

Course Code: Paper I- MBOG000001 & Paper II- MBOG000002

Title: Obstetrics & Gynaecology

Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks - 100

Paper II Marks - 100

Practical/Clinical + Viva: Marks - 200

Number	Competency
OG35.11	Demonstrate the correct use of appropriate universal precautions for self-protection against HIV and hepatitis and counsel patients
OG35.12	Obtain a PAP smear in a simulated environment
OG35.13	Demonstrate the correct technique to perform artificial rupture of membranes in a simulated / supervised environment
OG35.14	Demonstrate the correct technique to perform and suture episiotomies in a simulated/ supervised environment
OG35.15	Demonstrate the correct technique to insert and remove an IUD in a simulated/ supervised environment
OG35.16	Diagnose and provide emergency management of antepartum and postpartum hemorrhage in a simulated / guided environment
OG35.17	Demonstrate the correct technique of urinary catheterisation in a simulated/ supervised environment
<b>Topic: Obstetrics &amp; Gynecological skills - II</b>	
OG36.1	Plan and institute a line of treatment, which is need based, cost effective and appropriate for common conditions taking into consideration (a) Patient (b) Disease (c) Socio-economic status (d) Institution/ Governmental guidelines.
OG36.2	Organise antenatal, postnatal, well-baby and family welfare clinics
OG36.3	Demonstrate the correct technique of punch biopsy of uterus in a simulated/ supervised environment
<b>Topic: Obstetrics &amp; Gynecological skills - III</b>	
OG37.1	Observe and assist in the performance of a Caesarean section
OG37.2	Observe and assist in the performance of Laparotomy
OG37.3	Observe and assist in the performance of Hysterectomy –abdominal/vaginal

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## Course Content

### Title: Obstrectics & Gynaecology (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

**Course Code:** Paper 1- MBOG000001 & Paper II- MBOG000002

**Title: Obstrectics & Gynaecology**

**Maximum Marks: 400**

**Duration: 3 Hours**

Theory: Paper I Marks - 100

Paper II Marks - 100

Practical/Clinical + Viva: Marks -200

Number	Competency
OG37.4	Observe and assist in the performance of Dilatation & Curettage(D&C)
OG37.5	Observe and assist in the performance of Endometrial aspiration -endocervical curettage (EA-ECC)
OG37.6	Observe and assist in the performance of outlet forceps application of vacuum and breech delivery
OG37.7	Observe and assist in the performance of MTP in the first trimester and evacuation in incomplete abortion
<b>Topic: Should observe</b>	
OG38.1	Laparoscopy
OG38.2	Hysteroscopy
OG38.3	Lap sterilization
OG38.4	Assess the need for and issue proper medical certificates to patients for various purposes

## Course Content

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Papers: Two Papers - 100 Marks each.

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**Title: Obstrectics & Gynaecology**

**Maximum Marks: 400**

**Duration: 3 Hours**

Theory: Paper I Marks - 100

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Paper II Marks - 100

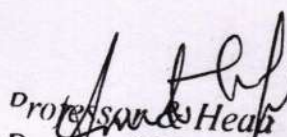
Practical/Clinical + Viva: Marks -200

**Syllabus: AETCOM**

Module 4.6: Case studies in ethics and the doctor - industry relationship	
Number	Competency
1.	Identify conflicts of interest in patient care and professional relationships and describe the correct response to these conflicts
Module 4.7: : Case studies in ethics and patient autonomy	
1.	Identify conflicts of interest in patient care and professional relationships and describe the correct response to these conflicts



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## Course Content

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Papers: Two Papers - 100 Marks each.

Course Code: Paper I- MBOG000001 & Paper II- MBOG000002

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Maximum Marks: 400

Duration: 3 Hours

Theory: Paper I Marks - 100

Paper II Marks - 100

Practical/Clinical + Viva: Marks -200

### Paper Wise Distribution of Topics for Annual Examination Phase III MBBS (3<sup>rd</sup> Professional Part-II)

#### Subject: Obstetrics & Gynaecology

Paper	Section	Topics
Paper- I	A	MCQ on all topics of the paper-I
	B	Demographic and Vital Statistics
		Anatomy of the female reproductive tract (Basic anatomy and embryology)
		Physiology of conception
		Development of the fetus and the placenta
		Preconception counseling
		Diagnosis of pregnancy
		Maternal Changes in pregnancy
		Antenatal Care
		Complications in early pregnancy
		Antepartum haemorrhage
		Multiple pregnancies
		Medical Disorders in pregnancy
		Labour
		Abnormal Lie and Presentation; Maternal Pelvis
		Operative obstetrics
		Complications of the third stage
		Lactation

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## Course Content

### Title: Obstetrics & Gynaecology (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

**Course Code:** Paper 1- MBOG000001 & Paper II- MBOG000002

**Title:** Obstetrics & Gynaecology

**Maximum Marks:** 400

**Duration:** 3 Hours

Theory: Paper I Marks - 100

Paper II Marks - 100

Practical/Clinical + Viva: Marks -200

		Care of the new born
		Normal and abnormal puerperium
		Medical termination of pregnancy
		AETCOM Module No.4.6 & 4.7
Paper-II	A	<b>MCQ on all topics of the paper-II</b>
	B	Contraception
		Vaginal discharge
		Normal and abnormal puberty
		Abnormal uterine bleeding
		Amenorrhea
		Genital injuries and fistulae
		Genital infections
		Infertility
		Uterine fibroids
		PCOS and hirsutism
		Uterine prolapse
		Menopause
		Benign, Pre-malignant (CIN) and Malignant Lesions of the Cervix
		Benign and malignant diseases of the uterus and the ovaries
		Obstetrics & Gynecological skills – I
		Obstetrics & Gynecological skills – II
		Obstetrics & Gynecological skills – III
		Should observe

**Note for Paper Setting:** The question paper will contain questions spread over the entire syllabus and the candidates will be required to attempt all questions.

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Papers: Two Papers - 100 Marks each.

**Course Code:** Paper 1- MBOG000001 & Paper II- MBOG000002

**Title: Obstetrics & Gynaecology**

**Maximum Marks: 400**

**Duration: 3 Hours**

**Theory: Paper I Marks - 100**

**Paper II Marks - 100**

**Practical/Clinical + Viva: Marks - 200**

#### Instructions for Paper Setters: Paper-I/Paper-II

- 1) Paper-I to be set by External Examiner and Paper-II by Internal Examiner. Each Paper will carry 100marks (copy of syllabus enclosed)
- 2) All Questions are compulsory.
- 3) Attempt Questions in serial order.
- 4) Illustrate your answers with well labelled diagrams wherever necessary.

#### Distributions of Marks:

##### A) Theory Paper – 100 Marks

- 1) Multiple Choice Questions (MCQ) - 20 Marks in each paper
- 2) Long Answer Questions (LAQ)/ Modified (Structured) Essay Type Questions (MEQ) - 40 Marks in each paper.
- 3) Short Answer Type Questions (SAQ) - 30 marks in each paper.
- 4) One Word Answer/Problem based Questions/Applied/Clinical Oriented Questions - 10 marks in each paper.

##### B) Clinical + Viva - 200 Marks

- 1) Long Case – 50 Marks
- 2) Short cases (2 nos.) – 25 marks each
- 3) Instruments - 40 Marks
- 4) Viva/Oral – 40 Marks
- 5) Spot Diagnosis – 20 Marks

6)

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Papers: Two Papers - 100 Marks each.

**Course Code:** Paper I- MBOG000001 & Paper II- MBOG000002

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**Maximum Marks:** 400

**Duration:** 3 Hours

Theory: Paper I Marks - 100

Paper II Marks - 100

Practical/Clinical + Viva: Marks - 200

### Pass Criteria:

#### Internal Assessment:

50% combined in theory and practical (practical = practical/clinical+ viva) (not less than 40% in each) for eligibility for appearing for University Examination.

#### University Examination:

Mandatory 50% marks separately in theory and practical (practical = practical/clinical+ viva)

(Theory = theory paper (s) only)

At least 40% marks in each paper with minimum 50% of marks in aggregate (both papers together)

Internal assessment marks are not to be added to marks of the university examinations and should be shown separately in the grade card.

#### Distribution of Marks:

Theory -2 papers (Each paper of 100 Marks))	-	200 marks.
Practical/clinical+ oral	-	200 marks
Total	-	400 marks.

*Prof. Dr. Heera*  
Deptt. of Obst. & Gynae  
S.M.G.S. Hospital

*Associate Professor*  
Deptt. of Obst. & Gynae  
S.M.G.S. Hospital Jan



## Course Content

### Title: Obstetrics & Gynaecology (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

**Course Code:** Paper 1- MBOG000001 & Paper II- MBOG000002

**Title:** Obstetrics & Gynaecology

**Maximum Marks:** 400

**Duration:** 3 Hours

**Theory:** Paper I Marks - 100

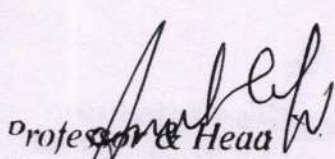
**Paper II Marks - 100**


**Practical/Clinical + Viva: Marks -200**

## Logbook

### Instructions:

- 1) This logbook is prepared as per the guidelines of National Medical Commission (NMC) for implementation of competency-based curriculum for phase III MBBS (3<sup>rd</sup> Professional Part-II) students in the subject of Obstetrics & Gynaecology.
- 2) Students are instructed to keep their logbook entries up to date.
- 3) Students are expected to write minimum 1 reflection on Self- Directed learning (SDL).
- 4) Students also have to write reflections on AETCOM Modules – 4.6 & 4.7.
- 5) Reflections should be structured using the following guiding questions:
  - What happened? (What did you learn from this experience)
  - So what? (What are the applications of this learning)
  - What next? (What knowledge or skills do you need to develop so that you can handle this type of situation?)
- 6) The logbook assessment will be based on multiple factors like
  - Attendance
  - Active participation in the sessions,
  - Timely completions
  - Quality of write up of reflections
  - Overall presentation

  
Professor & Head  
Deptt. of Obst & Gynae  
S.M.G.S. Hospital, Jammu

  
Associate Professor  
Deptt. of Obst. & Gynae  
S.M.G.S. Hospital Jammu



## Course Content

### Title: Obstrectics & Gynaecology (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

**Course Code:** Paper I- MBOG000001 & Paper II- MBOG000002

**Title:** Obstrectics & Gynaecology

**Maximum Marks:** 400

**Duration:** 3 Hours

Theory: Paper I Marks - 100

Paper II Marks - 100

Practical/Clinical + Viva: Marks -200

**Name of the College**

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**Admission Year:** \_\_\_\_\_

## CERTIFICATE

This is to certify that,

Mr/Ms. \_\_\_\_\_

ROLL No. \_\_\_\_\_ has satisfactorily attended / completed all assignments mentioned in this logbook as per the guidelines prescribed by National Medical Commission (NMC) for phase III MBBS (3<sup>rd</sup> Prof. Part- II) competency Based Curriculum in the subject of Obstrectics & Gynaecology.

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Place: \_\_\_\_\_

**Teacher-in-Charge**

**Professor and Head**

**Department of Obstrectics & Gynaecology.**

Professor & Head  
Deptt of Obst & Gynaecology  
S.M.G.S. Hospital, Jamnagar

Associate Professor  
Deptt. of Obst. & Gynaecology



## Course Content

### Title: Obstetrics & Gynaecology (Theory & Practical/Clinical)

Course: Phase III MBBS (3<sup>rd</sup> Professional Part-II) Examination to be held in 2023-24, 24-25, 25-26 No. of

Papers: Two Papers - 100 Marks each.

**Course Code:** Paper I- MBOG000001 & Paper II- MBOG000002

**Title:** Obstetrics & Gynaecology

**Maximum Marks:** 400

**Duration:** 3 Hours

Theory: Paper I Marks - 100

Paper II Marks - 100

Practical/Clinical + Viva: Marks - 200

### Competency Based Medical Education

Phase III MBBS (3<sup>rd</sup> Prof. Part- II)

Subject: Obstetrics & Gynaecology

**Learning Resource Material**

### Books Recommended:

- 1) **Holland and Brews** - Manual of Obstetrics.
- 2) **Shaw's textbook of Gynaecology** – Howkins and Bourne; V G Padubidri: Shirish N Daftary- Elsevier.
- 3) **DC Dutta's Textbook of Obstetrics** - Hiralal Konar.
- 4) **DC Dutta's Textbook of Gynaecology** - Hiralal Konar.

### Journal Articles for AETCOM:

- 1) Makoul G. Essential elements of communication in medical encounters: the Kalamazoo consensus statement. *Acad Med* 2001;76(4):390-93.
- 2) Hausberg M. Enhancing medical students' communication skills: development and evaluation of an undergraduate training program. *BMC Medical Education* 2012;12:16.

### Reference Books:

- 1) **Textbook of Obstetrics** - Dr. J.B. Sharma.
- 2) **Clinical Cases in Obs & Gynae**- N. Hephzibah Kirubamani, Elsevier Science.
- 3) **Essential of Gynaecology** - Lakshmi Seshadri.
- 4) **Essential of Obstetrics** - Lakshmi Seshadri; Geeta Arjun.