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Instrument Handling

- This module is developed to gain knowledge in theory by taking part in the pragmatic learning in various laboratories located within the institute. Faculty have designed various experiments according to the syllabus by the JNTUK.
- Students gain practical knowledge through live activities and handling the instruments such as UV-Visible Spectrophotometry, HPLC, Dissolution, and GEL Electrophoresis Soxhlet, Hematocytometer, Hemoglobin Meter, Compound Microscope, Microbial Zone Reader, BOD Incubator, Auto Analyzer etc.

Module: This module developed on Instrument Handling makes students to

- 1. This module brings awareness in students on handling and calibrating various equipment's present in laboratories according to the SOPs.
- 2. To understand principle of operations, related to equipment's used in various experimentations.
- 3. Determining the percentage purity and content uniformity of different dosage forms.
- 4. To stabilize the new method and validate them according to the ICH guidelines.







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Animal Handling

The institute has created a separate module on animal handling in order to create awareness among students about different techniques in handling experimental animals. According to the latest PCI regulations all the UG experiments that have to be performed on animals are done by employing specialized animal simulation software's. Even though, students are using these simulation software's they should be aware of the different handling techniques so that the learning experience will never stop at the institution level.

Module: This module developed on Animal Handling makes students to

- 1. To understand the basic animal behavior during handling.
- 2. Selection of different animals for various pharmacological experiments.
- 3. To use appropriate, restrain techniques and equipment properly.
- 4. Maintaining safety measures and precautions during handling the animals.
- 5. Written plan regarding the complete procedure of the animal handling during experimentation.







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Project

Project is a module in which students gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging and complex question, problem, or challenge. This not only provides opportunities for students to collaborate or drive their own learning, but it also teaches them skills such as problem solving, and helps to develop additional skills integral to their future, such as critical thinking and time management. So, IV B. Pharmacy and II M. Pharmacy students are allotted with a project under the guidance of faculty and to be completed within an academic session. Marks are allotted to projects according to their project results, presentation and Viva-Voce.

Module: This module developed on Project makes students to

- 1. Writing the protocol in development of new research work.
- 2. To understand the problems that occur during the project work and to trouble shooting them.
- 3. Validation of new methods by checking the parameters present in the validated procedure.
- 4. Safety precautions and measures to be taken while doing the project work.
- 5. Publication of Research and Review articles of their projects by students in various national and international journals.







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Clinical Skills

- The institute has developed a module on Clinical Skills by allowing students to participate in ward rounds, medication history review, patient counseling, adverse drug reactions, drug-drug interactions, drug-food interactions and medication errors.
- A clinical skill is any discrete and observable act within the overall process of patient care. These cognitive skills are made observable (and therefore measurable/assessable) by being explicitly articulated or communicated either orally or in writing.
- This includes knowledge about the skill, including underlying theory behind the practice. In relation to procedural skills, it involves knowledge of indications, contraindications, potential complications and alternate strategies or approaches if the skill is unsuccessful or unable to be performed.
- In relation to procedural skills, it includes not only the procedure itself but also the post-procedure care of the patient and/or specimens obtained.

Module: The module developed on Clinical Skills makes students to

- 1. Demonstrate the ability to conduct a patient interview in an empathic and professional manner.
- 2. Demonstrate basic knowledge of how to collect the history of present illness and a social history.
- 3. Monitor drug therapy of patient through medication chart review and clinical review.
- 4. To obtain medication history interview and counsel the patients.
- 5. Identify and resolve drug related problems.
- 6. Detect, assess and monitor adverse drug reaction.
- 7. Interpret selected laboratory results (as monitoring parameters in therapeutics) of specific disease states; and retrieve, analyze, interpret and formulate drug or medicine information.







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Community Pharmacy Skills

- Community Pharmacy Skills, the module is developed by institute to learn and practice interpersonal communication skills during their community advanced pharmacy practice experience (APPE).
- It is a primary pillar in the education and training of all pharmacists, including to those that work in a Community Pharmacy, is the safe and effective use of medicine to improve patient outcome.
- > Checking the prescription from the doctor and preparing the medication for the patient.
- Making sure that the medications and doses are appropriate for the patient considering health factors and other medications.

Module: The module developed on Community Pharmacy Skills makes students to

- 1. Identify and retrieve any missing information upon receipt of a medication order.
- 2. Demonstrate familiarity with brand and generic drug names, appearance, manufacturer, dosage form(s), and route of administration for commonly-used drugs.
- 3. Completely, accurately and efficiently perform all steps involved in processing an outpatient prescription.
- 4. Design potential solutions for actual drug-related problems and follow up to determine whether the problems were resolved.
- 5. Adequately counsel a patient about basic drug-related information (name of drug, indication, directions, length of use, side effects, storage, and missed dose) after ascertaining what the patient already knows about the medication.
- 6. Communicate with patients about non-prescription drug products, devices, and diagnostics.







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INDUSTRIAL TRAINING

- The Institute has developed the Industrial training module, where a student undertakes a period of training at an organization usually during a semester break. It acts as an important part in preparing the student for a professional career. The student learns about the industrial demands, skill set and work ethics.
- Every year students experience industrial training as per the syllabus prescribed by JNTUK and gain knowledge of various departments like Quality Assurance, Quality control, Tablets, Capsules, Vaccine manufacturing, Analytical Research and Development, Clinical research, Drug Regulatory Affairs, Hospital Pharmacy etc.

Module: The module developed on Industrial Training makes students of:

- 1. To provide comprehensive learning platform to students where they can enhance their employ ability skills and become job ready along with real corporate exposure.
- 2. To enhance students' knowledge in one particular stream.
- 3. To Increase self-confidence of students and help in finding their own proficiency
- 4. To cultivate student's leadership ability and responsibility to perform or execute the given task.
- 5. To provide learners hands on practise within a real job situation.



