



MAHATHI COLLEGE OF PHARMACY

(Approved by AICTE, New Delhi & Affiliated to JNTU, Anantapur)
ACCREDITED BY NAAC ITH'A' GRADE

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MAHATHI COLLEGE
for Innovative Learning

1.3.2: Number of courses that include experiential learning through project work field work/ internship during the year 2023-24

As part of the curriculum enrichment and practical skill development initiatives, Mahathi College of Pharmacy has integrated mini-project-based learning into the B.Pharmacy and Pharm.D programs. These activities were designed to foster a deeper understanding of theoretical concepts and enhance research skills among students.

Program: B.Pharmacy		
S.no	Name of the Course	Mini projects done by the students
1.	Human Anatomy and Physiology - II	Study on the effect of exercise on heart rate and blood pressure in young adults.
2.	Instrumental Methods of Analysis	Development and validation of a UV-spectrophotometric method for the estimation of a drug sample.
3.	Physical Pharmaceutics - I	Formulation and evaluation of a fast-dissolving tablet for a common drug like paracetamol.
4.	Pharmaceutical Inorganic Chemistry	Analysis of fluoride content in drinking water from various sources.
5.	Pharmaceutical Organic Chemistry - II	Synthesis and characterization of aspirin using green chemistry techniques.
6.	Biochemistry	Study on the effect of various natural fruit extracts on blood glucose levels (in vitro).
7.	Pharmacology - I	Evaluation of the antipyretic effect of a herbal extract using yeast-induced fever models in rats.
8.	Pharmacognosy and Phytochemistry - I	Extraction and identification of phytochemicals from neem leaves.
9.	Industrial Pharmacy - I	Study on the effect of different polymers on the release rate of a drug from a matrix tablet.
10.	Biopharmaceutics and Pharmacokinetics	Comparative dissolution profile of branded versus generic formulations of a selected drug.
11.	Pharmaceutical Biotechnology	Production and purification of alcohol using yeast fermentation.
12.	Pharmacy Practice	Assessment of medication adherence among diabetic patients in a community pharmacy setting.
13.	Pharmaceutical Regulatory Science	Analysis of differences in regulatory requirements for drug approval in India and the USA.

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14.	Pharmacovigilance	Analysis of ADR reporting trends in a selected hospital over the past year.
15.	Environmental Sciences	Study on the disposal practices of expired and unused medications in households.
16.	Soft Skills & Professional Ethics	Assessment of communication skill improvement in students after a structured training program.
Program: Pharm.D		
17.	Human Anatomy & Physiology	<i>Study on the variation in pulse rate before and after different relaxation techniques among students.</i>
18.	Pharmaceutics	<i>Formulation and evaluation of a natural gel for wound healing using aloe vera extract.</i>
19.	Medicinal Biochemistry	<i>Effect of dietary habits on lipid profiles among young adults: A correlation study.</i>
20	Pharmaceutical Organic Chemistry	<i>Green synthesis of paracetamol and its quality evaluation.</i>
21	Pathophysiology	<i>Survey-based study on the prevalence of asthma triggers in a rural population.</i>
22	Pharmacology-II	<i>Evaluation of the analgesic effect of herbal extracts using in vivo models.</i>
23	Pharmacotherapeutics-I	<i>Assessment of antibiotic prescribing patterns for respiratory infections in a community pharmacy.</i>
24	Hospital Pharmacy	<i>Analysis of common dispensing errors in a hospital pharmacy and their preventive strategies.</i>
25	Pharmacoepidemiology and Pharmacoconomics	<i>Study of self-medication practices among college students.</i>
26	Clinical Research	<i>Designing a hypothetical clinical trial protocol for evaluating a new antihypertensive drug.</i>

Outcome and Impact:


These mini-projects encouraged critical thinking, analytical reasoning, teamwork, and practical problem-solving skills among students. Through real-world application of theoretical knowledge, students gained insights into research methodologies, ethical practices, and professional responsibilities. These initiatives also aligned with the institution's goals of promoting environmental sustainability, professional ethics, and social accountability, thereby contributing to overall student success and institutional excellence.

Note: The courses offered and the curriculum for B.Pharm, M.Pharm, and Pharm.D programs at Mahathi College of Pharmacy are strictly based on the guidelines prescribed by the **Pharmacy Council of India (PCI)**. The institution adheres to the syllabus and curriculum framework mandated by PCI, ensuring compliance with national standards.

Since the curriculum is developed and approved by PCI, the institution does not have the authority to modify or design new courses independently. Consequently, the mini-project-based activities mentioned earlier are conducted as additional initiatives to

enhance students' understanding and practical knowledge. These activities are aligned with the approved curriculum and serve as supplementary learning experiences rather than official components of the syllabus.

The institution's **Board of Studies (BOS)** ensures that all teaching, learning, and evaluation practices remain within the scope of the PCI-approved curriculum, thereby maintaining the integrity and standards of the academic programs.


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