AVANTHI INSTITUTE OF PHARMACEUTICAL SCIENCES
Gunthapally (V), Hayathnagar (M) R. R. Dist.

Sl No	**PROGRAMME OUTCOMES-B. PHARM**
PO 1	**Pharmacy Knowledge**: Have sound knowledge of fundamental principles and their applications in the area of Pharmaceutical Sciences and Technology.
PO 2	**Practical Skill**: Develop an ability to use lab equipment and different kinds of simulation software with an in depth knowledge to design synthetic and analytical processes to perform experiments on synthesis, design, pharmaceutical analysis, pharmacological evaluation and formulation problems.
PO 3	**Professional Identity**:. Develop ability for in-depth analytical and critical thinking in order to identify, formulate and solve the issues related to Pharmaceutical Industry, Regulatory Agencies, and Hospital Pharmacy & Community Pharmacy.
PO 4	**Problem Solving**: Develop an ability to solve, analyze and interpret data generated from Formulation Development, Quality Control & Quality Assurance.
PO 5	**Communication**: Develop written and oral communication skills in order to communicate effectively the outcomes of the Pharmaceutical problems.
PO 6	**Planning Ability**: Have an ability to acquire sound knowledge in order to execute the responsibilities successfully towards developing expertise as per the needs of industry and academia.
PO 7	**Leadership Skills & Team Work** : Develop team spirit, apart from responding to the social needs and professional ethics
PO 8	**Life Long Learning**: Develop an aptitude for lifelong learning and continuous professional development.
PO 09	**The Pharmacist & Society**: Develop an understanding for the need of pharmaceutical sciences and technology towards giving quality life to people in society.
PO 10	**Environment & Sustainability**: Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

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Sl No	**Programme Outcomes – PHARM. D**
PO 1	**Patient/Pharmaceutical Care**: Provide high quality, evidence-based, patient-centered care in cooperation with patients, prescribers and members of the inter professional health care team
PO 2	**Medical and Science Foundations**: Demonstrate mastery and application of core knowledge and skills in relation to the evolving biomedical, clinical, epidemiological and social-behavioral sciences.
PO 3	**Practical Skill**: Evaluate practice and care, and promote continuous improvement in one's own patient care and pharmacy services
PO 4	**Practice Based Learning and Improvement**: : Demonstrate self-calibration skills and a commitment to the lifelong learning needed to provide high quality care
PO 5	**Planning Ability**: Effectively utilize information, informatics and technology to optimize learning and patient care
PO 6	**Communication** : Demonstrate effective interpersonal written and verbal skills, adapt to socioeconomic and cultural factors as well as situational applications
PO 7	**Professionalism**: Demonstrate exemplary professional, ethical and legal behaviors, complying with all federal, state and local laws and regulations related to pharmacy practice
PO 8	**Systems Based Practice and Management**: Demonstrate awareness and responsiveness to the system of health care, effectively utilizing systems of care to provide cost-effective, optimal care .

PROGRAM SPECIFIC OUTCOMES (PSOs):

PSO1: Able to apply the knowledge gained during the course of the program in drug discovery and development, their safety and efficacy and current technologies in Pharmaceutical industry

PSO 2: Able to apply the knowledge of ethical and management principles required to work in a team as well as to lead a team.

PSO 3: Able to do multidisciplinary jobs in the pharmaceutical industries and would be able to write effective project reports in multidisciplinary environment in the context of changing technologies.

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Sl No	**Programme Outcomes**
PO 1	**Pharmaceutical Sciences knowledge:** Apply the knowledge of mathematics, science, pharmaceutical fundamentals, and a Pharmacy specialization to the solution of complex Pharmaceutical problems.
PO 2	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO 3	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO 4	**Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO 5	**Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO 6	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO 7	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO 8	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes
PO 9	**Conduct investigations of complex problems:** To understand biopharmaceutical principles and pharmacokinetic principles through different compartment models, multiple dosage regimens, non-linear pharmacokinetics, and assessment of bioavailability and bioequivalence
PO 10	**Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PROGRAM SPECIFIC OUTCOMES

PS O1: To deal with various advanced instrumental techniques for identification, characterization, and quantification of drugs

PS O2: To understand validation and its application in industry, their methodologies and application in manufacturing processes

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Sl. No.	PROGRAM OUTCOMES-M. PHARM
PO 1	**Pharmaceutical Sciences knowledge**: Apply the knowledge of mathematics, science, pharmaceutical fundamentals, and a Pharmacy specialization to the solution of complex Pharmaceutical problems.
PO 2	**Physicochemical properties of Formulations**: The knowledge of importance of physical properties of the different pharmaceutical ingredients and the factors influencing them is very valuable for pharmaceutical dosage form design.
PO 3	**Unit Operations**: Pharm. Engineering renders knowledge about the basic unit operations that are taking place in pharmaceutical industry and the different factors associated with it. This information is useful for both pharmaceutics and pharmaceutical engineering.
PO 4	**Entrepreneurship:** The knowledge on different pharmaceutical dosage forms are imparted on students. This knowledge comes while handling a pharmacy or a manufacturing unit or in the further courses.
PO 5	**Design/Development of solutions:** The information on solid dosage forms like tablets and capsules, their formulation and quality control serves as an important perquisite for dosage form design.
PO 6	**Application oriented Knowledge:** The knowledge of biopharmaceutics enables the students to visualize the effect of pharmacokinetic (ADMET) parameters on the biological effect of the drug. The correlation of pharmacokinetics and pharmacodynamics is thus introduced and is experimentally explained to them.
PO 7	**Environment and Sustainability**: Enable extension of pharmaceutical dosage forms, and enables the students to learn about different packaging materials used in pharmaceutical industry and the factors governing their use.
PO 8	**Conduct investigations of complex problems:** To understand biopharmaceutical principles and pharmacokinetic principles through different compartment models, multiple dosage regimens, non-linear pharmacokinetics, and assessment of bioavailability and bioequivalence
PO 9	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO 10	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

PROGRAM SPECIFIC OUTCOMES

PSO1: Impart knowledge on the novel drug delivery systems, approaches, criteria for selection of polymers and drugs and their formulation and evaluation

PSO2: To impart knowledge and skills in generic drug development, various regulatory filings the approval process, and concept of generics across the globe