

**Details of Curriculum for Second Year
Diploma in Emergency and Trauma Care Technician**

PAPER 1st Theory	Topics	Hours.
1.Only relevant surgical & medical conditions (relevant to ETCT technician).	1. History taking. General examination of the patient. Filling Case-sheet. Common clinical words. Glas Gow coma scale.	15 Hrs
	2. Hypertension:- Def, Causes, Pathology, Clinical lectures, Investigation & Management.	05 Hrs
	3. Hypotension :- Def, Causes, Pathology, Clinical lectures, Investigation & Management.	02 Hrs
	4. Diabetes mellitus :- Def, Causes, Pathology, Clinical lectures, Investigation & Management.	05 Hrs
	5. <u>Diseases of blood</u> :- Anaemia, Basics of coagulation Bleeding disorders & Haemophilia.	10 Hrs
	6. <u>Respiratory Tract</u> :- Pneumonia, Tuberculosis, B.asthma, COPD, Bronchiectasis, Collapse of lung, Pneumonitis, Pleural effusion, Pneumothorax, Empyema thoracis, Cancer lung.	30 Hrs
	7. <u>Diseases of GIT & Liver & GB</u> :-Reflux Oesophagitis, Peptic ulcers, Gastritis, Intestinal Obstruction, Hepatitis, Cirrhosis of liver, Cholecystitis, appendicitis, Hernia, Piles, Fissure, Fistula, Pancreatitis, Pancreatic Cancer.	40 Hrs
	8. <u>Diseases of Nervous system</u> :- Stroke, Meningo-encephalitis, Glasgow coma scale, Epilepsy, Facial n. palsy.	30 Hrs
	9. <u>Diseases of Urinary tract</u> :- Urolithiasis, Benign prostatic hyperplasia, Hydrocoele, Cancer prostate, urethral stricture, Hypo & epi-spadias.	30 Hrs
	10. <u>Endocrine system</u> :- Diabetes mellitus, hypo & Hyper thyroidism.	10 Hrs
	11. <u>Miscellaneous</u> :- Hypo & Hyper Natraemia, Hypo & Hyper Kalaemia, Hypo & Hyper Calcaemia.	10 Hrs
	12. <u>Infections diseases</u> :- TB, Typhoid, Malaria, Dengue fever, Leprosy, AIDS, Amoebiasis.	30 Hrs

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1.Only relevant surgical & medical conditions (relevant to ETCT technician).	13. Head injury & Intracranial bleed.	30 Hrs
	14. D's of G& O: Caesarian section, fibroid uterus, Cancer uterus, prolapse uterus, PID, Emergency delivery.	20 Hrs
	15. Basics about fracture & management.	50 Hrs
	16. PIVD,Potts spine.	10 Hrs
	17. Eye d's : Cataract, Glaucoma, chemical injuries.	15 Hrs
	18. ENT: CSOM, ASOM, Laryngeal tumor, Nasal polyp, DNS.	15 Hrs
	19. Basic idea of Thoracic injury.	13 Hrs
	20. Basic idea of Blunt & penetration abdominal injuries.	20 Hrs
	21. Over all approach to & care of multi trauma patient.	20 Hrs
	22. Poisoning (Common ones)	30 Hrs
	23. Hanging and strangulation.	
	24. Documentation aspects in case of emergency patients.	10 Hrs

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PAPER 1st Theory	Topics	Hours.
2.Basic Nursing Procedures like vital recording, IM/IV/SC injection, Oxygen therapy, Nebulization,, catheterisation, IV infusion, Ryle's tubing.	1. Temperature monitoring & Fever.	02 Hrs
	2. Pulse monitoring.	01 Hr
	3. BP monitoring.	01 Hr
	4. Respiration monitoring.	01 Hr
	5. Types of Injection routes.	01 Hr
	6. IM Injection.	01 Hr
	7. IV Injection.	01 Hr
	8. SC Injection.	01 Hr
	9. Oxygen Therapy.	03 Hrs
	10. Nebulization	01 Hr
	11. IV Infusion (Also with infusion pump).	01 Hr
	12. Care of Unconscious patient.	02 Hrs
	13. Urinary Catheterization.	03 Hrs
	14. Nasogastric Intubation.	03 Hrs

**Details of Curriculum for Second Year
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PAPER 2nd Theory	Topics	Hours.
1. Various procedures done in emergency & critical units & drugs used.	1. C-A-B in case of trauma/emergency.	40 Hrs
	2. Transport & shifting of patient.	30 Hrs
	3. Use of multipara-monitors, ECG machine, Glucometers.	20 Hrs
	4. Care of an unconscious patient	20 Hrs
	5. Thoracocentesis.	10 Hr
	6. Abdominal tapping.	10 Hrs
	7. CVP line insertion.	10 Hrs
	8. Oropharyngeal intubation.	10 Hrs
	9. Tracheostomy.	10 Hrs
	10. Oxygen therapy: Tools and technics.	15 Hrs
	11. Use of Bag & mask ventilltion.	05 Hrs
	12. Use of Bi-PAP, C-PAP.	10 Hrs
	13. Use of ventilators.	10 Hrs
	14. Use of Defibrillator.	03 Hrs
	15. Common instruments(sutures and needles) used in stitching.	05 Hrs
	16. Sponging of patient.	02 Hrs
	17. Use of air/water mattress.	05 Hrs
	18. Lumbar puncture.	05 Hrs
	19. Various types of record keeping/consents etc.	10 Hrs

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PAPER 2nd Theory	Topics	Hours.
2.Basics of CSSD & sterilization practices, biomedical waste management.	1. Various methods of Sterilization.	10 Hrs
	2. Aseptic practices.	05 Hrs
	3. Basics of Bio-medical waste management.	05 Hrs

PAPER 2nd Theory	Topics	Hours.
3.Basic biomedical engineering physics of equipment & instruments used in emergency & critical care.	1. Multipara monitors.	05 Hrs
	2. Ventillators.	05 Hrs
	3. Bi-PAP, C-PAP	05 Hrs
	4. Infusion pump	05 Hrs
	5. Nebulizers.	03 Hrs
	6. Dialysis machine	07 Hrs
	7. Pulse Oxymeter	03 Hrs
	8. Cardiac monitor	02 Hrs
	9. Defibrillator	05 Hrs
	10. Glucometer	03 Hrs
	11. Oxygen concentrator	07 Hrs
	12. Medical Gas supply	10 Hrs

**Curriculum
for
Practical :- Second Year
Diploma in Emergency and Trauma Care Technician**

Practical	Topics
	1. Hands on training of C-A-B of trauma.
	2. Hands on training of safe transportation of various types of emergency patients.
	3. Hands on training of care of a comatose patients.
	4. Hands on training of Various types of first aid & bandaging.
	5. Hands on training of Nebulization, Catheterization, O ₂ inhalation, Nasogastric intubation, Glucometer.
	6. Hands on training of Dressing & help in suturing.
	7. Hands on training of assisting Oro-pharyngeal intubation.
	8. Hands on training of assisting CVP line insertion.
	9. Hands on training of assisting Tracheostomy.
	10. Hands on training of dealing with various emergencies.
	11. Hands on training of documentation and consents etc.