

## PROGRAM OUTCOMES (PO)

PO	KEY CONCEPT	EXPLANATION
PO1	<b>Pharmacy Knowledge</b>	Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy
PO2	<b>Modern tool usage</b>	Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations
PO3	<b>Leadership skills</b>	Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and wellbeing.
PO4	<b>Professional Identity</b>	Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
PO5	<b>Pharmaceutical Ethics</b>	Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.
PO6	<b>Communication</b>	Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions
PO7	<b>The Pharmacist and society</b>	Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.
PO8	<b>Environment and sustainability</b>	Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO9	<b>Life-long learning</b>	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

**COURSE OUTCOME: D.PHARM.**

NAME OF THE COURSE WITH CODE	COURSE OUTCOME
<b>ER91-23P</b> Biochemistry & Clinical Pathology Practical	<b>ER91-23P. CO1:</b> Inspect and analyze various macromolecules in the unknown sample
	<b>ER91-23P. CO2:</b> Apply the knowledge of clinical pathology practices that help to select an effective treatment.
	<b>ER91-23P. CO3:</b> Interpret appropriate microscopical examination for the proper diagnosis of disease.
	<b>ER91-23P. CO4:</b> Develop skill of injecting drugs and withdrawal of blood sample
<b>ER91-22T</b> Health Education & Community Pharmacy	<b>ER91-22T. CO1:</b> Understand the Concept of Health, Nutrition and its requirements, Environment and its effect on health, Demography and family Planning.
	<b>ER91-22T. CO2:</b> Apply the knowledge in providing various emergency treatments.
	<b>ER91-22T.CO3:</b> Distinguish different types of Microorganisms causing infection.
	<b>ER91-22T. CO4:</b> Participate in prevention and control programme of Communicable and Non-communicable diseases.
	<b>ER91-22T. CO5:</b> Develop knowledge about disease transmission, immunity, immunological product and skill of disinfection procedure.
<b>ER91-23T</b> Biochemistry & Clinical Pathology	<b>ER91-23T. CO1:</b> Students will be to apply the basic knowledge of biological macromolecules in understanding of various pathological states.
	<b>ER91-23T. CO2:</b> Students will be able to analyze the significance of biological macromolecules in the interpretation of laboratory results and pathophysiology of different diseases.
	<b>ER91-23T. CO3:</b> Students will be able to apply the knowledge of clinical biochemistry to meet the needs of community and hospital pharmacy.
<b>ER91-14T</b> Human Anatomy & Physiology	<b>ER91-14T. CO1:</b> Understand the structure and functions of the various organs of the human body.
	<b>ER91-14T. CO2:</b> Understand the various homeostatic mechanisms and their imbalance.
	<b>ER91-14T. CO3:</b> To appraise and correlate the homeostatic mechanisms of various physiological systems..
<b>ER91-13T</b> Pharmacognosy	<b>ER91-13T. CO1:</b> To explain the origin of drugs from natural sources with illustration of the role of natural products as the source of many drugs and pharmaceutical ingredients.
	<b>ER91-13T. CO2:</b> To explain collection and preparation of crude drugs for the market with different examples.

NAME OF THE COURSE WITH CODE	COURSE OUTCOME
<p><b>ER91-13T</b> Pharmacognosy</p>	<p><b>ER91-13T. CO3:</b> To attain Knowledge of the important natural products, their origin, properties and biological activity with anatomical study of the crude drugs.</p>
<p><b>ER91-12T</b> Pharmaceutical Chemistry I</p>	<p><b>ER91-12T.CO1:</b> To select inorganic drugs and pharmaceuticals accordingly their medicinal and pharmaceutical uses.</p>
	<p><b>ER91-12T.CO2:</b> To assess the purity by evaluating range the impurities in inorganic drugs and pharmaceuticals.</p>
	<p><b>ER91-12T.CO3:</b> To indentify inorganic pharmaceuticals from the knowledge of various tests.</p>
<p><b>ER91-11T</b> Pharmaceutics</p>	<p><b>ER91-11T. CO1:</b> Student can able to implement their concept and prepare different solid dosage forms.</p>
	<p><b>ER91-11T. CO2:</b> Students can able to implement their knowledge for proper utilization of various unit operations used in pharmaceutical industry.</p>
	<p><b>ER91-11T. CO3:</b> Students can able to utilize their idea for the Pharmaceutical packaging technology for different dosage forms.</p>
	<p><b>ER91-11T. CO4:</b> Student can utilize their knowledge in various sterilization processes and aseptic technique.</p>
<p><b>ER91-13P</b> Pharmacognosy Practical</p>	<p><b>ER91-13P. CO1:</b> To learn the usage of different instrument for identification of crude drugs.</p>
	<p><b>ER91-13P. CO2:</b> To identify the drugs from from natural origins.</p>
	<p><b>ER91-13P. CO3:</b> To apply different techniques in analyzing drugs from natural origins.</p>
<p><b>ER91-11P</b> Pharmaceutics Practical</p>	<p><b>ER91-11P. CO1:</b> Students can to able to prepare and evaluate different pharmaceutical dosage forms.</p>
	<p><b>ER91-11P. CO2:</b> Students can able to prepare and dispense parenteral products.</p>
	<p><b>ER91-11P. CO3:</b> Student can able to formulate various cosmetics products.</p>
<p><b>ER91-14P</b> Human Anatomy &amp; Physiology Practical</p>	<p><b>ER91-14P. CO1:</b> Evaluate the structure and functions of the various organs of the human body.</p>
	<p><b>ER91-14P. CO2:</b> Evaluate &amp; differentiate the various homeostatic mechanisms and their imbalance</p>
	<p><b>ER91-14P. CO3:</b> Evaluate, analyse and differentiate Perform the haematological tests and also record the blood pressure, heart rate, pulse rate and respiratory volumes</p>
<p><b>ER91-12P</b> Pharmaceutical Chemistry Practical I</p>	<p><b>ER91-12P. CO1:</b> To identify inorganic drugs and pharmaceuticals by using various chemicals method.</p>
	<p><b>ER91-12P. CO2:</b> To assess the purity by evaluating range the impurities in inorganic drugs and pharmaceuticals.</p>
	<p><b>ER91-12P. CO3:</b> To build an idea about quantitative analysis through performing assay of inorganic pharmaceuticals by carrying out various volumetric titrations.</p>