

Course Code: OEPAR101	Open Elective FIRST AID	L-3 T-0 P-0 C-3
Course Outcomes:	On completion of the course, the students will be:	
CO-1	Understanding the basic concepts of First aid	
CO-2	Understanding different steps used in Emergency conditions	
CO-3	Demonstrating knowledge about the healthcare sector and First aid services	
CO-4	Demonstrating actions in the event of medical and facility emergencies situations	
Course Content:		
Unit-1:	BASIC FIRST AID TECHNIQUES: Aims of first aid. First aid and the law. Dealing with an emergency. Resuscitation (basic CPR). Recovery position. Initial top to toe assessment. Hygiene and hand washing. First aid overview flow chart.	
Unit-2:	RESPIRATORY SYSTEM AND BREATHING: Respiration. No breathing or difficult breathing. Drowning, Strangulation and hanging. Choking, Swelling within the throat. Suffocation by smoke or gases and Asthma.	
Unit-3:	HEART, BLOOD CIRCULATION, SHOCK: The heart and the blood circulation. Chest discomfort. Bleeding, Wounds, Injury and Shock.	
Unit-4:	NERVOUS SYSTEM AND UNCONSCIOUSNESS Nervous system Unconsciousness. Head injuries. Stroke. Fits – convulsions – seizures and Epilepsy.	
Unit-5:	SKIN, BURNS, HEAT EXHAUSTION, FEVER AND HYPOTHERMIA: The skin. Burn wounds. Dry burns and scalds (Burns from fire, heat and steam). Electrical burns. Chemical burns. Sun burns, heat exhaustion and heatstroke. Frost bites (cold burns). Prevention of burns.	
Unit-6	PSYCHOLOGICAL FIRST AID: What is psychological first aid? Traumatic crisis. How do I provide (psychological) first aid? Poisoning & Swallowed foreign objects patient.	
Text Books:	Indian First Aid Manual 2016	
Reference Books:	Wilderness Medicine: Beyond First Aid by William W. Forgey The Official Wilderness First Aid Guide by Wayne Merry	

	https://www.healthline.com/health/first-aid	
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Course Code: OEPAR102	Open Elective EMERGENCY CARE	L-3 T-0 P-0 C-3
Course Outcomes:	On completion of the course, the students will be:	
CO-1	Understanding the basic concepts of Emergency Management	
CO-2	Understanding different steps used in Emergency Management	
CO-3	Demonstrating knowledge about the healthcare sector and emergency medical care services	
CO-4	Demonstrating actions in the event of medical and facility emergencies	
Course Content:		
Unit-1:	Define Emergency Medical Services (EMS) systems. Differentiate the roles and responsibilities of the EMT-Professional from other pre-hospital care providers.	
Unit-2:	Describe the roles and responsibilities related to personal safety. Discuss the roles and responsibilities of the EMT-Professional towards the safety of the crew, the patient, and bystanders. Define quality improvement and discuss the EMT-Professional's role in the process.	
Unit-3:	Define medical direction and discuss the EMT-Professional's role in the process. State the specific statutes and regulations in your state regarding the EMS system. Assess areas of personal attitude and conduct of the EMT-Professional. Characterize the various methods used to access the EMS system in your community.	
Unit-4:	List possible emotional reactions that the EMT-Basic may experience when faced with trauma, illness, death and dying. Discuss the possible reactions that a family member may exhibit when confronted with death and dying. State the steps in the EMT-Basic's approach to the family confronted with death and dying.	
Unit-5:	Identify the components of vital signs. Describe the methods to obtain a breathing rate. Identify the attributes that should be obtained when assessing breathing. Differentiate between shallow, labored and noisy breathing. Describe the methods to obtain a pulse rate.	
Text Books:	Introduction to Emergency Management by Butterworth-Heinemann (Homeland Security)	

<u>Reference Books:</u>	Tintinalli's Emergency Medicine: A Comprehensive Study Guide, Roberts and Hedges' Clinical Procedures in Emergency Medicine: Expert Consult https://www.eu.elsevierhealth.com/medicine-and-surgery/emergency-medicine	
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Course Code: OEPAR103	<u>Open Elective</u> <u>HOSPITAL MANAGEMENT</u>	L-3 T-0 P-0 C-3
Course Outcomes:	On completion of the course, the students will be:	
CO-1	Understanding the role and functions of hospitals & their healthcare context.	
CO-2	Understanding the importance of looking after health, welfare & safety of staff.	
CO-3	Developing knowledge of key theories, concepts & models in an Hospital set up.	
CO-4	Applying the introduced conceptual framework, theory & techniques to lead the organization in achieving its goal.	
Course Content:		
Unit-1:	Principles and Practices of Management & Organizational Behavior: Basic concepts of Management, Planning, Organizing & directing, Decision making, Organizational Behavior, Personality & Attitudes	
Unit-2:	Hospital Planning: Types of Hospital Organization & Statutory Requirements for Planning, Selection of the Size, Preparation of the Master plan, Preparation of Schedule of Accommodation, Planning for Equipments & Purchase, Layout, Grouping, Zoning & Phasing of Activities, Planning for various categories of Staff, Administrative action for Appointment, Training	
Unit-3:	Medical Terminology & Procedures: Fundamentals of Medical Terminology, Introduction to Anatomy & Physiology, Organs & Systems, Common Diseases & Procedures	
Unit-4:	Hospital Administration: Routine Admission/Discharge Procedures/Discharge Summary, Hospital Utilization Statistics, Daily Reports / Returns, Patient's Complaint & Medical Certificates, Duty Roster of various categories of Staff. Front Office: Duties & Responsibilities, Dealing with Crisis Situation.	
Unit-5:	Healthcare & Administration of Clinical & Non-clinical Services: Health Administration in India, Health Care Delivery System, National Health Policy, National Health Programme, Central Sterile Supply Department, Medical Records Department, Quality Management in Health Care.	
<u>Text Books:</u>	1) Essential of Hospital Support Services & Physical Infrastructure – By Madhuri Sharma – Jaypee Brothers, New Delhi	
<u>Reference Books:</u>	1) Emergency Medical Services & Disaster Management – By D.K. Dave & Shakti Gupta – Jaypee Brothers, New Delhi. 2) Hospital Infection Control – By S.A. Tabish Academia, New Delhi. 3) Principles of Anatomy & Physiology – By Gerard J. Tortora	
E- Learning site	https://www.hospitals-management.com/	

<u>Course Code:</u> OEPAR104	<u>Open Elective</u> <u>General Introduction about Forensic Science, Evidence & Their Importance.</u>	L-3 T-0 P-0 C-3
<u>Course Outcome</u>	On completion of the course, the students will be:	
CO-1	Understanding the basics & different branches of forensic sciences.	
CO-2	Understanding about the working and functioning of forensic science laboratories.	
CO-3	Understanding the importance of various evidences & how they used to solve the case.	
CO-4	Applying the different analysis techniques in a given crime scene & solve the case.	
<u>Course Content:</u>		
Unit-1:	Basics of Forensic Science:- Introduction Global History and Scope, Need and Development Principles, emphasizing on Specific contribution of Scientists in the field of Forensic Science.	
Unit-2:	Crime scene Investigation: Definition of Crime Scene. Classification of crime Scene: Indoor & Outdoor, Primary & Secondary, Macroscopic & Microscopic crime scene.	
Unit-3:	Physical evidence:- Definition, types of physical evidences, sources of physical evidence, signification and value of physical evidence, linkage between crime scene, victim and criminal, study of some special crime scene such as mass disaster, terror attack, geological scene and explosive etc.	
Unit-4:	Domains in Forensic Science: Branches of Forensic Science, Role and Qualifications of forensic scientists. Ethical issue in Forensic Science, sanction against expert for unethical conduct.	
Unit-5:	Crime: Definition of crime, characteristics of crime, classification of crimes, A brief ideas about White collar crime, professional crime, organized crime, present scenario of crime in India.	
<u>Text Books:</u>	1. M.K. Bhasin and S. Nath, <i>Role of Forensic Science in the New Millennium</i> , University of Delhi, Delhi (2002).	

<p><u>Reference Books:</u></p>	<ol style="list-style-type: none"> 2. B.B. Nanda and R.K. Tiwari, <i>Forensic Science in India: A Vision for the Twenty First Century</i>, Select Publishers, New Delhi (2001). 3. S.H. James and J.J. Nordby, <i>Forensic Science: An Introduction to Scientific and Investigative Techniques</i>, 2nd Edition, CRC Press, Boca Raton (2005) 4. R. Saferstein, <i>Criminalistics</i>, 8th Edition, Prentice Hall, New Jersey (2004). 5. W.J. Tilstone, M.L. Hastrup and C. Hald, <i>Fisher's Techniques of Crime Scene Investigation</i>, CRC Press, Boca Raton (2013). 	
<p>E- Learning site</p>	<ol style="list-style-type: none"> 1. https://forensicresources.org/view-resources/websites/ 	