Raghavendra Institute of Pharmaceutical Education and Research (Autonomous)

Accorded Under 2(F) & 12(B) Of UGC, NBA & NAAC "B" Accredited Anantapuramu, Andhra Pradesh-515721

M. Pharmacy – Department of Pharmaceutical Analysis

Quality policy: Dedicated to strive for excellence in pharmaceutical analytical techniques and quality assurance area through continuous improvement in line with international federal regulations".

Programme Outcomes:

1. Design and conduct analytical experiments for effective quality control system.
2. Utilize tools and skills to perform analytical research work using modern techniques.
3. Use knowledge and abilities to solve problem in pharmaceutical quality system.
4. Engage in innovative activities through creative thinking to envision better ways of accomplishing professional goals.
5. Exhibit behaviour and moral values that required for a pharmaceutical analyst at the satisfaction of corporate industry, other health care providers.
6. Demonstrate the ability to work in team by combining individual strength, team dynamics and emotional intelligence.
7. Compare different techniques/technologies to assess and evaluate dosage forms for better quality.
8. Identify strategies for effective communication system to undertake multidisciplinary area at the interface of analytical method development.

Course outcomes:

Name of the course: Modern pharmaceutical analytical techniques (MPA 101T)
1. The analysis of various drugs in single and combination dosage forms
2. Theoretical and practical skills of the instruments

Name of the course: Advanced pharmaceutical analysis (MPA 102T)
1. Appropriate analytical skills required for the analytical method development.
2. Principles of various reagents used in functional group analysis that renders necessary support in research methodology and demonstrates its application in the practical related problems.
3. Analysis of impurities in drugs, residual solvents and stability studies of drugs and biological products.

Name of the course: Pharmaceutical validation (MPA 103T)
1. Explain the aspect of validation
2. Carryout validation of manufacturing processes
3. Apply the knowledge of validation to instruments and equipments
4. Validate the manufacturing facilities

Name of the course: Food analysis (MPA 104T)
1. Food constituents
2. Food additives
3. Finished food products
4. Pesticides in food
5. And also student shall have the knowledge on food regulations and legislations

Name of the course: Advanced instrumental analysis (MPA 201T)
1. interpretation of the NMR, Mass and IR spectra of various organic compounds
2. theoretical and practical skills of the hyphenated instruments
3. identification of organic compounds

Name of the course: Modern bio-analytical techniques (MPA 202T)
1. Extraction of drugs from biological samples
2. Separation of drugs from biological samples using different techniques
3. Guidelines for BA/BE studies.

Name of the course: Quality control and quality assurance (MPA 203T)
1. the cGMP aspects in a pharmaceutical industry
2. to appreciate the importance of documentation
3. to understand the scope of quality certifications applicable to Pharmaceutical industries
4. to understand the responsibilities of QA & QC departments

Name of the course: Herbal and cosmetic analysis (MPA 204T)
1. Determination of herbal remedies and regulations
2. Analysis of natural products and monographs
3. Determination of Herbal drug-drug interaction
4. Principles of performance evaluation of cosmetic products.