

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

M.D. & D.A. ANAESTHESIOLOGY.

- Method of Teaching :

(a) First Year :-

Candidate while working in Anaesthesiology department will undergo training in basic sciences such as Anatomy . Physiology Medical Surgery , Radiology, Pathology, Pharmacology , related to Anaesthesiology , physics related to Anaesthesiology .

In first year post – graduate students get used to routine work. assist their seniors in practical work, prepare lectures of basic subject , taught to give anaesthesia for minor Procedures & taught basic techniques in routine Procedures. Students attend emergency calls with seniors & go for Preanaesthetic round.

(b) Second Year :-

Post – graduate students do routine & minor emergencies work independently but supervised by seniors. Independent decision making , carry out dissertation, prepare lectures & present case report & attend seminars.

They also attend casualty duties pain clinic & attend call of non – anesthetic casualty . If post – graduate students are registered for diploma then they become eligible for diploma in Anaesthesiology examination.

(c) Third Year :-

Post – graduate 3rd year carry out routine & emergency work independently also prepare lectures & seminars & present case reports. discuss recent advances & Journal reading . Appear for M.D. examination after 6th term .Also take undergraduate clinic.

(d) Fourth Year :-

All above routine & emergency work independently & teaching of undergraduates.

- Thus , P.G. Students should be given graded responsibilities.
- Dissertation starting from 2nd year.

EXAMINATION :-

M.D.

Theory	Paper I	Basic sciences related to anaesthesia.
	Paper II	Clinical Anaesthesia & resuscitation.
	Paper III	Clinical Anaesthesia.
	Paper IV	Anaesthesia & Recent Advances.

DIPLOMA

	Paper I	Basic sciences related to anaesthesia.
	Paper II	Clinical Anaesthesia & resuscitation.
	Paper III	Clinical Anaesthesia

PRCTICAL

M.D.

Long Cases : One.

Short Cases : Two.

DIPLOMA

Long Cases : One (60 Marks.)

Short Cases : One. (40 Marks.)

Table I	Instruments & Medical appliances (50 Marks.)
II	Pharmacology (50 Marks.)
III	Investigation & Specimen (50 Marks.)
IV	General Viva (50 Marks.)

A. Lectures for M. D. & Diploma Students Includes following Topics :

1. Physics related to anaesthesia & anaesthesia equipment, sterilization of anaesthesia equipment, pollution control in O.T.
 2. Pharmacology of drugs related to anaesthesia.
 3. Invasive & noninvasive devices, physics & working.
 4. Respiratory system – Anatomy , physiology, common pathological conditions – clinical features treatment anaesthetic management of respiratory cases & post – op. pulmonary complications & its treatment.
 5. Medical problems in anaesthesia.
 6. Common infectious conditions like AIDS, Hepatitis, other Bacterial infection Nosocomial infection & anaesthesia.
 7. Resuscitation & intensive care of various Medical & surgical & gynecological conditions like shock, burns percent with multiple trauma poisoning etc.
 8. Neuro anaesthesia – Anatomy, Physiology, patho physiology of common conditions clinical feature & Management of head injury, Intracranial tumours, spinal cord injuries .
 9. Cardiovascular Conditions – Anatomy, Pathology, Physiology, Pharmacology. related to anaesthesia, clinical features & management – Hypertension organic heart disease & cardio thoracic surgery.
 10. Pain control – Anatomy , Physiology, Pharmacology, various methods & pain control in different conditions like surgery, cancer & other conditions.
 11. Systemic diseases like renal liver endocrinal GIT ophthalmic, orthopaedic , ENT, Plastic & Cancer – Anatomy Physiology, Pharmacology, pathology related to anaesthesia & anaesthetic management .
 12. Uncommon medical disorders & their related to anaesthesia .
 13. Obs, & gynaecological conditions – Anatomy Physiology. Pharmacology, Pathology, related to anaesthesia, & anaesthetic management.
- B.** General reading.
- C.** Clinical meeting & cases related to anaesthesia.
- D.** Demonstration of various techniques used in anaesthesia & analgesia.
- E.** Investigative procedures like X – ray.
- F.** Demonstration of instrument.

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

M.D. ANESTHESIOLOGY

There shall be series of lectures, seminars, demonstrations, clinical meetings, journal reading and practical work in the department during the practice of training. This will include:

I) **Basic Medical Sciences :**

- (a) Anatomy, human anatomy of regions and organs having on anesthetic practice with a special emphasis on anatomy of respiratory tract, respiratory muscles, mediastinum, central and autonomic nerves system, peripheral nerves and plexus.
- (b) Physiology : function of various system and organs having a bearing on the anaesthetic practice with emphasis on mechanics of respiration including in new born. Physiology of cardiovascular system, central and autonomic nervous system including that of cerebrospinal fluid and neurovascular transmission fluid and electrolyte metabolism, hydrogen regulation hepatic and renal functions, physiology of endocrineglands, vomiting etc.
- (c) Pharmacology : Detailed pharmacology of drugs used in the practice of anesthesia and analgesia and drug interaction.
- (d) Physics : This shall include the study of fundamentals of physics applied to anesthesiology ventilator, gas-laws, properties os gases, inhalations and vapours and their application in the practice of anesthesiology, vaporizers fire and explosion hazards in the operation room, monitoring devices etc.
- (e) Clinical problems related to anesthesiology. This shall include study of various medical, surgical, obstetrical, gynecological and pediatrics, conditions which have bearing on the anesthetic practices, also therapeutic aspects of anesthesiology.
- (f) Theory and practice of Anesthesia: This shall include detailed study of practice of anesthesiology in all aspects like-pre-analgesia as influenced by to type of Medical lesion & operation the post anesthetic care, complication and their managements, resuscitation of emergencies, setting up of recovery room operations rooms and intensive care units and their managements.

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

REGULATIONS FOR M.D. ANESTHESIOLOGY

1. The examination shall be as under;
 - (i) Theory – 4 papers of three hours duration each.
 - (ii) Practical and viva examination

- I)** Theory:
 - Paper I : Basic Medical sciences applied to anesthesiology.
 - Paper II : Clinical sciences applied to anesthesiology.
 - Paper III : Theory and practice of anesthesiology.
 - Paper IV : Theory and practice of anesthesiology and recent advances.

- II)** Practical and Viva examination
This should include;
 - (a) Discussion on at-least one long, two short cases with particular stress on anaesthetic management.
 - (b) Discussion on diagram procedures and interpretation of various investigation having a bearing on anaesthetic management of patients
 - (c) Discussion on anatomical and pathological specimen relevant to anaesthetic problems.
 - (d) Discussion on pharmacological aspects of anesthesia, analgesia and resuscitation.
 - (e) Discussion on various instruments and appliances in anaesthetic practice.
 - (f) Viva covering all aspects of anesthesia, analgesia, resuscitation and therapeutic application of anesthesiology, in the basis of theory, practical, viva examination the board of examiners shall jointly decide whether, candidate should be declared successful or otherwise.