



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



ANAESTHESIOLOGY

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1. INTRODUCTION:

Anesthesiology by virtue of its specialized and highly skill-oriented foundations is a post-graduate level subject. However, it goes without saying that even at UG level, understanding the basics and orientation of principles and practices of this relatively new but very rapidly evolving specialty is advancing. Especially with the wider applications and needs of the services and skills of an anaesthesiologist especially in the areas of operating theatre, critical care, pain management, casualty and emergency medicine, various radiological and radio therapeutic procedures, psychiatric modalities, in addition artificial ventilation and respiratory therapy units, it is absolutely essential that foundations of the subject must be inculcated in the minds of budding doctors, viz. undergraduates.

With this few ground realities in mind the syllabus has been designed to fulfill the needs of the present time without overtaxing the students.

2. GOALS:

- 2.1 To introduce the undergraduate students to the principles and practices of various modalities of Anaesthesia.
- 2.2 Orient the students to various additional applications of skill and knowledge of Anesthesiology in areas of Critical Care, Resuscitation, Pain and its management, execution of life saving procedures and understanding of all the related equipment.
- 2.3 Orientation to the operation theatre including preoperative and recovery areas.

3. DEPARTMENTAL OBJECTIVES:

3.1 Knowledge and Skills:

At the end of training, the student will have acquired basic knowledge and understanding about various aspects involved in the patient care in peri-operative period, viz.

- 3.1.1 Preoperative assessment, preparation and preoperative medication.
- 3.1.2 Various methodologies of Anaesthesia and the drugs involved.

- 3.1.3 Airway management and related equipment.
- 3.1.4 Principles of oxygen therapy and related equipment.
- 3.1.5 Monitoring of the patient and related equipment.
- 3.1.6 Postoperative patient care and management of pain.
- 3.1.7 Venous access and related equipment.
- 3.1.8 Cardio-pulmonary cerebral resuscitation and algorithms involved.

3.2 Integration:

The special nature and limited duration of Anesthesia makes it rather unique and not much of integration is feasible at undergraduate level.

4. Learning Methodologies:

Lectures, tutorials and clinics in the operating theatre for on-line, hands on training.

THE CLINICS:

As the main basis of Anesthesiology is good understanding of Pharmacology with its clinical application, it is mandatory that the clinics must be conducted after students have cleared their pharmacology examination. Viz. After 5th Semester. In addition, after they have had understanding of various surgical specialties, they can understand the importance of Anesthetic management. So, it is proposed that, the clinical posting lasting up to 2 weeks 40-42hrs. (Three hours/day) will be carried out in the 8th Semester. During this period, there will be practical and skill oriented training of the students in the operating room, while actual conduct of various Anesthetic procedures and intraoperative management is going on. Last One hour of each days posting will be devoted to tutorial, which will be conducted in the undergraduate class room of the operation theater complex. This will encompass orientation to various equipment's, devices and other paraphernalia.

THE LECTURES: -

There will be 15 lectures, of 1 hour each encompassing following topics:-

Sr. No.	Topics for theory
1	Introduction, Orientation, Scope and modalities of Anaesthesia , Balanced General Anaesthesia
2	Pre-operative assessment, preparation of patient and pre-anesthetic medications
3	Overview of intravenous and inhalational anaesthetic agents.
4	Airway and respiratory system 1. Anatomy and various methods of airway management and oxygen therapy
5	Neuro - muscular Junction and neuro - muscular blocking drugs
6	Pain and its management - (I) : Anatomy, Physiology, Pharmacology
7	Pain and its management - (II) : Modalities and clinical aspects of pain management and concept of pain clinics
8	Local analgesia and drugs Peripheral nerve blocks and various field blocks
9	Neuraxial techniques : - Extra-dural and subarachnoid blocks, various field blocks, their complications and management. Anatomy, technique.
10	Parenteral infusions, blood and its products, plasma volume expanders, IV fluids.
11	2 hours will be devoted to the actual execution of the (CPCR) algorithms of conducting Cardio-pulmonary cerebral Resuscitation.- related drugs and equipment.
12	Introduction to principles of Critical Care and ICU
13	Resuscitation on a mannequin (Dummy) including introducing all the drugs and equipment involved in the conduct
14	Mechanical ventilation - basic principles and modes of ventilation
15	Trauma – pre hospital management and transportation of trauma patients to hospital and Disaster management.

TOPICS FOR PRACTICAL TRAINING DURING ANAESTHESIA

TERM IN OPERATION THEATRE DURATION 15 DAYS

1. Venipuncture.
2. Lumbar puncture.
3. Airway management – use of manual techniques, oropharyngeal / nasopharyngeal airways, supraglottic airway devices – laryngeal mask airway, I- gel.

AMBU resuscitator.

4. Tracheal Intubation technique.
5. Introduction to Boyle's anaesthesia machine.
6. Introduction to use of intra operative monitors.
7. Cardiopulmonary Resuscitation.

5. INTERNAL ASSESSMENT: -

The internal assessment examination will be conducted at the completion of the clinical posting (VIIIth Semester) and the format is as follows:-
Total Marks 20:- 4 Short Notes of 5 marks each

6. ANESTHESIOLOGY IN THE FINAL MBBS EXAMINATION:-

As is the norm, Surgery, paper-II, section - C contains one short note of Anesthesiology.

7. LIST OF RECOMMENDED BOOKS:-

1. Textbook of Anaesthesia by Aitkenhead – 6th Edition
2. A Practice of Anaesthesia by Wylie and Churchill Davidson
7th Edition
3. Lee's Synopsis of Anaesthesia – 13th Edition