

DPU

Dr. D. Y. PATIL VIDYAPEETH, PUNE
(DEEMED UNIVERSITY)

SYLLABUS
for
III - MBBS
(Part - II)

2014-15

INDEX

1	General Medicine	1
2	Pediatrics	47
3	Pulmonary Medicine	64
4	Psychiatry	70
5	Skin & VD	74
6	General Surgery	79
7	Obstetrics and Gynaecology	95
8	Orthopaedics	108
9	Anaesthesiology	124
10	Radiology	129

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GENERAL SURGERY

(1) GOAL

The broad goal of teaching of undergraduate students in Surgery is to produce graduates capable of delivering efficient first contact surgical care.

(2) OBJECTIVES:

2.1 Knowledge

At the end of the course the students shall be able to:

- a. Describe aetiology, pathophysiology, principles of diagnosis and management of common surgical problems including emergencies in adults and children.
- b. Define indications and methods for fluid and electrolyte replacement therapy including blood transfusion;
- c. Define asepsis, disinfection and sterilization and recommend judicious use of antibiotics;
- d. Describe common malignancies in the country and their management including prevention;
- e. Enumerate different types of anesthetic agents, their indications, mode of administration, contraindications and side effects.
- f. Diagnose common surgical conditions both acute and chronic, in adult and children

2.2 Skills

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

- a. Plan various laboratory tests for surgical conditions and interpret the results;
- b. Identify and manage patients of haemorrhagic, septicaemic and other types of shock;
- c. Be able to maintain patient air-way and resuscitate;

- i. A critically injured patient:
 - ii. Patient with cardio respiratory failure.
 - iii. Drowning case.
- d. Monitor patients of head, chest, spinal and abdominal injuries, both in adults and children;
- e. Provide primary care for a patient of burns;
- f. Acquire principles of operative surgery, including pre-operative, operative and postoperative care and monitoring.
- g. Treat open wounds including preventive measures against tetanus and gas gangrene;
- h. Diagnose neonatal and paediatric surgical emergencies and provide sound primary care before referring the patient to secondary / tertiary centres;
- i. Identify congenital anomalies and refer them for appropriate management.

He / she shall have observed / assisted performed the following :

- i. Incision and drainage of abscess
- ii. Debridement and suturing open wound
- iii. Venesection.
- iv. Excision of simple cyst and tumours
- v. Biopsy of surface malignancy
- vi. Catheterisation
- vii. Nasogastric incubation
- viii. Circumcision
- ix. Meatotomy
- x. Vasectomy
- xi. Peritoneal and pleural aspirations;
- xii. Diagnostic Proctoscopy
- xiii. Hydrocele operations
- xiv. Endotracheal intubation;
- xv. Tracheostomy
- xvi. Chest tube insertion.

(3) INTEGRATION:

The undergraduate teaching in surgery shall be integrated at various stages with different pre and para and other clinical departments.

SYLLABUS FOR MBBS COURSE IN GENERAL SURGERY

Semester	Lectures	Tutorials	Demonstration	Clinics
3 rd Sem	-	-	-	6 weeks
4 th Sem	1 (16 hours)	-	-	4 weeks
5 th Sem	-	-	-	-
6 th Sem	2 (32 hours)	2 (32 hours)	16 hours	4 weeks
7 th Sem	2 (32 hours)	-	-	4 weeks
8 th Sem	3 (48 hours)	2 (32 hours)	16 hours	4 weeks
9 th Sem	2 (32 hours)	2 (32 hours)	12 hours	4 weeks
	(160 hours)	(96 hours)	(44 hours)	26 weeks

Lectures – (List enclosed)

4 th Sem	General Surgery Part I
6 th Sem	General Surgery Part II + Head, Face, Neck + Breast + Endocrine + Neurosurgery + Plastic Surgery
7 th Sem	GIT Part I + Hepatobiliary + Cardiothoracic Surgery + Paediatric Surgery
8 th Sem	GIT Part II + GUT + Tropical Surgery
9 th Sem	Recent Advances + Revision Lectures

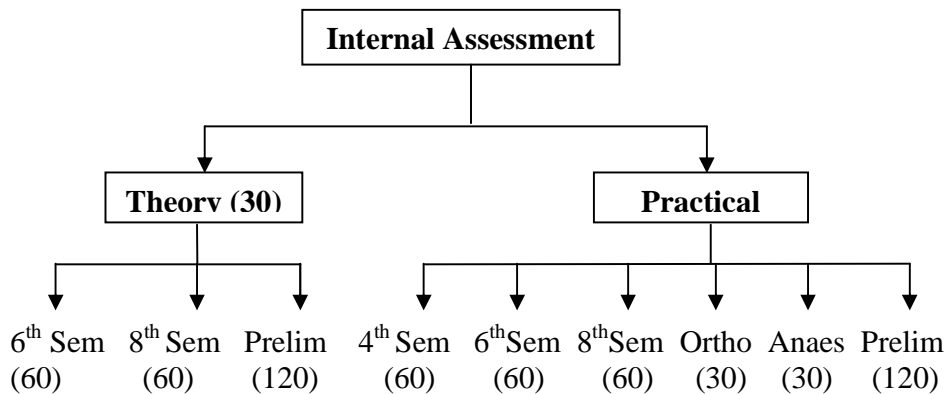
TUTORIALS –

6 th Sem	Operative Surgery + Instruments
8 th Sem	Surgical Pathology + X-Ray
9 th Sem	Revision

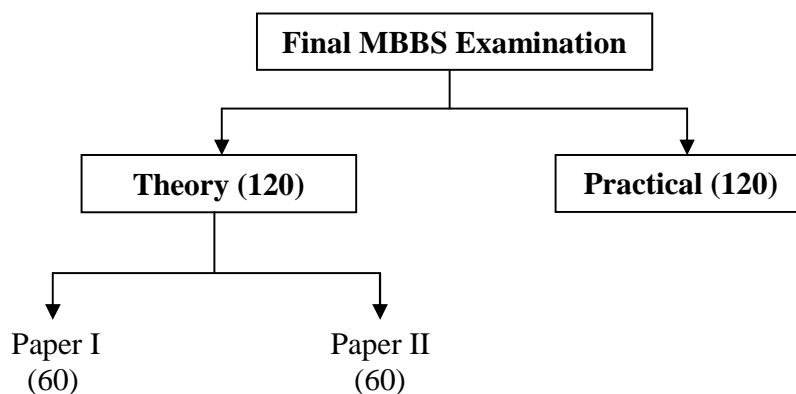
3RD SEMESTER CLINICAL POSTING – 4 WEEKS –

- 2 Weeks - One Lecturer daily for 2 weeks
- 4 Weeks - Ward Posting
(Orientation programme Lecture – on lecture daily 12 days)

ASSESSMENT



- Marks of Internal Assessment will be sent to the University before the commencement of Theory examination.
- Passing in internal assessment (min 35%) will be prerequisite for appearing for final examination.
- Combined theory and practical marks will be considered for passing in Internal Assessment.



THEORY (120 MARKS)

**Paper I - 3 hours *
60 marks**

Section A (15)	Section B (25)	Section C (20)
<ul style="list-style-type: none"> • 30 MCQs (½ Mark each) • Single response type • (24 MCQs – Surgery + 6 MCQs – Ortho) 	<ul style="list-style-type: none"> • General Surgery • Head,Face & Neck • Breast • Endocrine • Trauma • 2 LAQs (8 marks each) = 16 • 3 SAQs (3 out of 4) (3 marks each) = 09 	<p align="center">Orthopaedics</p> <ul style="list-style-type: none"> • 1 LAQs (8 marks) • 4 SAQs (4 out of 5) (3 marks each)=12

*** Time for Section A – 30 minutes**

Section B & Section C – 2 ½ hours

Section A will be given to candidates at the beginning of the examination. After 30 minutes, Section A (Question paper + Answer Sheet) will be collected. Section B and Section C Paper will then be handed over to candidates.

**Paper II - 3 hours *
60 marks**

Section A (15)	Section B (25)	Section C (20)
<ul style="list-style-type: none"> • 30 MCQs • ½ Marks each • Single response type (24 MCQs – GIT/GUT/ Hepatobiliary /Spleen MCQs – Allied (Plastic/CVTS/Paed/Radio /Anesthesiology)	<ul style="list-style-type: none"> • GIT • Hepatobiliary • Spleen <ul style="list-style-type: none"> • 2 LAQs (8 marks each) = 16 • 3 SAQs (3 out of 4) (3 marks each) = 09 	<ul style="list-style-type: none"> • GUT • Allied – (Plastic/CVTS/Paed/ Radio/Anesthesiology) <ul style="list-style-type: none"> • 1 LAQ (8 marks) • 4 SAQs (4 out of 5) (3 marks each)=12

*** Time for Section A – 30 minutes**

Section B & Section C – 2 ½ hours

Section A will be given to candidates at the beginning of the examination. After 30 minutes, Section A (Question paper + Answer Sheet) will be collected. Section B and Section C Paper will then be handed over to candidates.

PRACTICAL (120 MARKS)

Clinical (100)	Long Case (Surgery)	50 Marks
	Short Case I (Surgery)	25 Marks
	Short Case II (Orthopaedics)	25 Marks

- Time for Long Case - 40 minutes
- Time for short Case - 20 minutes each

Viva - Viva I (10 marks) - Surgical Pathology + Instruments + Tubes Catheters + Operative Surgery + Radiology

Viva II- (10 marks) Radiology + Orthopaedics

Clinical and Viva examinations will be carried by a pair of examiners. 2 out of 6 practical examiners will be from Orthopaedics (1 Internal + 1 External).

RESULT

Passing will be in three separate headings –

Exam	Total	Minimum marks for passing
Theory + Viva	140 (120 + 20)	70
Clinical	100	50
Internal Assessment	60	30
Total	300	150

4th Semester – Lecture Programme

Sr. No	Topic
1	Introduction / History of Surgery / Acute Infections
2	Wound Healing
3	Haemostasis / Haemorrhage / Blood Transfusion
4	Chronic Infections
5	Shock
6	Burns
7	Fluid Electrolyte Balance / Disorders
8	Acid Base Balance / Disorders
9	Gas Gangrene
10	Neoplasia

Sr. No	Topic
11	Surgical Nutrition
12	Nosocomial Infections
13	Tetanus
14	Hand Infections
15	Sterilization
16	OT techniques / Preoperative and Postoperative Care

6th Semester – Lecture Programme

Sr. No	Topic
1	HIV & Surgeon
2	Benign Breast Diseases
3	Ca Breast (Two Lectures)
4	Diabetic Foot
5	Diseases of Veins (Two Lectures)
6	Neck Swellings (Two Lectures)
7	Diseases of Lymphatics
8	Disease of Arteries (Two Lectures)
9	Oral Malignancy
10	Thyroid – Anatomy/Physio/Investigations
11	Benign Disorders of Thyroid
12	Cleft Lip / Cleft Palate
13	Thyroid Malignancies
14	Peripheral Nerve Injuries
15	Hyperparathyroidism
16	Head Injury
17	Polytrauma (Two Lectures)
18	Skin Grafting
19	Jaw Tumours
20	Salivary Gland Tumours / Sialoadenitis
21	CNS Tumours
22	Adrenals Gland – Hyper / Hypofunction
23	Principles of Minimally Invasive Surgery
24	Principles of Radiotherapy
25	Maxillofacial Injuries
26	Congenital Disorders – Hydrocephalus, Spina Bifida

7th Semester – Lecture Programme

Sr. No	Topic
1	Oesophagus - Anatomy / Physiology / Investigations / Causes of Dysphagia
2	Liver –Anatomy / Physiology / Investigations
3	GERD
4	Liver Abscess
5	Oesophageal Motility Disorders
6	Liver Trauma
7	Carcinoma Oesophagus
8	Liver Tumours
9	Stomach – Anatomy / Physiology / CHPS
10	Hydatid cyst of Liver
11	Peptic Ulcer
12	Peptic ulcer – Complication & Management
13	Extra Hepatic Biliary Apparatus – Anatomy / Physiology / Investigations
14	Obstructive Jaundice
15	Carcinoma Stomach
16	Cholelithiasis
17	Upper GI Bleed- Aetiology and Principles of Management
18	Cholecystitis
19	Intestinal Tuberculosis
20	Carcinoma Gall Bladder / Choledochal cyst
21	Peritonitis – Aetiology, Principles of Management
22	Intraperitoneal Abscesses
23	Spleen – Anatomy / Splenomegaly / Splenectomy
24	Chest Injuries
25	Portal Hypertension
26	Cardiac Arrest / Resuscitation
27	Acute Pancreatitis
28	Principles of Surgery of Ischaemic Heart disease
29	Pseudocyst of Pancreases & Chronic Pancreatitis
30	Pancreatic Tumours

Sr. No	Topic
31	Congenital Heart Diseases
32	Revision

8th Semester – Lecture Programme

Sr. No	Topic
1	Anatomy of Anterior Abdominal wall & Diaphragm
2	Hirschsprung's Disease
3	Incisional Hernia / Epigastric Hernia
4	Haemorrhoids / Fistula in Ano / Fissure in Ano
5	Inguinal Hernia
6	Lower GI Bleed – Aetiology & Principles of management
7	Meckel's Diverticulum / Meconium ileus
8	Atresia – Oesophageal / Intestinal, T-O Fistula
9	Intestinal Obstruction I
10	Biliary Atresia / Congenital Diaphragmatic Hernia
11	Acute Abdomen – D/D & Principles of management
13	Abdominal Tuberculosis – Aetiopathology & Principles of management
14	Acute Appendicitis
15	Inflammatory Bowel Disease
16	Phimosis / Paraphimosis
17	Surgical Consideration in Enteric Fever / Ascariasis
18	Filariasis / Madura Foot
19	Carcinoma Colon
20	Diverticular Disease / Colostomy
21	Skin Malignancies
22	Surgical Anatomy of Rectum & Anal Canal
23	Anorectal Anomalies
24	Rectal Prolapse / Anorectal Abscesses
25	Principles of Organ Transplantation

26	Femoral Hernia, Umbilical Hernia & Other Hernias
27	Intestinal Obstruction
28	Adrenal Tumours
29	Surgical Anatomy, Embryology and Developmental Anomalies of GUT
30	Symptoms and Investigations of urinary tract
31	Urinary Tract Infection
32	Pathophysiology of urinary tract obstruction
33	PUJ Obstruction
34	Urolithiasis
35	Renal Tuberculosis
36	Renal Tumours
37	Carcinoma Urinary Bladder
38	Ectopia Vesicae / Posterior Urethral Valves / Hypospadias
39	Carcinoma Penis
40	BEP
41	Carcinoma Prostate
42	Undescended Testis / Torsion Testis
43	Testicular Tumours
44	Hydrocoele / Varicocele
45	Urodynamic Studies / Neurogenic Bladder
46	Retention of Urine – Aetiology & Principles of management
47	Acute Renal Failure
48	Renal Transplant
49	GUT Trauma
50	Stricture Urethra

9th Semester - Lecture Programme

Sr. No	Topic
1	LASER in Surgery
2	Staplers in Surgery
3	Universal Safety Precautions
4	Revision Lectures

6th Semester – Tutorial Programme

Sr. No	Topic
1	Instruments - I
2	Incision and Drainage / Debridement / CLW suturing
3	Instruments – II
4	Venesection / Circumcision
5	Instruments – III
6	Cyst excision / Biopsies
7	Instruments – IV
8	FNAC / Pleural Tap/ Ascitic Tap
9	Instruments – V
10	Intercostal Drainage
11	Instruments – VI
12	Tracheostomy
13	Foley's catheter/ Nelaton's catheter
14	Suprapubic cystostomy
15	Ryles tube / Infant feeding tube
16	Preoperative care
17	Simple Rubber catheter / Flatus tube
18	Postoperative care
19	Dressing Trolley
20	Surgeries for Hernia

Sr. No	Topic
21	Bandages
22	Surgeries for Hydrocoele
23	I/V Set, Intracath, Scalp-Vein, 3 way
24	Resuscitation
25	Blood Transfusion
26	Sutures & Needles – I
27	Use of Drains
28	Sutures & Needles - II
29	Sterilization
30	Arterial disorders
31	Acute Infections
32	Venous disorders
33	Chronic Infections

8th Semester – Tutorial Programme

Sr. No	Topic
1	Radiology – I (GIT)
2	Radiology – II (GUT)
3	Radiology – III (Miscell)
4	Radiology – IV (GUT)
5	Short Procedures - I
6	Instruments – I (Urology)
7	Short Procedures – II
8	Instruments – II (Urology)
9	Instruments – III
10	Short Procedures – III (Urology)
11	Instruments – IV
12	Short Procedures – IV (Urology)

13	Short Procedures – V
14	Tube & Catheters – I (Urology)
15	Short Procedures – VI
16	Tube & Catheters – II (Urology)
17	Tube & Catheters – III
18	Surgical Pathology I (GUT)
19	Tube & Catheters – IV
20	Surgical Pathology II (GUT)
21	Surgical Pathology III (GIT)
22	Retention of Urine
23	Surgical Pathology IV (GIT)
24	Genitourinary Trauma
25	Surgical Pathology V (GIT)
26	Principles of Urinary Diversion
27	Surgical Pathology VI(Miscell)
28	Urolithiasis
29	Resuscitation
30	Upper GI Bleed
31	Lower GI Bleed
32	Scans in Urology
33	Portal Hypertension
34	Endoscopy in Urology
35	Obstructive Jaundice
36	Acute & Chronic Infections

9th Semester – Tutorial Programme

Sr. No	Topic
1	Revisions

Examination Theory: 120 marks

SURGERY PAPER I

Total marks: 60

Duration: 3 hours

Section A: 38 marks

- Q 1. One Line Answer Questions (8 out of 10) 8x1= 8 marks
Q 2. Structured Long Answer Questions (2 out of 3) 2x9= 18 marks
Q 3. Short Answer Questions (3 out of 5) 3x4= 12 marks

Section B: 22 marks (ORTHOPAEDICS)

- Q 4. One Line Answer Questions (5 out of 7) 5x1= 5 marks
Q 5. Structured Long Answer Question (1 out of 2) 1x9= 9 marks
Q 6. Short Answer Questions (2 out of 3) 2x4= 8 marks

Total 60 Marks

SURGERY PAPER II

Total marks: 60

Duration: 3 hours

Section A: 30 marks

Q 1. One Line Answer Questions (12 out of 14) 12x1= 12 marks

Q 2. Structured Long Answer Questions (2 out of 3) 2x9= 18marks

Section B: 30 marks

Q 3. Short Answer Questions (6 out of 8) 6x5= 30marks

Total 60 Marks

Practicals- 120 marks

Clinical:

100 marks

- 1 Long Case - 50 marks
- 1 Short Case (Surgery) - 25 marks
- 1 Short Case (Orthopaedics) - 25 marks

Viva:

20 marks

- Table I – Operative Surgery, Instruments, Tubes Catheters (5 marks)
- Table II – Surgical Pathology (5 marks)
- Table III – Radiology (5 marks)
- Table IV – Orthopaedics (5 marks)