

**DPU**

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

**SYLLABUS**  
**for**  
**III - MBBS**  
**(Part - II)**

**2014-15**

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**ANAESTHESIOLOGY**

## **1. Introduction :**

Anaesthesiology by virtue of its specialized and highly skill-oriented foundation is a post-graduate level subject. However, that 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 improving. 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 procedure, psychiatric modalities, in addition on artificial ventilation and respiratory therapy units, it is absolutely essential that foundations of 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 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 Anaesthesiology in areas of critical care, resuscitation, Pain and its management, execution of life saving; procedures and understanding of all the related equipment.

## **3. Departmental objectives:**

### 3.1 Knowledge and skill:

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 Anaesthesia 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 5<sup>th</sup> 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 hour/ day) will be carried out in the 8<sup>th</sup> 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 day's 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 10 lectures, of 1 hour each encompassing following topics:-

Sr. No.	Topics for theory
1	Introduction, Orientation, Scope and modalities of Anaesthesia.
2	Pre-operative assessment, preparation of patient and pre-anaesthetic medication.
3	Balanced General Anaesthesia.
4	Overview of intravenous and inhalational anaesthetic agents.
5	Airway and respiratory system. 1. Anatomy and various methods of airway management and oxygen therapy.
6	Neuro-muscular Junction and neuro-muscular blocking drugs.
7	Pain and its management (I):- Anatomy, Physiology, Pharmacology
8	Pain and its management(II):-Modalities and clinical aspects of pain management and concept of pain clinics.
9	Local analgesia and drugs Peripheral nerve blocks
10	Local analgesia:- Neuraxialtechniques:- Extra-dural and subarachanoid blocks, various field blocks, their complication and management.
11	Parenteral infusions, blood and its products, plasma volume expanders, IV fluids.
12	2 hours will be devoted to the actual execution of the algorithms of conducting Cardio-Pulmonary cerebral Resuscitation.
13	Introduction to principles of Critical care, understanding

Sr. No.	Topics for theory
	drugs used for resuscitation.
14	Resuscitation on a mannequin(Dummy) including introducing all the drugs and equipment involved in the conduct- clinic
15	Mechanical ventilation- basic principles and modes of ventilation
16	Trauma- pre hospital management and transportation of trauma patients to hospital.

**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  
AMBU laryngeal mask airway.
4. Tracheal Intubation technique.
5. Introduction to Boyle’s anaesthesia machine
6. Introduction to use of intra operative monitoring.
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 mark each.

**6. ANAESTHESIOLOGY IN THE FINAL MBBS EXAMINATION:-**

As in the norm, surgery, paper II, section-C contains one short not of Anaesthesiology.

**7. LIST OF RECOMMENDED BOOKS:-**

1. Textbook of Anaesthesia by Aitkenhead
2. A practice of Anaesthesia by Wylie and Churchill Davidson.