



YENEPOYA

(DEEMED TO BE UNIVERSITY)

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Accredited by NAAC with 'A' Grade

**YENEPOYA INSTITUTE OF ALLIED
HEALTH SCIENCES**

**PROGRAM OUTCOMES AND COURSE OUTCOMES
UNDERGRADUATE PROGRAM
BACHELOR OF SCIENCE IN
EMERGENCY MEDICINE TECHNOLOGY**

ATTESTED

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PROGRAM OUTCOMES
UNDERGRADUATE PROGRAM
BACHELOR OF SCIENCE IN
EMERGENCY MEDICINE TECHNOLOGY

(K -Knowledge, S -Skill, A -Attitude)

- PO 1 At the end of the Program student should be able to Demonstrate knowledge about emergency medical care services (K)
- PO 2 Demonstrate the ability to perform clinical skills essential in providing basic emergency medical care services (K,S,A)
- PO 3 Ability to work as part of a multidisciplinary team during emergency. (K,S,A)
- PO 4 Demonstrate setting of an ambulance for dealing with emergency situations
Practice infection control measures (K,S,A)
- PO 5 Demonstrate safe and efficient transferring and ambulation techniques (S,A)
- PO 6 Demonstrate techniques to maintain the personal hygiene needs of oneself and the patient
- PO 7 Demonstrate good communication, communicate accurately and appropriately in the role of Emergency Medical technician (K,S,A)
- PO 8 Ability to stay calm and make the right decisions in adverse conditions.(K,A)
- PO 9 Be the active member of the disaster management team (K,S,A)
- PO 10 Administer various drugs in emergencies and as a routine (K,S,A)
- PO 11 Patient Assessment: General Examination: Vitals, ECG Recording. (S)
- PO 12 Able to manage injuries or sudden illnesses by applying a variety of pre-hospital simple and advanced treatments or surgical procedures. (K,S,A)
- PO 13 BCLS/BTLS & Use of defibrillator (K,S)
- PO 14 Equipment handling and medication preparation. (K,S,A)
- PO 15 ACLS/ATLS protocols (K,S)
- PO 16 Airway management.(K,S)
- PO 17 Extrication from automobiles & lifting and moving patients (K,S,A)
- PO 18 Transports the patient to ambulance & lifting and moving patients (K,S,A)
- PO 19 Immobilize: spine board etc. & patient monitoring during transfer(K,S,A)

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COURSE OUTCOMES
UNDERGRADUATE PROGRAM
BACHELOR OF SCIENCE IN
EMERGENCY MEDICINE TECHNOLOGY

SEMESTER I

	CO	Description
Anatomy	CO 1	Comprehend the gross, functional and applied anatomy of various structures in the human body along with their inter-relationships.
	CO 2	Correlate the structure with the functions.
	CO 3	Competent to apply anatomical knowledge to perform minor technical procedural skills

	CO	Description
Physiology	CO 1	To broadly understand the physiological structure of each organ system and its physiological functions
	CO 2	To understand broadly the clinical abnormalities of organs and its clinical physiological implications

	CO	Description
Biochemistry	CO 1	Understanding the basic principles and procedures in specimen collection, reagent preparation and testing in Clinical laboratory
	CO 2	Understanding the properties of biomolecules, their function and biochemical process involved in health and disease
	CO 3	Understanding the importance of nutrition in health and disease

	CO	Description
Introduction to Emergency services I	CO 1	Students are able to take history, physical examination and investigations so as to enable the student to recognise the illness and start early treatment

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	CO	Description
English and Communication Skills	CO 1	Enable students in enhancing the ability to comprehend spoken and written English.
	CO 2	Avail effective communicative English in their professional work.
	CO 3	Practice students' skills in verbal and written English during clinical and classroom experiences.
Constitution of India	CO	Description
	CO 1	Understanding the structure of Constituent Assembly
	CO 2	To understand the fundamental duties and rights of Indian citizen
	CO 3	Knowledge regarding electoral process of India
	CO 4	Understand the importance of directive policies of state policies
	CO 5	Understand the structure and composition of Indian Constitution, and the ways of amending the Constitution
	CO 6	Stimulate the roles of each of the three branches of government
CO 7	Understand the provisions in the constitution for different areas	

SEMESTER II

	CO	Description
General Pathology	CO 1	To be able to define the medical terms, define and classify disease and understand the concepts of the disease.
	CO 2	Able to describe the causes and mechanism of common diseases that occur during the routine work and also changes seen in different individuals and various organs and fluids
	CO 3	Able to enumerate the laboratory tests e.g. urine, blood, body fluids and its application on various diseases

	CO	Description
Microbiology	CO 1	Understanding of role of microbial agents in health and disease
	CO 2	Understand and practice various methods of Sterilisation and disinfection

	CO	Description
Emergency department equipment –I	CO1	Students will be trained to perform emergency department equipments
	CO2	Trained to assess vital signs.

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	CO	Description
Environmental Studies	CO 1	Students will be able to learn about environment, factors affecting it, environmental ethics and its protection
	CO 2	Students will be able to Describe a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
	CO 3	Students will be able to Critically analyse technical subject matter (written or oral) for scientific merit apply learned environmental knowledge and understanding to solve technical /research problems in new contexts

	CO	Description
Healthcare	CO 1	Describe the concepts of health, illness and national health policy various welfare programmes in India.
	CO 2	Explain the concepts of Nursing
	CO 3	Explain infection control

	CO	Description
Medical Ethics	CO 1	To understand the fundamentals of Medical Ethics
	CO 2	To Understand the Ethical Issues in Professional conduct of Healthcare
	CO 3	To gain knowledge in the Medico legal aspects of health records in healthcare practice
	CO4	To be able to explain the respective ethical challenges and potential conflicts of interest in the functional departments of the organization
	CO5	To increase the awareness and knowledge of the value dimensions of interactions with the Patients, colleagues, relations and public.
	CO6	To Understand and respect the rights of the patient and the duties and responsibilities of the healthcare people

	CO	Description
Sociology	CO 1	Able to understand the meaning of sociology, its relationship with other disciplines and also to gain knowledge on the sociological methods of investigations
	CO 2	Able to understand social factors and its role in health and disease
	CO 3	Able to understand the meaning, importance and agencies of socialization
	CO 4	Able to understand the concept and role of social groups in health, sickness and rehabilitation
	CO 5	Able to understand the meaning of family and its role in health, nutrition and sickness among members


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- CO 6 Able to understand the meaning, features and health hazards of rural and urban communities
- CO 7 Able to understand the concept of culture and health and their relationship
- CO 8 Able to understand the meaning of social change, factors of social change, social change and stress , social change and health
- CO 9 Able to understand the meaning of social problems and types of social problems in the society
- CO 10 Gain knowledge on the social security and social legislation measures for the disabled
- CO 11 Able to understand the meaning of social work and role of medical social worker

SEMESTER III

Systemic Pathology	CO	Description
	CO 1	To be able to define the medical terms, define and classify disease and understand the concepts of the disease.
	CO 2	Able to describe the causes and mechanism of kidney diseases that occur during the routine work and also changes seen in different individuals
Applied Microbiology	CO	Description
	CO 1	To understand urinary tract and bloodstream infections
	CO 2	To study viral infections of importance
	CO 3	To learn infection control measures and to understand methods of sterilization and disinfection
General Pharmacology (GP)	CO	Description
	CO1	Know the basics of pharmacology like history, scope & general principles
	CO2	Describe the pharmacokinetics and pharmacodynamics of essential and commonly used drugs.
	CO3	To appreciate adverse reactions and drug interactions of commonly used drugs
	CO4	Knowledge on essential drugs in special conditions such as diuretics, opioids, corticosteroids, antihistamines, antiemetics, IV fluids, and Immunosuppressants etc
Patient Assessment - Medical	CO	Description
	CO 1	Able to perform assessment of patient's with medical & psychiatric emergencies.

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Introduction to Emergency services II	CO	Description
	CO 1	Able to perform assessment of patient's with medical emergencies, and manage them through emergency departmental procedure

Kannada	CO	Description
	CO 1	To comprehend and communicate in simple Kannada and improve their vocabulary of daily usage
	CO2	to understand distinct sounds and improve pronunciation
	CO3	to form simple sentences to talk to patients, bystanders and the localities

SEMESTER IV

Emergency department equipmentnt –Part II	CO	Description
	CO 1	Able to perform emergency procedures
	CO 2	Trained to use advanced emergency equipments
	CO 3	Able to perform/assist basic diagnostic testing.

Medical Emergencies I	CO	Description
	CO 1	Able to differentiate difference between medical & Traumatic emergencies
	CO 2	Able to manage pulmonary, cardiology & neurological emergencies with all advanced techniques in the field and emergency department
	CO 3	Trained for fluid therapy.

Patient Assessment - Trauma	CO	Description
	CO 1	Trained to perform assessment of patient's with medical emergencies.

Human Rights and Gender Equity	CO	Description
	CO 1	Basic Knowledge of Human Rights and its function and authorities in society and industry women's status, issues and gender equity.

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	CO	Description
Biostatistics	CO 1	Gains Knowledge in application of statistics in medical field and research.
	CO 2	Possesses knowledge and skill in the use of basic statistical methods.

SEMESTER V

	CO	Description
Trauma 1	CO1	Able to identify severity of injury
	CO2	Advanced bleeding management
Emergency Obstetrics & Neonatal Care	CO	Description
	CO1	Able to gain knowledge about physical changes that take place in a child bearing woman.
	CO2	Knowledge on the specific injuries that can occur in pregnancy.
Paediatric, Geriatric & Psychiatric Emergencies	CO	Description
	CO1	Trained to manage geriatric emergencies, paediatric emergencies & psychiatric emergencies.

SEMESTER VI

	CO	Description
Medical Emergencies-II	CO1	Trained to manage gastrointestinal, renal, endocrine and metabolic emergencies in the field and emergency department.
	CO2	Able to manage poisoning & toxicology emergencies.
	CO 3	Trained to assess and management of animal bites & drowning.
Disaster Management	CO	Description
	CO 1	Rational decision making capability.
	CO 2	Leadership quality
Trauma 2	CO	Description
	CO 1	Able to manage trauma patients in the field and emergency department.


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