



## AL SHIFA COLLEGE OF PHARMACY

Kizhattur, Poonthavanam P.O, Perinthalmanna, Malappuram -679355

2.6.1 Programme and course outcomes for all programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Response:

The institution follows the program according to the specifications of the Kerala University of health sciences, and the course outcomes (CO) are defined in the syllabus as per the university. The program outcomes are all displayed on the website and will be attempted to best match the results of all programs with the university curriculum and additional activities. All courses offered are posted on the institution website that educates students on learning outcomes related to critical and analytical skills, creativity and problem-solving skills, interpersonal skills, and more and allows them to select a program of interest and understand how the program develops abilities, skills and abilities during learning. At the beginning of each module, the course outcomes be dictated and explained. The attainment of the CO is done by proper result analysis following internal and external examinations. The results of the courses will be reviewed periodically and are properly filed.

The assessment of the program and CO is done using direct and indirect tools.

### Direct tools

- Evaluation of the students' performance in internal examinations including sessional examination, class tests, surprise tests, assignments, etc
- External evaluation in the end semester/year-end examinations.

### Indirect tools

- Student participation
- Student placements
- Student feedbacks

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### PROGRAM SPECIFIC OUTCOMES

1. **EDUCATION:** Program graduates have a deep knowledge of pharmaceutical science and have the knowledge required by the pharmaceutical industry and/or laboratories.
2. **TECHNICAL SKILLS:** Providing students with the ability of various technical skills in different subjects such as pharmacy, medicinal chemistry, pharmacology, pharmacognosy, etc. and also helping them meet the requirements of the pharmaceutical industry, communities and hospital pharmacies and pursue a higher degree.
3. **DEPTH OF KNOWLEDGE:** Graduates are provided with up-to-date knowledge and necessary training.
4. **RESEARCH ANALYSIS:** Students could apply the knowledge they gained in the research fields to make discoveries.
5. **STUDENT PREPARATION:** Graduates are motivated to maximize their abilities in the graduate course and to succeed in the pharmaceutical / technical profession.
6. **APPLICATION OF KNOWLEDGE:** The students can relate to pharmaceutical technology they studied and the philosophy they observed in the field of pharmaceutical science.
7. **USE OF MODERN METHODS:** Create, select, and apply appropriate techniques, resources, and modern methods with an understanding of the limitations and its usage. The student also learns to handle many instruments that would help them to work in pharmaceutical industry, pharmacovigilance, pharmaceutical research, etc.

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8. **DESIGN & DEVELOPMENT OF DOSAGE FORMS:** Students are trained to prepare various dosage forms with ease.
9. **CLINICAL RESEARCH AND PHARMACOVIGILANCE:** Graduates will demonstrate the understanding of basic principles employed within clinical trials and pharmacovigilance, explain the key operational drug safety definitions, classify the adverse drug reactions and their mechanism, analyze the stages of drug development in terms of drug safety assessment and benefit risk.
10. **MOLECULAR DOCKING:** Students on completion of the course will be able to draw chemical structures of compounds by using software, prepare optimized ligand molecule, prepare crystal structure of receptors, able to carry out docking of compound on receptor and predict docking score. This will help in them in carrying out future resear



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### METHODS OF ASSESSMENT OF LEARNING OUTCOMES AND GRADUATE ATTRIBUTES

The assessment of the program and course outcome is done using direct and indirect tools

#### Direct tools

- Evaluation of the students' performance in internal examinations including sessional examination, class tests, surprise tests, assignments, etc
- External evaluation in the end semester/year-end examinations.

#### Indirect tools

- Student participation
- Student placements
- Student feedbacks

**1. Year-end and final exams:** A direct evaluation process whereby end semester and year-end exams are conducted by the university and the program results and outcome attainment is established and analyzed by the institution.

**2. Internal and External Assessment:** Students are subjected to periodical internal assessment, with two sessional exams for semester programmers and three sessional exams for year programmers. Students are also assessed by periodical seminars and assignments. External evaluation is carried out by outside experts for university-ordered practical examinations via Viva Voce and practical files.

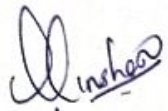
**3. Exams and tests at educational institutions:** Students' Unit tests, surprise tests and periodical tests are carried out to analyze the performance of the students and thereby assess the level of program outcomes and program-specific outcomes

**4. Feedback Rating:** Institutions collect feedback from students, graduates and employers and parents. This is an important way to measure performance and the attainment of goals. This also helps in determining student achievement levels related to programs, subjects, courses, and Understanding the outcomes of the curriculum and the impact of the educational learning process.

**5. Training:** Students are encouraged to do training, projects, field surveys and more, to help them acquire the necessary skills and hands-on experience in the chosen field.

**6. Placement:** This is one of the major program outcomes of the professional degree. The institution has vibrant placement cells that ensure successful employability after completing the course.

**7. Advanced Studies:** Other parameters used to measure PO, PSO, and CO achievement are by analyzing the transition from undergraduate to higher education in Indian educational institutions such as NIPER and other universities in India and abroad.

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### PROGRAM/LEARNING OUTCOMES AND GRADUATE ATTRIBUTES

- 1. PHARMACEUTICAL KNOWLEDGE:** graduates will demonstrate
  - Ability to integrate fundamental concepts from pharmacogenomics, medicinal chemistry, pharmacology, pharmacology, toxicology, therapeutics and pharmacokinetics.
  - Understanding of pharmaceutical quality control/assurance and pharmaceutical management issues

With this knowledge, graduates will be able to demonstrate a high level of understanding of the key stages in drug discovery, development, production and commercialization.
- 2. PLANNING SKILLS:** Graduates will develop planning and organizational skills, through academic and extracurricular activities, with the ability to efficiently complete assignments on time.
- 3. PROBLEM ANALYSIS:** Graduates will demonstrate the ability to consider drug/formulation problems in a rational and logical manner; acquiring, evaluating and synthesizing information and knowledge related to the problem; and make reasonable and ethical decisions.
- 4. USE MODERN TOOLS:** Graduates will demonstrate skills in using modern pharmaceutical tools, software and equipment for analysis and problem solving.
- 5. LEADING SKILLS:** Graduates will acquire knowledge of leadership traits and skills, harnessing interpersonal skills through extracurricular and co-curricular activities so that they have can lead or contribute effectively to the growth of the organization.
- 6. PROFESSIONAL IDENTITY:** Graduates will transition from student to professional who will clearly understand their roles and responsibilities as a healthcare professional.
- 7. PHARMACOLOGY:** Graduates will demonstrate sensitivity to personal values and ethics in professional activities and social contexts.
- 8. COMMUNICATION:** Graduates will listen, speak, and write effectively in a way that facilitates positive interactions with healthcare professionals, patients, and the public.
- 9. THE PHARMACIST AND THE SOCIETY:** Graduates will advance health through disease prevention and management programs and raise awareness about the safe and effective use of medicines.
- 10. ENVIRONMENTAL AND SUSTAINABLE:** Graduates will gain knowledge about the impact of pharmaceuticals on the environment; demonstrate an understanding of the appropriate methodological tools for the analysis and development of health products with the same medicinal value but with reduced environmental impact.
- 11. LIFE-LONG LEARNING:** Graduates will demonstrate recognition of the need and ability to engage in lifelong learning by staying up to date with current trends/regulations in the pharmaceutical sciences.

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