



STATE PARAMEDICAL FACULTY

Diploma in Emergency Technician & Ambulance Attendant

Year I

Objectives of the Course		
<p>Emergency situations in medical field are of utmost importance in medical field. They define whether a patient will survive or not keeping in view this is a course that can provide education for assisting a doctor doing emergency care and do other emergency activities in traumatic situations.</p>		
Paper I : Anatomy, Physiology and Biochemistry		
Sr. No.	Topics	Hrs.
1.	Terminology used in Anatomy, Bones – Names and location. Basic orientation and organization of human body from cell to organ system	06
2.	Human cells and tissues – Muscle, blood, gland, bone, nerve, reproductive cells and tissues – Organization and their functions	15
3.	Directional references of human body	02
4.	Body cavities – Dorsal and ventral	02
5.	Skeletal System – Terminology, position, basic details. Joints – Terminology, types, structure	20
6.	Integumentary System – Terminology, basics	02
7.	Gastrointestinal System – Terminology, position, structure, parts and their functions. Digestive process, absorption and defaecation.	10
8.	Respiratory System – Terminology, position, structure, parts and their functions, breathing mechanism.	10
9.	Urinary System – Terminology, position, structure, parts and their functions, process of urine formation and voiding.	10
10.	Male Reproductive System – Terminology,	05

	position, structure, parts and their functions	
11.	Female Reproductive System – Terminology, position, structure, parts and their functions, menstrual cycle.	05
12.	Endocrine System – Terminology, position, structure, function and regulation of all hormones	10
13.	Brain and Spinal Cord – Terminology, structure, functions	05
14.	Blood – Terminology, composition, lymphatic details and clotting system.	05
15.	Sensory organs (eyes, ears, nose and tongue) – Terminology, functions.	10
16.	Cardiovascular System – Terminology, structure. Vessels entering and leaving the heart. Arterial and venous tree.	10
17.	Lymphatic System – Terminology, functions of WBCs, spleen, tonsils and lymph nodes	05
18.	Immune System – Terminology, components, mechanism of defense	05
19.	Chemistry of Life – Terminology, components and basics	05
20.	Carbohydrates – Terminology, classification and functions	05
21.	Lipids – Terminology, classification and functions	05
22.	Proteins – Terminology, classification and functions	05
23.	Vitamins and Minerals – Terminology, classification and functions	05

Reference Books

1.	An Integrated Approach to Health Sciences	Colbert Bruce, Jeff Ankney, Joe Wilson, John Havrilla	Cengage Learning
2.	Human Physiology, Biochemistry and Basic Medicine	Laurence A. Cole, Peter R. Kramer	Elsevier

Paper II : English, Hospital and Patient Orientation, Computer

Sr. No.	Topics	Hrs.
1.	Communication – Terminology, role, 7 Cs, barriers.	02
2.	Comprehension – Reading purposefully, drawing conclusions, findings and analysis.	02
3.	Business Letters – Construction, use of formal language, formal opening and closing, address, salutation and body and conclusion.	04
4.	Reporting – Construction, reporting formal meeting, session and an accident.	03
5.	Hospital And Patient Orientation – Organization, structure, classification, departments and team (esp. emergency department), paramedical staff.	10
6.	Ancillary Departments – Lab, pharmacy, Imaging, physiotherapy, patient support services, administration, billing, medical insurance, patient transport, dietary, social services.	10
7.	Health Information Management – Terminology, medical records, electronic record keeping, medico-legal issues.	10
8.	Computers – Hardware – Input/output devices, central processing unit, memory layers (only basics)	05
9.	Computers – Software – Operating system basics, word processing, presentations, applications. Basics of medical applications	10
10.	Internet – Writing e-mail (salutations, CC, BCC other formalities), use of search engines, uploading and downloading files safely, use of cloud, use of medical-educational websites.	05

Reference Books

1.	Business Communication Process and Product	Mary Ellen Guffey, Dana Loewy	Cengage Learning
2.	English for Nurses	Shama Lohumi	Elsevier
3.	Hospitals and Patients	William R. Rosengren, Mark	Aldine Transaction

		Lefton	
4.	Easy Computer Basics	Michael Miller	Pearson education

Paper III : Introduction to EM and Emergency Medical Services

Sr. No.	Topics	Hrs.
1.	Emergency Medical Services (EMS) – Terminology, history and current trends	03
2.	Emergency Medicine – Terminology, specialty, basics, pros & cons	10
3.	Emergency Medical Services (EMS) – Traumatic injuries and other conditions	10
4.	Emergency Medical Services (EMS) – ABCDE of primary survey.	10
5.	Emergency Medical Services (EMS) – Secondary survey	05
6.	Emergency Medical Services (EMS) – Medico-legal issues	05
7.	Emergency Medical Services (EMS) – Patient movement	03
8.	Emergency Medical Services (EMS) – Principles of life support and its basics and advanced	10
9.	Role and responsibilities of emergency technician	03
10.	Components of EMS	05
11.	Status of EMS in India	01

Reference Books

1.	Introduction to Emergency Medicine	Elizabeth Mitchell, Ron Medzon	Williams and Wilkins
2.	An Introduction to Clinical Emergency Medicine	S. V. Mahadevan, Gus M. Garmel	Cambridge University Press