



Dr. D. Y. PATIL VIDYAPEETH, PUNE
(Deemed to be University)

**Syllabus for
III – MBBS
(Part - II)**

2014 - 15
(Amended / Revised upto July 2019)



Dr. D.Y. PATIL VIDYAPEETH, PUNE
(Deemed to be University)

(Re-accredited by NAAC with a CGPA of 3.62 on a four point scale at 'A' Grade)
(An ISO 9001 : 2015 Certified University)

Dr. A. N. Suryakar
Registrar

Ref. No. : DPU/875-VII/2019

Date : 11/09/2019

NOTIFICATION

Whereas in pursuance of the following decisions taken by the Board of Management, it is hereby notified to all concerned that the **"Syllabus for III M.B.B.S. Part-I and Part II-2014-15"** is revised upto July 2019 and hereby published.

- Changes in syllabus for UG and PG in General Medicine, Pulmonary Medicine and General Surgery vide **Resolution No. BM-07-(iii)-4 dated 28th January, 2014.**
- Updation in UG and PG syllabus of General Medicine, **Obstetrics & Gynecology, Orthopedics, Anaesthesiology, ENT and Ophthalmology** vide **Resolution No. BM-04(i)-15, dated 31st March, 2015.**
- Structure format for evolution of History taking for 3rd Semester in General Medicine vide **Resolution No. BM-26(v)-15, dated 29th December, 2015.**
- Replacement of the term "one line answer by one Sentence answer in the Clinical subjects" vide **Resolution No. BM-26(ix)-15, dated 29th December, 2015**
- Introduction of Bioethical aspects in various chapters of all subjects vide **Resolution No. BM-26(xi)-15, dated 29th December, 2015**
- Modifications in UG Syllabus of Psychiatry vide **Resolution No. BM-17(ix)-16, dated 22nd September, 2016.**
- Consideration of weightage to the journal marks in internal assessment of III MBBS Clinical Subjects as continuous day to day assessment vide **Resolution No. BM-05(ii)-17, dated 7th April, 2017.**
- Conduct of prelim exam of 3rd MBBS only after the end of clinical postings, vide **Resolution No. BM-38(ix)-17, dated 27th December, 2017.**
- Enhancement of UG syllabus of General Medicine subject vide **Resolution No. BM-16(x)-18, dated 21st July, 2018.**
- Conduct of P.B.L. classes in E-library in the Department of Paediatrics vide **Resolution No. BM-35(ii)-18, dated 12th October, 2018.**
- Graduate Attributes, Programme Outcomes (POs), Course Outcomes (Cos) and gap analysis for all courses of UG and PG Programmes for Para-Clinical and **Surgical Subjects** vide **Resolution No. BM-10(vii)-19 dated, 12th April, 2019.**
- Interdisciplinary subjects (for **Surgical Subjects**) of M.B.B.S, M.D./M.S. and Super-specialty (D.M./M.Ch.) Programs under the Faculty of Medicine vide **Resolution No. BM-10(viii) dated 12th April, 2019.**



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- Graduate Attributes, Programme Outcomes (POs), Course Outcomes (Cos) outcome analysis of Pos and Cos and mapping with objectives for all courses of UG and PG Programmes of Pre-Clinical and **Medicine** Subjects under the Faculty of Medicine vide **Resolution No. BM-27(x)-19 dated 30th July, 2019.**
- Interdisciplinary subjects (**for Medicine Subjects**) of M.B.B.S, M.D./M.S. and Super-specialty (D.M./M.Ch.) Programs under the Faculty of Medicine vide **Resolution No. BM-27(xi) dated 30th July, 2019.**

The “**Syllabus for III M.B.B.S. Part-I and Part II– 2014-15**” Revised upto July 2019 will be useful to all the concerned. This will come into force with immediate effect.




(Dr. A. N. Suryakar)
Registrar

Copy to:

1. PS to Chancellor for kind information of Hon'ble Chancellor, Dr. D. Y. Patil Vidyapeeth, Pune.
2. PS to Vice Chancellor for kind information of Hon'ble Vice Chancellor, Dr. D. Y. Patil Vidyapeeth, Pune.
3. The Dean, Dr. D. Y. Patil Medical College Hospital & Research Centre, Pimpri, Pune
4. The Controller of Examinations, Dr. D. Y. Patil Vidyapeeth, Pune.
5. Director (IQAC), Dr. D. Y. Patil Vidyapeeth, Pune.
6. Web Master for uploading on Website.

**MAPPING OF PROGRAMME OUTCOMES [POs] AND COURSE
OUTCOMES [COs] OF MBBS PROGRAMMES**

Course Code	Course Title
MB401	General Medicine & Allied
MB402	General Surgery & Allied
MB403	Obstetrics & Gynaecology
MB404	Paediatrics

General Surgery and allied: (MB 402)		
CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
402.1	Describe aetiology, pathophysiology, principles of diagnosis and management of common surgical problems including emergencies in adults and children.	PO1,PO2, PO4,PO5, PO7,PO9
402.2	Define indications and methods for fluid and electrolyte replacement therapy including blood transfusion;	PO1,PO2, PO4,PO5, PO7, PO9
402.3	Define asepsis, disinfection and sterilization and recommend judicious use of antibiotics;	PO1,PO2,PO3 ,PO4,PO5, PO6,PO7,PO9
402.4	Diagnose common surgical conditions both acute and chronic, in adult and children	PO1,PO2, PO3,PO5, PO7, PO9
402.5	Plan various laboratory tests for surgical conditions and interpret the results;	PO1,PO2, PO3,PO4, PO5,PO6,PO9
402.6	Identify and manage patients of hemorrhagic, septicæmic and other types of shock	PO1,PO2,PO4 ,PO5 ,PO9
402.7	Be able to maintain patient air-way and resuscitate any critically ill patient	PO1,PO2, PO3,PO5, PO6,PO7,PO9
402.8	Monitor patients of head, chest, spinal and abdominal injuries, both in adults and children;	PO1,PO2, PO3,PO5,PO6 ,PO7,PO9
402.9	Acquire principles of operative surgery, including pre-operative, operative and postoperative care and monitoring.	PO1,PO2, PO3,PO5, PO6, PO9
402.1	Treat open wounds including preventive measures against tetanus and gas gangrene;	PO1,PO2, PO5,PO6, PO7,PO8,PO9
402.11	Diagnose neonatal and pediatric surgical emergencies and provide sound primary care before referring the patient to secondary / tertiary centres;	PO1,PO2,PO3 ,PO5,PO6, PO7,PO9
402.12	Recognize the importance of clinical Orthopaedics & diagnose and manage majority of the conditions in clinical Orthopaedics on the basis of clinical assessment & investigations	PO1,PO2,PO3 ,PO4,PO5, PO6,PO7, PO8, PO9

General Surgery and allied: (MB 402)		
CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
401.13	Carry out Bag Mask Ventilation and Basic Life Support(COLS)	PO1,PO2,PO3,PO5,PO6,PO7,PO9
401.14	At the end of the course student should know basic principles of various imaging modalities to diagnose various diseases and basic principles of recent advances	PO1,PO2,PO3,PO4,PO5,PO7,PO8,PO9

**GENERAL
SURGERY**

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, septicæmic and other types of shock;
- c. Be able to maintain patient air-way and resuscitate;
 - i. A critically injured patient;
 - ii. Patient with cardiorespiratory 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 centers;
- 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.

(4) LEARNING METHODS:

Following teaching and learning methods are used in Undergraduate Teaching.

4.1 Small Board Teaching

4.2 Clinics

4.3 Tutorials

4.4 Case Based Learning

4.5 Symposium

4.6 Skill Lab

(5) SYLLABUS :

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

(6) LECTURES, TUTORIAL (TOTAL NUMBER, TOPICS) IN EACH SEMESTER (LIST ENCLOSED)

Lecture -

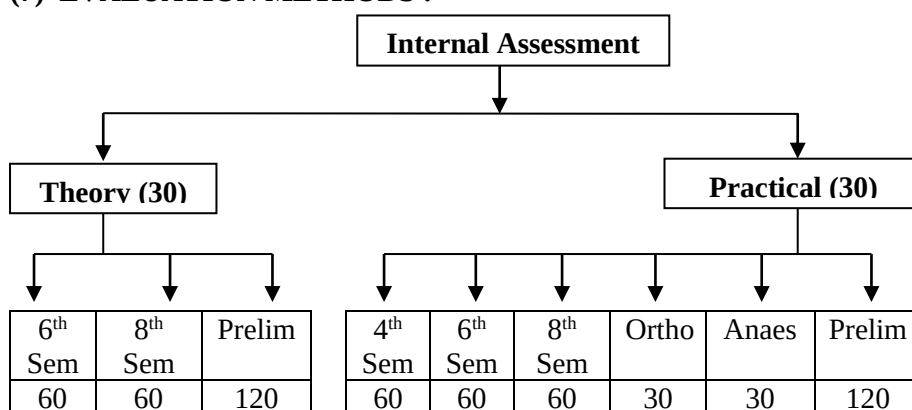
4 th Sem	General Surgery Part I
6 th Sem	General Surgery Part II + Head, Face, Neck + Breast + Endocrine + Neurosurgery + Plastic Surgery
7 th Sem	GIT Part I + Hepatobiliary + Cardiothoracic Surgery + Paediatric Surgery
8 th Sem	GIT Part II + GUT + Tropical Surgery
9 th Sem	Recent Advances + Revision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

Tutorials

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

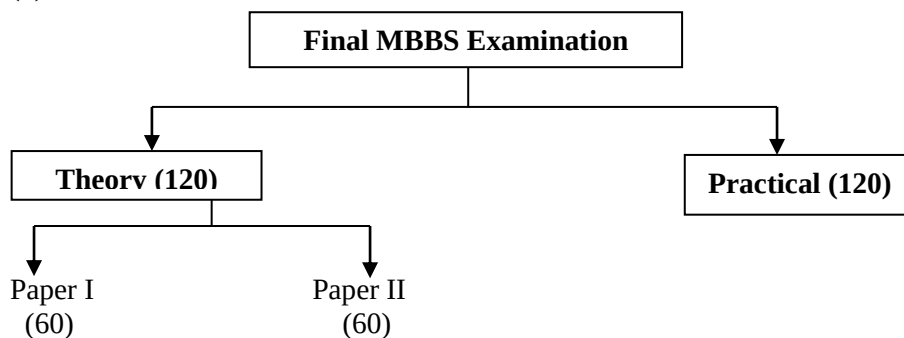
Clinical Posting

Semester	Clinics
3 rd Sem	6 weeks
4 th Sem	4 weeks
5 th Sem	-
6 th Sem	4 weeks
7 th Sem	4 weeks
8 th Sem	4 weeks
9 th Sem	4 weeks
-	26 weeks

(7) EVALUATION METHODS :

- 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.

(8) PATTERN OF FINAL EXAMINATION :



THEORY (120 Marks)

PAPER I - 3 hours *

60 marks

Section A (38 Marks)	Section B (22 Marks)
Q.1 One sentence answer question (Answer any 8 out of 10) 1*8 Marks= 8	Q.1 One sentence answer question (Answer any 5 out of 7) 1*5 Marks
Q.2 Long answer question (answer any 2 out of 3)2*9 Marks=18	Q.2 Long answer question (answer any 1 out of 2) 1 * 9 Marks = 9
Q.3 Short answer question (answer any 3 out of 5) 3*4 Marks = 12	Q.3 Short answer question(answer any 2 out of 3) 2*4 Marks=8

*** Time for section A and Section B – 3 hrs.**

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

Section A (30)	Section B (30)
Q. 1 One sentence answer question (Answer any 12 out of 14) 1*12 Marks=12	Q.1 One sentence answer question (Answer any 5 out of 7) 1*5 Marks=5
Q. 2 Long answer question (answer any 1 out of 2)1*9 Marks=9	Q.2 Short answer question (answer any 5 out of 7) 5*5Marks=25
Q.3 Short answer question (answer any 3 out of 4) 3*3 Marks=9	

Time for section A and Section B – 3 hrs**PRACTICAL (120 MARKS)**

Clinical	Long Case (Surgery)	50 Marks
(100)	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 - (15 marks)	Surgical Pathology (5) + Instruments + Tubes / Catheters + Operative Surgery (5) + Radiology (5)
Viva II - (05 marks)	Radiology + Orthopaedics

Clinical and Viva examinations will be conducted by a pair of examiners.
Out of 6 examiners, 2 examiners (one internal and one external) will be Orthopaedics Surgeons.

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
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
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 and 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

Sr. No	Topic
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 / Varicocoele
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
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