

## **Emergency Medicine Technology**

### **Objectives: Emergency Medicine Technology student should**

- a) Receive and carry out initial assessment of patients with Medical, Trauma, Surgical and Paediatric emergencies
- b) Assist in patient care: monitoring of patients' monitoring of vital parameters, ensuring safe transfer of patients, aspirating and clearing the airway, perform minor emergency procedures
- c) Demonstrate competency in ECG recording, Basic Life Support Skills, Advanced Cardiac Life Support and Trauma Life Support skills
- d) Have knowledge about Hospital Infection Control measures

### **Outcome: After completing three years of Emergency Medicine Technology course, the graduate should be able to**

- a) Work as qualified Emergency Medicine technologist by assisting in emergency care of the patients
- b) Work and contribute in NABH accreditation program

### **Training Provided**

#### **1. Hands on training and exposure under supervision**

- IV cannulation
- Cardiac monitor
- Saturation probe & monitor (portable)
- Defibrillator
- ECG machine
- Injection infusion pump
- Laryngoscopes
- ET tube (endotracheal)
- Cricothyrotomy
- Suturing
- Usage AMBU bag
- Intercostal drainage tube

#### **2. INFRASTRUCTURE**

- The following mannequins are available to train students
  - Cardio Pulmonary Resuscitation – Adult
  - Cardio Pulmonary Resuscitation – Child
  - Cardio Pulmonary Resuscitation – Baby
  - Airway intubation
- The following charts are available to train students
  - Basic Life Support protocol
  - Advanced Life Support protocol

- Trauma Life Support protocol
- Advanced Life Support protocol
- Pain monitoring charts
- Glasgow coma scale
- The following models are available to train students
  - Toxins/Poisons
  - Various species of Snakes

## **Internship Training**

**Emergency Medicine Technology** students should be able to perform the following:

- a) Receiving and initial assessment of patients with Medical, Trauma, Surgical and Pediatric emergencies
- b) Patient care: Aspirating and clearing and opening the airway, checking the vitals of a patient and continuous/ periodic monitoring of patients' vital parameters and ensuring safe transfer of patients
- c) Application of cervical collar, spine board, Oro- and Naso- pharyngeal airway in the trauma victim, oxygen mask/ venturi to deliver desired level of O<sub>2</sub> and direct pressure and dressings on wounds for hemorrhage control
- d) Assisting the procedure: Rapid sequence induction (RSI), Endotracheal intubation, laryngeal mask airway (LMA) insertion, Emergency cricothyroidotomy, tracheostomy, Inter Costal Drainage Tube placement and Central and IV Line Placement
- e) Assisting the procedure: wound debridement, Thomas' splint, Plaster of Paris slab/cast, wound suturing and normal labor
- f) Starting blood transfusion/Infusing crystalloids, bolus infusion, adjusting the rate, etc.
- g) Demonstrate competence in ECG recording, Basic Life Support Skills, Advanced Cardiac Life Support and Trauma Life Support skills
- h) Giving medications as ordered in the Emergency Room by oral and parenteral routes