



YENEPOYA

(DEEMED TO BE UNIVERSITY)

Recognized under Sec 3(A) of the UGC Act 1956

Accredited by NAAC with 'A' Grade

**YENEPOYA INSTITUTE OF ALLIED
HEALTH SCIENCES**

PROGRAM OUTCOMES AND COURSE OUTCOMES

UNDERGRADUATE PROGRAM

BACHELOR OF SCIENCE

PHYSICIAN ASSISTANT

ATTESTED

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PROGRAM OUTCOMES
UNDERGRADUATE PROGRAM
BACHELOR OF SCIENCE
PHYSICIAN ASSISTANT

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

- PO 1 Gather essential and accurate information about patients through history-taking, physical examination, and diagnostic studies to provide patient-centered care. (K,S,A)
- PO 2 Synthesize and critically evaluate the most current scientific evidence and the stories of individual patients to develop and implement patient management plans, provide preventative care, and promote individual wellbeing. (K,S)
- PO 3 Provide life support and perform emergency evaluation/care and initiate therapeutic procedures in life-threatening events jointly with or in the absence of a physician or other health professionals. (K,S,A)
- PO 4 Learn to develop and implement patient management plans (K,S)
- PO 5 Formulate a differential diagnosis and prepare a problem list based on the assessment of the patient. (K,S)
- PO 6 Record and present pertinent patient data, including interpretive recommendations, in a manner meaningful to the physician and members of the healthcare team (K,S,A)
- PO 7 Promote health and wellness; instruct and counsel patients regarding physical and mental health, including proper diet, disease prevention, normal growth and development, family planning, lifestyle risks, situational adjustment reactions and other health care matters. (K, S, A)
- PO 8 Demonstrate critical and creative thinking skills, informed value judgments and possess an educational foundation for continued growth and life-long learning. (K, S, A)
- PO 9 Partner with supervising physicians, health care managers, and other health care providers to assess, coordinate, and improve the delivery and effectiveness of health care and patient outcomes. (S, A)

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COURSE OUTCOMES
UNDERGRADUATE PROGRAM
BACHELOR OF SCIENCE
PHYSICIAN ASSISTANT
1ST SEMESTER

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

Physiology CO Description

- 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

Biochemistry CO Description

- 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

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Basics of Medicine	CO	Description
(History, Examination and Pharmacology)	CO 1	Learns how to communicate with patient in the hospital, Recording Vital Parameters.
	CO 2	Gets familiar with all the various Medical Terminologies and gets to know the different systems of the body and their ailment.
	CO 3	Understand the basic pharmacology of commonly used drugs approach to a Patient in OPD

English and Communication Skills	CO	Description
	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

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2nd SEMESTER

General CO Description

- 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 eg: urine, blood, body fluids and its application on various diseases

Microbiology CO Description

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

Patient CO Description

- Care & Basic Nursing**
- CO1 Learn about the importance of patient care and basics of nursing activities
- CO2 At the end of this course, students will have the Knowledge in communication and documentation, infection control, medication administration.
- CO3 Learns in detail about First aid, Basic Life Support, Advanced life support and oxygen therapy.

Environmental CO Description

- 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

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CO 3 Students will be able to Critically analyze technical subject matter (written or oral) for scientific merit apply learned environmental knowledge and understanding to solve technical /research problems in new contexts

Health Care	CO	Description
	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 the basic, special needs of the patient, bandaging and first aid for common emergencies
	CO 4	Explain infection control

Environmental Studies	CO	Description
	CO 1	Students learn to knowledge on Echo systems, biodiversity and environmental policies and practices.

Sociology	CO	Description
	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
	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,

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- 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

Medical	CO	Description
Ethics	CO 1	Increasing the awareness and knowledge of students of the value dimensions of interactions With the patients, colleagues, relations and public.
	CO 2	Fostering the development of skills of analysis, decision making and judgment.
	CO 3	Making the students aware of the need to respect the rights of the patient.
	CO 4	Duties and responsibilities of the technologists.

3rd SEMESTER

Systemic	CO	Description
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 kidney diseases that occur during the routine work and also changes seen in different individuals

Applied	CO	Description
Microbiology	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

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	CO	Description
General Pharmacology (GP)	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

Surgery/Equipments/ Anaesthesiology	CO	Description
	CO 1	Diagnose common surgical conditions both acute and chronic, in adult and children. Describe common malignancies in the country and their management including prevention.
	CO 2	Plan various laboratory tests for surgical conditions and interpret the results.
	CO 3	Identify and manage patients of haemorrhagic; septicæmic and other types of shock. Define indications and methods for fluid and electrolyte replacement therapy including blood transfusion.

Basic Diagnostic tests and Biochemistry	CO	Description
	CO 1	Performance / interpretation of non invasive tests ECG , Echo Gardio Graphy , Tread Mill,
	CO 2	Doppler Ultra Sound ...
	CO 3	Provide appropriate information to referring Physicians. Understand and analyse the basic blood Biochemistry, Urine analyse Learn basic principles and techniques of standard intervention therapeutic tests.

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(S)
	CO3	to form simple sentences to talk to patients, bystanders and the localities.

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	CO	Description
Clinical Medicine I		Student will be able to describe operative and non operative treatment for surgical patients.
	CO 1	
	CO2	Demonstrate basic technical skills such as suturing and surgical dressings.

4th SEMESTER

Basics of Medical Disorders	CO	Description
	CO 1	Knowledge in basic concepts of common medical disorders and its therapeutic options.
	CO 2	Learns the art of history Taking and clinical examination, monitoring of patient.
	CO 3	Therapeutic options for various diseases and conditions

	CO	Description
Obstetrics And Gynaecology	CO 1	To know the effects of common medical problems on pregnancy and delivery.
	CO 2	To gain knowledge of early pregnancy complications/high risk pregnancies including IUGR, advanced maternal age and chromosomal abnormalities
	CO 3	To know the indications for the use of fetal monitors.

Clinical Medicine II	CO	Description
	CO 1	Understands behaviour and child development and its impact on health and illness.
	CO2	Understanding the effect of common medical problems on pregnancy and delivery.

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.

	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.

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5th SEMESTER

	CO	Description
Gastroenterology And Orthopaedics	CO1	Understanding the principles of treatment for common musculoskeletal conditions Assignment of limited co-management responsibilities under supervision Participation in clinic visits, daily patient
	CO2	Describe when blood tests and imaging methods are required for diagnosis, how to interpret them and how they influence management.
	CO 3	rounds and conferences

	CO	Description
Nephrology and Pulmonology	CO1	The student will be able to demonstrate the knowledge, attitudes and skills needed to assist with a physician or a surgeon to care for patients with kidney disease (including the management of dialysis and renal transplantation)
	CO2	Understanding the concepts of Genito-urinary system, Urinary tract pathology and clinical examination of kidney in detail.

	CO	Description
Neurology	CO1	Understanding the Nervous system in detail - About the brain and the spinal cord.
	CO2	Gets familiar with the neurological conditions and how to diagnose and investigate them accordingly.
	CO 3	Recognize the indications and the information obtained from routine neurological tests such as lumbar puncture, electroencephalography, electromyography, computerized tomography and magnetic resonance imaging

	CO	Description
Clinical Medicine III	CO 1	Gain Proficiency in performing a detailed GI related history and Physical Examination.
	CO2	Develop expertise clinical data to formulate differential diagnosis for orthopedic conditions.

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6th SEMESTER

	CO	Description
Basics of Thoracic Surgery and Blood Components	CO1	Understanding the surgeries of coronary artery bypass surgery, heart transplant, lung transplant and removal of parts of the lung affected by cancer.
	CO2	Acquires a detailed knowledge in lungs and its disorders along with Thoracoscopic Surgery
	CO 3	Knowledge on blood grouping an cross matching and blood borne diseases
Cardiology And Cardiac Surgery	CO	Description
	CO1	In depth knowledge in Cardiovascular diseases and Cardiac Catheterisation.
	CO2	Comprehend basics of cardiac surgery and arterial line insertion.
	CO 3	Practical Assessment of Pre and Post operative care for Surgical patients.
Basic Intensive Care	CO	Description
	CO1	Understands basic intensive care concepts by applying the knowledge of patient care, anatomy, physiology and medical disorders.
	CO2	Understands the practical care given in the general ICU and close monitoring of the patients in ICU
	CO 3	Acquires knowledge to assess and manage head injury patients and also to use and monitor the ventilators.
	CO	Description
Clinical Medicine III	CO 1	Knowledge to assess and manage head injury patients and to use and monitor ventilators.
	CO2	Comprehend basics of cardiac surgery and arterial line insertion.

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