

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

D.T.C.D.

(Diploma in T.B. & Chest Diseases)

- O.D.T.C.D.: -1 Duration of the course will be of two years.
- O.D.T.C.D.: -2 A candidate will be eligible provided he has passed his M.B.B.S. from South Gujarat University or any other university recognized by this university.
- O.D.T.C.D.: -3 At the end of having done residence post for a period of four terms (Two years) at an approved teaching institution having atleast 36 beds for pulmonary T.B., each candidate presenting himself for diploma examination must send to the Registrar together with his application form for admission to the examination and a certificate having attended a course of lectures and demonstrations during post graduate studies to the satisfaction of the Dean of the Medical College or the head of the institution as the case may be.
- O.D.T.C.D.: -4 The examination shall consist of:
- (A) Theory (3 papers)
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|-------------------------------------|-----------|
| i) Epidomiology- Prevention control | I paper |
| ii) Pathology & Bacteriology | 100 marks |
| i) Pulmonary Tuberculosis-I General | II Paper |
| II Spl. | 100 marks |
| i) Non-pulmonary Tuberculosis | III paper |
| ii) Chest Diseases other than T.B. | 100 marks |
- (B) Practicals:
- | | |
|--|----------|
| i) Pathology-Museum specimens | |
| ii) Identification of slides (Histological) | 75 marks |
| iii) Culture Media & Laboratory Methods | |
- Oral : 15 minutes 75 marks

O.D.T.C.D.: - Syllabus

- Development, structures and congenital anomalies of respiratory tract.
- Respiratory physiology and pulmonary function tests.
- Lung defences and immunology.
- Clinical manifestations of respiratory diseases.
- Radiology and Diagnostic imaging of chest.
- Diagnostic procedures like bronchoscopes, bronchography, pleural, lung and lymph node biopsies, pleural aspiration and tube thoracostomy.

- Drugs used in respiratory diseases and drug induced lung diseases.
- Acute and chronic, upper and lower respiratory tract infections due to viral, bacterial, fungal and parasitic organisms.
- Collagen diseases and pulmonary manifestations of system diseases.
- Tumors of the chest.
- ARDS, pulmonary oedema, pulmonary hypertension and respiratory failure.
- Bronchial Asthma and Allergic diseases of upper and lower respiratory tract.
- Occupational lung diseases.
- Lung diseases in immune compromised patients (AIDS)
- Diseases of chest wall and mediastinum.
- Uncommon lung diseases.
- Heart diseases secondary to lung diseases.
- Intensive respiratory care (Ventilators, oxygen therapy, Tracheostomy, etc.)

TUBERCULOSIS

- History, epidemiology and prevention of tuberculosis.
- Histopathology, bacteriology and clinical manifestations of pulmonary tuberculosis.
- Diagnosis, complications and sequelae of pulmonary tuberculosis.
- Extra pulmonary tuberculosis.
- Community control tuberculosis, Mantoux test, ECG, Vaccination, chemoprophylaxis and Rehabilitation.
- Tuberculosis in relation with other diseases.
- Childhood tuberculosis and tuberculosis in elderly.
- Medical and surgical management of tuberculosis.
- Recent advances in the field of tuberculosis, newer drugs, serodiagnosis, etc.
- Study & interpretation of laboratory investigation.

SUGGESTED READING MATERIALS

Text books:

- 1 Text book of tuberculosis by Dr. K. N. Rao
- 2 Croftan & Douglas's Respiratory diseases Ed. Seaton et al (Oxford) (may be used as a reference book also)

Journals :

- 1 Indian Journal of Tuberculosis.
- 2 Lung India
- 3 Indian journal of chest diseases and applied sciences
- 4 Tubercle and lung diseases.
- 5 American review of respiratory diseases.

PASSING STANDARD

A candidate should secure 50% marks separately both in theory and practical examination to get through the examination.

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VEER NARMAD SOUTH GUJARAT UNIVERSITY

Diploma in Medical Radio-Diagnosis (D.M.R.D.)

- O.D.M.R.D.-1** Duration of the course will be of two years.
- O.D.M.R.D.-2** A candidate will be eligible provided he has passed his M.B.B.S. from South Gujarat University or any other university recognized by this university.
- O.D.M.R.D.-3** At the end of two years each candidate presenting himself for diploma examination must send to the Registrar together with his application form for admission to the examination and a certificate having attended a course of lectures and demonstrations during post graduate studies.
- O.D.M.R.D.-4** The examination shall consist of
There shall be three papers of 3 hrs. duration carrying 100 marks each as under.

Theory :-

- Paper-I Physics Radio-physics, nuclear physics as applied in Radio-diagnosis/electrology and dark room technique.
- Paper-II Diagnostic Radiology.
- Paper-III Radio-diagnosis including Tathology & Radiological Anatomy.

Practical examination:- Practical examination carrying 300 marks.

The syllabus for the examination is prescribed as under:-

- O.D.M.R.D.-5** (a) Physics relevant to radiology and electrology electric currents. Magnetic, Chemical and thermal properties of currents. Detection and measurements of currents, Galvanometrics ammeters and voltmeters, passage of currents through solids, liquids and gases.

Electromagnetic induction:-

Induced currents. Induction coil and transformers relays rectifiers production of galvanic earadic and diathermic nature condenser discharge production of high frequency currents. Thermionics photo-electricity.

- (b) Radio physics:- electromagnetic Radiation theory of matter production and properties of electromagnetic radiation including Ultra violet and infrared, corpuscular radiation.

X-rays: - Their production and general properties, x-ray apparatus measurement of quality and quantity of x-rays. Absorption and scattering characteristics of x-rays and filtration, depth

does back scatter. Use of dosage meters protection against x-rays diagnostic x-rays apparatus.
Construction, care of apparatus.

(c) Photography and radioactivity: -

Theory of photographic action and image formation developing and fixing techniques radio activity transformation laws of radioactivity decay, alpha, beta and gamma rays radio active measurement medical uses of isotopes, protection against radio active rays.

Part-II

- 1 Normal radiological appearances.
- 2 Pathology
- 3 Radiological diagnosis as applied to various system of body.
- 4 Radiography.

O.D.M.R.D.-6 To pass the examination a candidate must obtain 50% of the total marks in theory and 50% of the total marks in practical clinical and oral exam taken together.

These of the successful candidate who obtain not less than 60% of the total marks will be placed in the First class and those obtaining not less than 75% of the total marks will be declared to have the examination with Distinction.

VEER NARMAD SOUTH GUJARAT UNIVERSITY

DIPLOMA IN ANESTHESIOLOGY (D.A.)

- 1 Anatomy as applied to Anaesthesiology with particular emphasis on cranial nerves spinal cord, relevant nerves & plexus, peripheral nerves & ganglia, respiratory tract respiratory muscles, mediastinum.
- 2 Physiology including biochemistry as applied to anaesthesiology, emphasis shall be on mechanisms of respiration control or respiration transport of gases, respiration in new born, lung function tests.
Control of cardiac rhythm, cardiac output and peripheral circulation, cerebral blood flow and metabolism structure and function of brain and spinal cord, cerebro-spinal fluid, neuromuscular transmission physiology of autonomic nervous system.
Fluid and electrolyte metabolites, hydrogen ion regulation, hepatic and renal function, general principle of nutrition & metabolism, physiology of endocrine glands.
- 3 Pharmacology applied to anaesthesiology, analgesics, sedation, narcotics, analeptics, antihistaminics, antidotes, present drugs and their importance in the practice of anaesthesiology.
Pharmacology of autonomic nervous system and neuromuscular function, antihypertensive drugs, cardiac glycosides, coagulants and anticoagulants, antibiotics corticosteroids therapy.
- 4 Theory and practice of anaesthesiology. Pre-operative assessment preparation techniques of anaesthesia and analgesia as influenced by the type of surgical condition of patient, anaesthetic management, recognition of post anaesthetic complications and their treatment.
- 5 Therapeutic aspect of anaesthesiology and resuscitation, management of acute emergencies particularly those requiring respiratory resuscitation, oxygen and fluid therapy.

VEER NARMAD SOUTH GUJARAT UNIVERSITY

REGULATIONS FOR DIPLOMA IN ANESTHESIA

The examination shall consist of :

(a) Three written papers each of three hours duration carrying 100 marks each as under:

- (1) Paper 1 : Basic sciences applied to Anaesthesiology
- (2) Paper 2 : Anaesthesiology and resuscitation
- (3) Paper 3 : Theory and practice of Anaesthesiology

(b) Practical examination carrying 300 marks as under:

- (1) Two clinical cases : 100 marks
- (2) Apparatus and Appliances : 50 marks
- (3) Pharmacology : 50 marks
- (4) Investigation and records : 50 marks
pathology anatomy and
specimen
- (5) General viva voce : 50 marks

To pass the examination the candidate must obtain 50% of total marks theory and 50% of total marks in practical/oral examination separately. He has to secure 60% of the total of theory and practical including oral examination to get first class and 75% to get distinction.