



## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

### CO PO Desired Mapping Report

**Year :** First Year - 1.1 (1 - Semester)

**Subject :** HUMAN ANATOMY AND PHYSIOLOGY-I - Theory

**Course Code :** BP101T

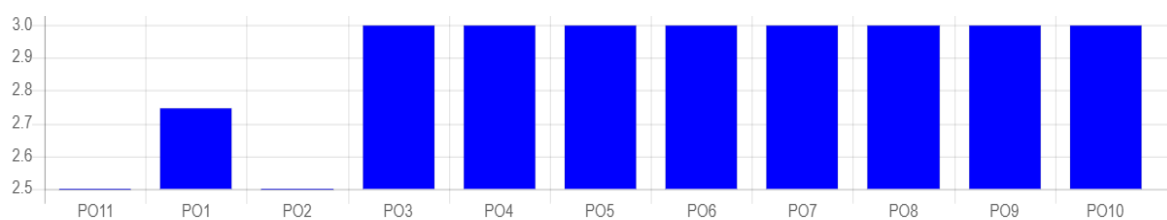
#### Course Outcome Details

#	Course Outcome	Description
1	CO 1	Introduction to human body Peripheral nervous system:
2	CO 2	Integumentary system Structure and functions of skin Skeletal system Divisions of skeletal system, types of bone, salient features and functions
3	CO 3	Body fluids and blood, Lymphatic system
4	CO 4	Tissue level of organization

#### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO 1	3	3	2	3	3	3	3	3	3	3	3
CO 2	3	3	3	3	3	3	3	3	3	3	3
CO 3	2	2	3	3	3	3	3	3	3	3	3
CO 4	2	3	2	3	3	3	3	3	3	3	3
Average	2.50	2.75	2.50	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

**Desired Attainment Average : 2.89**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** First Year - 1.1 (1 - Semester)

**Subject :** Pharmaceutical Analysis - Theory

**Course Code :** BP102T

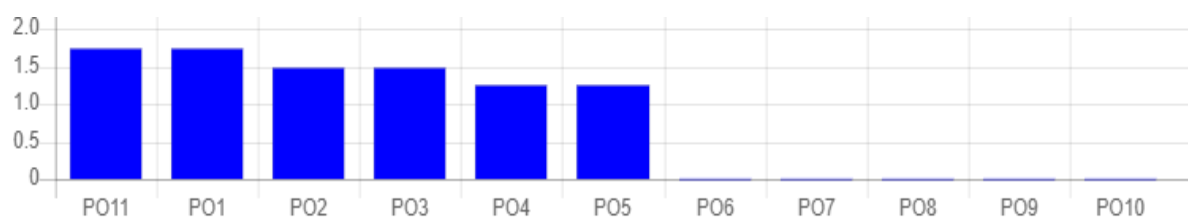
### Course Outcome Details

#	Course Outcome	Description
1	BP102T.1	To understand the different techniques of analysis, preparation and standardization of some important analytes.
2	BP102T.2	To understand the errors, sources of impurities and pharmacopoeia
3	BP102T.3	To understand the principles of volumetric analysis
4	BP102T.4	To understand the principles of electrochemical titrations

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
BP102T.1	2	2	1	1	2	1					
BP102T.2	1	1	2	2	1	1					
BP102T.3	3	1	1	2	1	2					
BP102T.4	1	3	2	1	1	1					
Average	1.75	1.75	1.50	1.50	1.25	1.25					

**Desired Attainment Average : 1.50**







# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B.Pharmacy

## CO PO Desired Mapping Report

**Year :** First Year - 1.1 (1 - Semester)

**Subject :** Pharmaceutical Inorganic Chemistry - Theory

**Course Code :** BP104T

### Course Outcome Details

#	Course Outcome	Description
1	CO1	Understand medicinal and pharmaceutical importance of inorganic compounds
2	CO2	Understand the tests of miscellaneous compounds
3	CO3	Know the sources of impurities
4	CO4	Know the methods to determine the impurities in inorganic drugs and pharmaceuticals
5	CO5	To Describe the properties, storage condition and application of radiopharmaceuticals
6	CO6	Know the method of preparation, assay, properties, medicinal uses of dental products. Know the major extra and intracellular electrolytes.

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	2	1	2	1	2	2			1	1
CO2	1	2	3	2	2	1	1			1	1
CO3	2	2	1	2	2	2	1	1			1
CO4	2	3	2	1	3	1	1				
CO5	2	2	3	2	2	2	1			1	
CO6	1	2	1	2	1	1	1			1	1
Average	1.67	2.17	1.83	1.83	1.83	1.50	1.17	1.00		1.00	1.00

**Desired Attainment Average : 1.50**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** First Year - 1.1 (1 - Semester)

**Subject :** Communication Skills - Theory

**Course Code :**BP105T

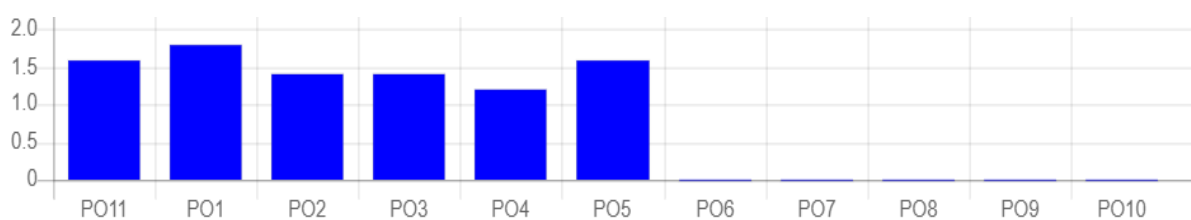
### Course Outcome Details

#	Course Outcome	Description
1	co1	Recognize phonemes for proper articulation of words
2	CO2	Develop interview skills
3	CO3	Develop Leadership qualities and essentials
4	CO4	Effectively manage the team as a team player
5	CO5	Communicate effectively (Verbal and Non Verbal)

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
co1	1	2	2	1	1	2					
CO2	2	1	1	2	1	1					
CO3	2	3	1	1	2	2					
CO4	2	1	2	2	1	1					
CO5	1	2	1	1	1	2					
Average	1.60	1.80	1.40	1.40	1.20	1.60					

**Desired Attainment Average : 1.50**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** First Year - 1.1 (1 - Semester)

**Subject :** Remedial Biology - Theory

**Course Code :** BP106RBT

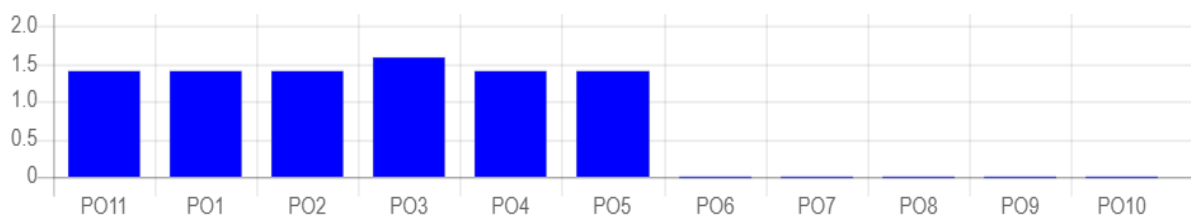
### Course Outcome Details

#	Course Outcome	Description
1	CO1	To Know Cell biology ( Basic Nature of Plant cell and Animal cell)
2	CO2	To understand Classification System of both Plants & Animals
3	CO3	To Study Various tissue system and organ system in plant and animals
4	CO4	To know the Theory of evolution
5	CO5	To Understand Anatomy and Physiology of plants and animals

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	1	1	2	2	2					
CO2	1	2	1	2	1	1					
CO3	1	1	2	2	1	2					
CO4	2	1	2	1	2	1					
CO5	2	2	1	1	1	1					
Average	1.40	1.40	1.40	1.60	1.40	1.40					

**Desired Attainment Average : 1.43**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** First Year - 1.1 (1 - Semester)

**Subject :** Remedial Mathematics - Theory

**Course Code:** BP106RMT

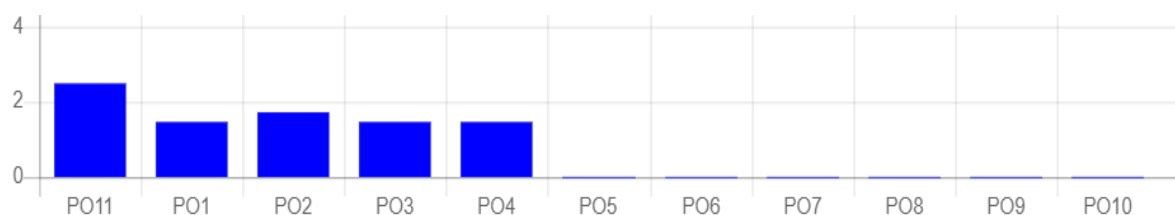
### Course Outcome Details

#	Course Outcome	Description
1	CO1	To Know how to Apply mathematical concepts and principles to perform computations for Pharmaceutical Sciences.
2	CO2	To know how to Create, use and analyze mathematical representations and mathematical relationships
3	CO3	To Communicate mathematical knowledge and understanding to help in the field of Clinical Pharmacy
4	CO4	To Perform abstract mathematical reasoning

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	2	2	2	2						
CO2	2	1	2	1	1						
CO3	3	2	2	2	2						
CO4	3	1	1	1	1						
Average	2.50	1.50	1.75	1.50	1.50						

### Desired Attainment Average : 1.75



## CO PO Desired Mapping Report

**Year :** First Year - 1.2 semester ( 2021-2022)

**Subject :** Human Anatomy and physiology-II - Theory

**Course Code :** BP201T

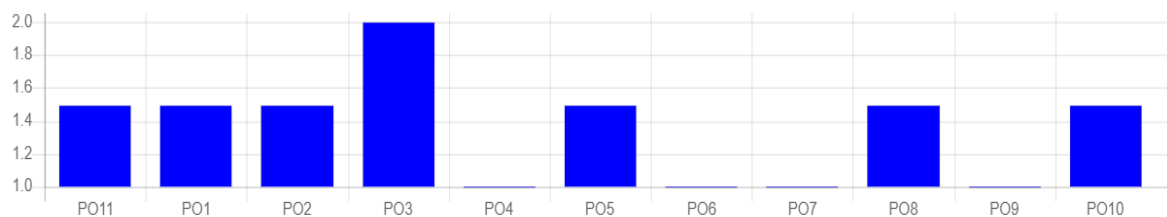
### Course Outcome Details

#	Course Outcome	Description
1	CO1	Fundamental knowledge on the structure and functions of the various systems of the human body
2	CO2	The basic knowledge required to understand the various disciplines of pharmacy.

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	1	1	2	1	2	1	1	2	1	2
CO2	2	2	2	2	1	1	1	1	1	1	1
Average	1.50	1.50	1.50	2.00	1.00	1.50	1.00	1.00	1.50	1.00	1.50

**Desired Attainment Average : 1.36**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B.Pharmacy

## CO PO Desired Mapping Report

**Year :** First Year - 1.2 (2 - Semester) 2020-2021

**Subject :** Pharmaceutical Organic chemistry-I - Theory

**Course Code :** BP202T

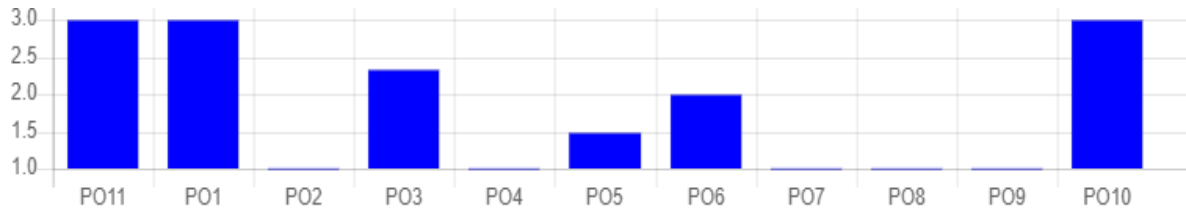
### Course Outcome Details

#	Course Outcome	Description
1	CO1	Classify organic compounds and name different organic compounds by applying systematic IUPAC nomenclature.
2	CO2	Understand and gain knowledge on certain organic reactions, predict the products of the reaction and explain the mechanism involved in the reaction.
3	CO3	Account for reactivity and stability of organic intermediates and compounds.
4	CO4	Write the reaction, name the reaction and write the orientation of reaction by applying a few principles like saytzeffs rule, markonikovs rule etc..
5	CO5	Learn the structure, method of preparation and uses of certain organic compounds .
6	CO6	Understand the relation to structure and acidity or basicity of certain class of organic compounds like carboxylic acids and amines.

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	3	1	2	2	1	1	1	3
CO2	3	3	1	3	1	2	2	1	1	1	3
CO3	3	3	1	2	1	2	2	1	1	1	3
CO4	3	3	1	2	1	1	2	1	1	1	3
CO5	3	3	1	2	1	1	2	1	1	1	3
CO6	3	3	1	2	1	1	2	1	1	1	3
Average	3.00	3.00	1.00	2.33	1.00	1.50	2.00	1.00	1.00	1.00	3.00

Desired Attainment Average : 1.80





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** 1.2 (2 - Semester)

**Subject :** Biochemistry - Theory

**Course Code:** BP203T

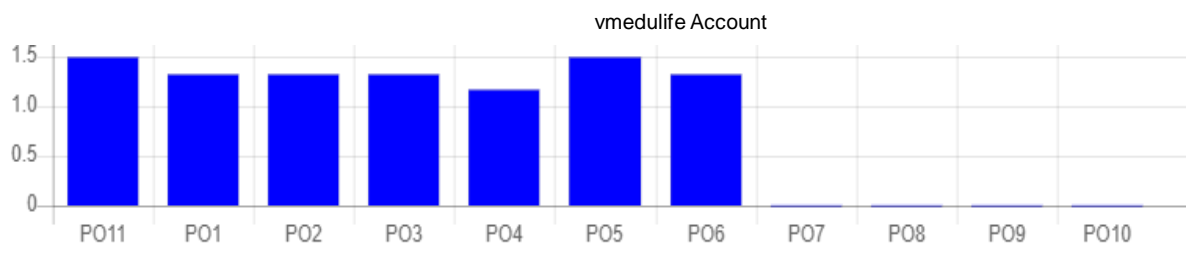
### Course Outcome Details

#	Course Outcome	Description
1	CO1	Define the basic concepts in medicinal biochemistry and clinical chemistry
2	CO2	Apply concepts and knowledge of medicinal biochemistry to clinical scenarios
3	CO3	Critically interpret how the biomolecules acts on the body and its mechanisms
4	CO 4	Link the biochemical reactions and pathways of several diseases
5	CO5	Explain the common laboratory values in clinical chemistry.
6	CO 6	Use the scientific laboratory equipment in order to gather and analyze data on medicinal biochemistry

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	1	1	1	1	1	1				
CO2	1	2	2	1	1	2	1				
CO3	1	1	1	2	2	1	1				
CO 4	3	1	1	1	1	2	2				
CO5	2	2	2	1	1	1	2				
CO 6	1	1	1	2	1	2	1				
Average	1.50	1.33	1.33	1.33	1.17	1.50	1.33				

**Desired Attainment Average : 1.36**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** First Year - 1.2 semester ( 2021-2022)

**Subject :** Pathophysiology - Theory

**Course Code:** BP204T

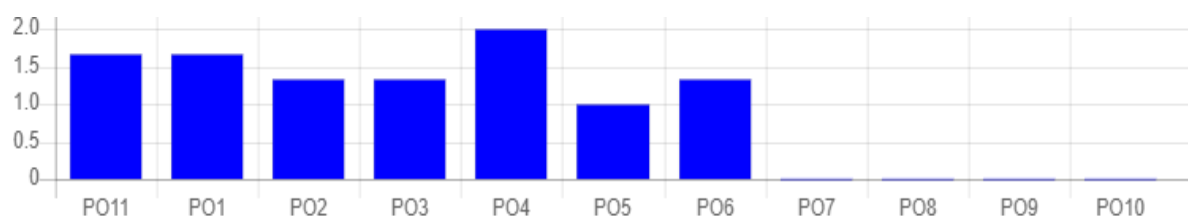
### Course Outcome Details

#	Course Outcome	Description
1	CO1	STUDENT SHOULD KNOW ABOUT THE ETIOLOGY AND PATHOGENESIS OF SELECTED DISEASE
2	CO2	NAME THE SIGNS AND SYMPTOMS OF VARIOUS DISEASES
3	CO3	STUDENT SHOULD KNOW ABOUT THE COMPLICATIONS OF THE DISEASE

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	1	2	1	3	1	1				
CO2	2	2	1	2	1	1	2				
CO3	2	2	1	1	2	1	1				
Average	1.67	1.67	1.33	1.33	2.00	1.00	1.33				

**Desired Attainment Average : 1.48**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** First Year - 1.2 semester

**Subject :** Computer Applications in Pharmacy - Theory

**Course Code :** BP205T

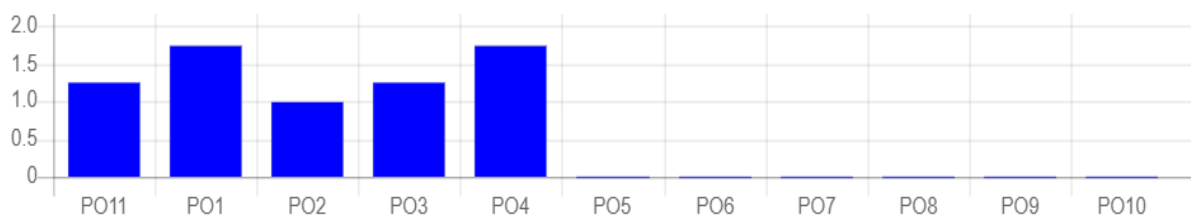
### Course Outcome Details

#	Course Outcome	Description
1	CO1	.Apply the knowledge of mathematics and computing fundamentals to pharmaceutical applications for any given requirement
2	CO2	Design and develop solutions to analyze pharmaceutical problems using computers.
3	CO3	Integrate and apply efficiently the contemporary IT tools to all Pharmaceutical related activities
4	CO4	Solve and work with a professional context pertaining to ethics, social, cultural and regulations with regard to Pharmacy .

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	2	1	1	2						
CO2	1	2	1	1	2						
CO3	2	1	1	2	2						
CO4	1	2	1	1	1						
Average	1.25	1.75	1.00	1.25	1.75						

**Desired Attainment Average : 1.40**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** First Year - 1.2 (2 - Semester)

**Subject :** Environmental sciences - Theory

**Course Code:**206T

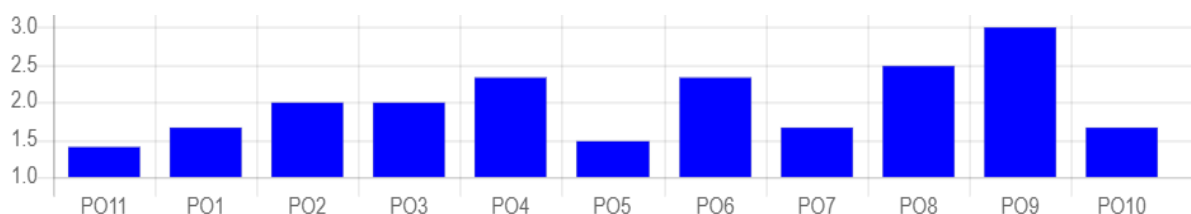
### Course Outcome Details

#	Course Outcome	Description
1	CO1	Acquired basic knowledge of environment and its related problems
2	CO2	Developed concern for the environment.
3	CO3	Ready to participate in environment protection and environment improvement activities.
4	CO4	Acquired skills to identify and solve environment problems.
5	CO5	Strive to attain harmony with Nature.

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	2	1		3		2		3		1
CO2	2		3	1		1	2	1	2		2
CO3	1	2		2	1		3				
CO4	2		2		3			1		3	
CO5	1	1		3		2		3			2
Average	1.40	1.67	2.00	2.00	2.33	1.50	2.33	1.67	2.50	3.00	1.67

**Desired Attainment Average : 2.01**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** 2.1 ( 1 - Semester)

**Subject :** PHARMACEUTICAL ORGANIC CHEMISTRY II - Theory

**Course Code :** BP301T

### Course Outcome Details

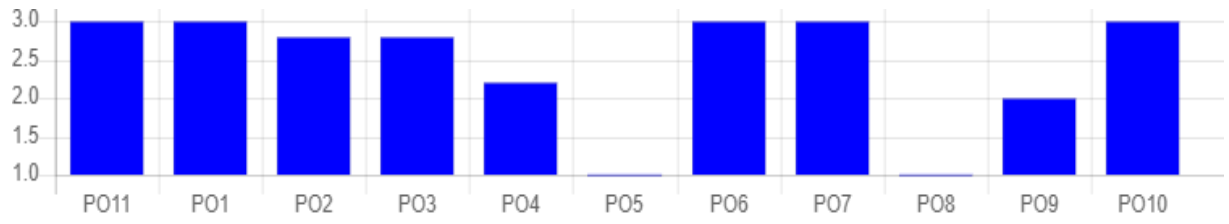
#	Course Outcome	Description
1	co1	Emphasis on aromatic compounds chemistry
2	co2	Write the structure , name and the type of isomerism of the organic compound
3	co3	Write the reaction, name the reaction and orientation of reaction
4	co4	account for reactivity or stability of compounds
5	co5	identify / cofirm the identification of organic compound

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
co1	3	3	2	2	2	1	3	3	1	2	3
co2	3	3	3	3	2	1	3	3	1	2	3
co3	3	3	3	3	2	1	3	3	1	2	3
co4	3	3	3	3	2	1	3	3	1	2	3
co5	3	3	3	3	3	1	3	3	1	2	3
Average	3.00	3.00	2.80	2.80	2.20	1.00	3.00	3.00	1.00	2.00	3.00

**Desired Attainment Average : 2.44**

vmedulife Account





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Second Year - 2.1 (1 - Semester)

**Subject :** PHYSICAL PHARMACEUTICS - I - Theory

**Course Code :** BP302T

### Course Outcome Details

#	Course Outcome	Description
1	BP302T1	Understand various physico chemical properties of drug molecules in the designing the dosage forms
2	BP302T2	Know the principles of chemical kinetics & to use them for stability testing and determination of expiry date of formulations
3	BP302T3	Demonstrate use of physico chemical properties in the formulation development and evaluation of dosage forms.
4	BP302T4	It is to study the effects of dosage forms have on their environment by addressing issues at the molecular level
5	BP302T5	It emphasis on the physical characteristics and actions of the drug delivery system before the same is given to the patient

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
BP302T1		1	3	1							
BP302T2		1	1	2							
BP302T3					2	2	1				
BP302T4					1	1	3				
BP302T5					2	1	2				
Average		1.00	2.00	1.50	1.67	1.33	2.00				

**Desired Attainment Average : 1.58**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

## B.Pharmacy

### CO PO Desired Mapping Report

**Year:** Second Year- 2.1(1-Semester)

**Subject:** Pharmaceutical Microbiology-Theory

**Course Code :** BP303T

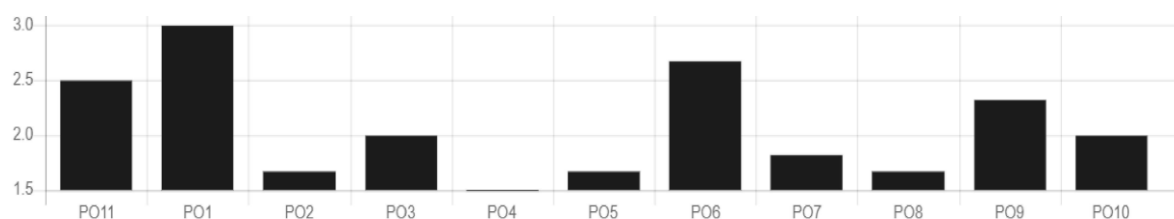
#### Course Outcome Details

#	Course Outcome	Description
1	CO1	Elucidate the historical development, structural features, biology and characteristics of important microbes and understand the methods of identification, cultivation and preservation of various microorganisms.
2	CO2	To learn the importance of sterilization in microbiology and pharmaceutical industry, its classification, mechanism of action & effectiveness of disinfectants & sterilization processes & their importance.
3	CO3	To learn sterility testing of pharmaceutical products and understand the microbiological standardization of pharmaceuticals.
4	CO4	To understand the cell culture technology and its applications in pharmaceutical industries.
5	CO5	Understand aseptic procedure for bacteriological media preparation & isolation of microbes by streak & pour plate technique and elucidate the morphology of bacteria by simple staining, negative staining & gram staining and motility by hanging drop technique.
6	CO6	To understand the biochemical tests such as IMViC test, minimum inhibitory concentration, microbioassay of antibiotics & bacteriological analysis of water.

#### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	3	1	2	2	1	2	1	1	2	1
CO2	3	3	1	2	2	1	3	3	1	2	2
CO3	3	3	1	2	2	1	3	2	1	3	2
CO4	3	3	1	2	1	2	2	3	3	2	3
CO5	2	3	3	2	1	3	3	1	1	2	2
CO6	2	3	3	2	1	2	3	1	3	3	2
Average	2.50	3.00	1.67	2.00	1.50	1.67	2.67	1.83	1.67	2.33	2.00

**Desired Attainment Average : 2.08**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Second Year - 2.1 (1 - Semester)

**Subject :** PHARMACEUTICAL ENGINEERING - Theory

**Course Code :** BP304T

### Course Outcome Details

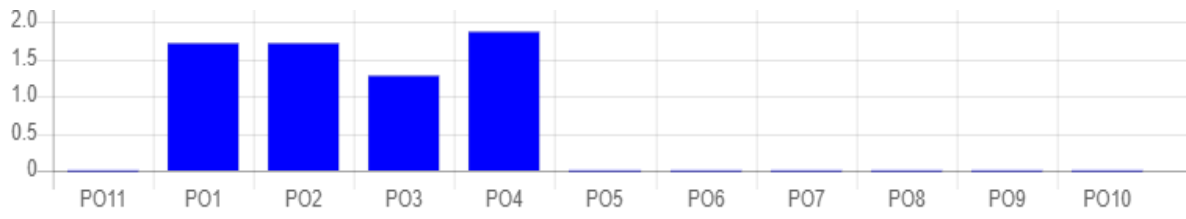
#	Course Outcome	Description
1	BP304T.1	To know various unit operations used in Pharmaceutical industries
2	BP304T.2	To understand the material handling techniques
3	BP304T.3	To perform various processes involved in pharmaceutical manufacturing process
4	BP304T.4	Describe phenomenon of size reduction and separation as well as evaporation for effective practices on pharmaceutical field
5	BP304T.5	Analyze fundamentals of centrifuge for particle separation as well as mixer for particle mixing in pharmacy practice
6	BP304T.6	To appreciate and comprehend significance of plant lay out design for optimum
7	Bp304T.7	To appreciate the various preventive methods used for corrosion control in 8. Pharmaceutical industries

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
BP304T.1		2	2	1	1						
BP304T.2		2	1	1	1						
BP304T.3		1	3	1	2						
BP304T.4		2	2	2	1						
BP304T.5		2	2	1	3						
BP304T.6		1	1	2	3						
Bp304T.7		2	1	1	2						

Average		1.71	1.71	1.29	1.86						
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**Desired Attainment Average : 1.64**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Second Year - 2.2 (2 - Semester)

**Subject :** Pharmaceutical Organic Chemistry III - Theory

**Course Code :** BP401T

### Course Outcome Details

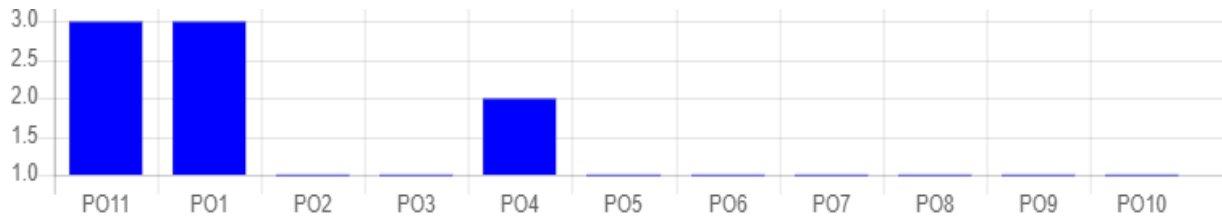
#	Course Outcome	Description
1	CO1	Outline the molecular attributes that generate chirality, stereoisomers, enantiomers, diastereomers, meso compounds, optical activity and racemic mixtures and also to describe the relationship that exists between the optical rotation and specific rotation of chiral substances, achiral substances and racemic mixtures
2	CO2	Apply the Cahn Ingold Prelog Rules to assign stereo chemical configuration to perspective drawings, Newman projections and Fischer projections and Predict the maximum number of stereoisomers in a compound and the stereochemical outcome of stereospecific reactions
3	CO3	Ascertain the geometric configuration (cis or trans and/or E or Z) of disubstituted cycloalkanes and analyze their relationship to biological activity
4	CO4	Predict the relative stability of alkane and substituted alkane conformers , substituted cyclohexane conformers Naming heterocyclic compounds using Hantzsch – Widman systematic nomenclature
5	CO5	To acquire the knowledge and understanding of the basic principles of different heterocyclic compounds and their importance as lead molecules in drug discovery.
6	CO6	To acquire knowledge on different reagents of synthetic importance, understand their mechanism and predict the products of different synthetic reactions.

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	1	2	1	1	1	1	1	1

CO2	3	3	1	1	2	1	1	1	1	1	1
CO3	3	3	1	1	2	1	1	1	1	1	1
CO4	3	3	1	1	2	1	1	1	1	1	1
CO5	3	3	1	1	2	1	1	1	1	1	1
CO6	3	3	1	1	2	1	1	1	1	1	1
Average	3.00	3.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00

**Desired Attainment Average : 1.45**





Vikas Institute of Pharmaceutical Sciences, Rajahmundry  
B.Pharmacy

CO PO Desired Mapping Report

Year: Second Year-2.2(2-Semester)

Subject: Medicinal Chemistry-I-Theory

Course Code: BP402T

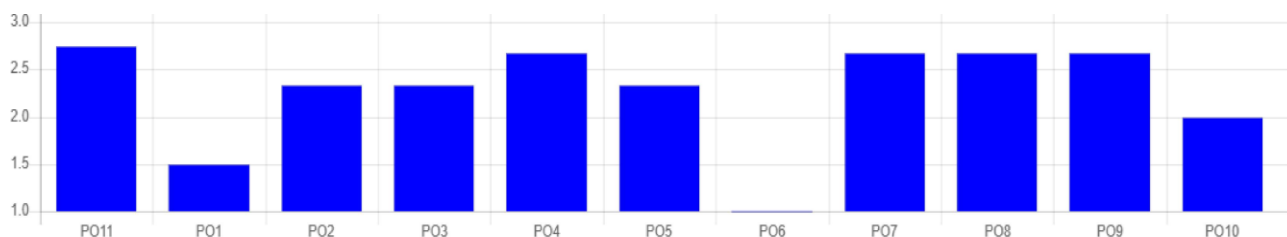
Course Outcome Details

#	Course Outcome	Description
1	CO1	understand the chemistry of drugs with respect to their pharmacological activity
2	CO2	understand the drug metabolic pathways, adverse effect and therapeutic value of drugs
3	CO3	know the Structural Activity Relationship (SAR) of different class of drugs
4	CO4	write the chemical synthesis of some drugs

Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3		2	1		2	1	3		3	
CO2	3	1	3	3	3	3		2	3	2	2
CO3	2			3	3	2			3		
CO4	3	2	2		2			3	2	3	2
Average	2.75	1.50	2.33	2.33	2.67	2.33	1.00	2.67	2.67	2.67	2.00

Desired Attainment Average : 2.27





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Second Year - 2.2 (2 - Semester)

**Subject :** Physical Pharmaceutics II - Theory

**Course Code :** BP403T

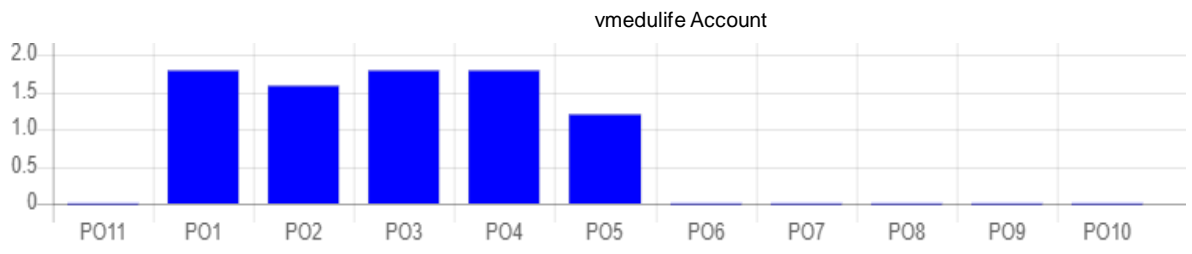
### Course Outcome Details

#	Course Outcome	Description
1	CO5	To know the principles of Chemical kinetics & to use them for Stability testing and determination of expiry date
2	CO3	To understand the use of Physicochemical Properties in the formulation development and evaluation of dosage forms
3	CO2	Understand the role of surfactants and thermodynamics
4	CO4	The students will get knowledge as well as hands on training with respect to the principles of formulation science such as kinetics, micromeritics, diffusion and dissolution, colloids, rheology, etc
5	CO1	Students will be able to assess particle size, shape and surface area & develop analytical skills in physics of particle

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO5		1	1	1	1	1					
CO3		2	2	2	1	1					
CO2		3	1	2	3	1					
CO4		2	1	1	3	1					
CO1		1	3	3	1	2					
Average		1.80	1.60	1.80	1.80	1.20					

**Desired Attainment Average : 1.64**





## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B.Pharmacy

### CO PO Desired Mapping Report

**Year :** Second Year - 2.2 (2 - Semester)

**Subject :** Pharmacology I - Theory

**Course Code :** BP 404 T

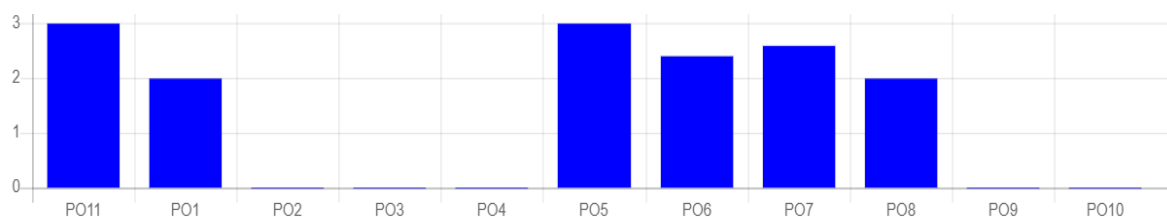
#### Course Outcome Details

#	Course Outcome	Description
1	CO 1	To understand the general aspects of pharmacology
2	CO 2	To understand detailed pharmacodynamics and related drug action
3	CO 3	To understand the pharmacological actions of different categories of drugs in ANS
4	CO 4	To understand the molecular mechanism of action of drug at organ system level in CNS
5	CO 5	To understand the pharmacological aspects of drugs acting on CNS

#### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO 1	3	2				3	2	3	2		
CO 2	3	2				3	2	3	2		
CO 3	3	2				3	2	3	2		
CO 4	3	2				3	3	2	2		
CO 5	3	2				3	3	2	2		
Average	3.00	2.00				3.00	2.40	2.60	2.00		

**Desired Attainment Average : 2.50**





## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

### CO PO Desired Mapping Report

**Year :** Second Year - 2.2 (2 - Semester)

**Subject :** PHARMACOGNOSY - Theory

**Course Code :** BP405T

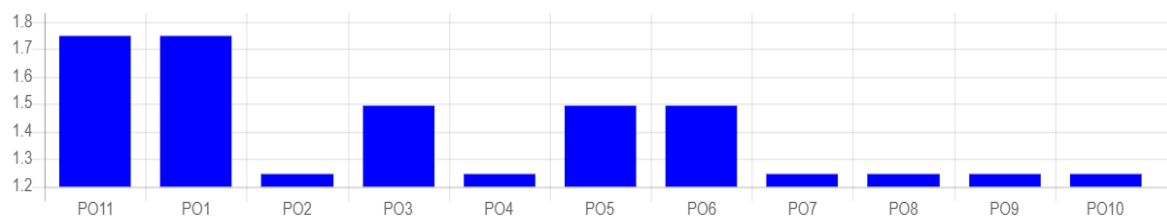
#### Course Outcome Details

#	Course Outcome	Description
1	CO1	Introduction to Pharmacognosy:Classification of drugs:Quality control of Drugs of NaturalOrigin:
2	CO2	the student shall be able to know the techniques in the cultivation and production of crude drugs
3	CO3	Historical development of plant tissue culture, types of cultures, Nutritional requirements,growth and their maintenance.
4	CO4	Study of biological source, chemical nature and uses of drugs of natural origin

#### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	1	1	1	1	1	1	1	1	2	1
CO2	2	2	2	2	1	2	2	1	1	1	1
CO3	2	2	1	2	1	2	1	2	1	1	1
CO4	2	2	1	1	2	1	2	1	2	1	2
Average	1.75	1.75	1.25	1.50	1.25	1.50	1.50	1.25	1.25	1.25	1.25

**Desired Attainment Average : 1.41**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Third Year - 3.1 (1 - Semester)

**Subject :** Medicinal Chemistry-II - Theory

**Course Code :** BP501T

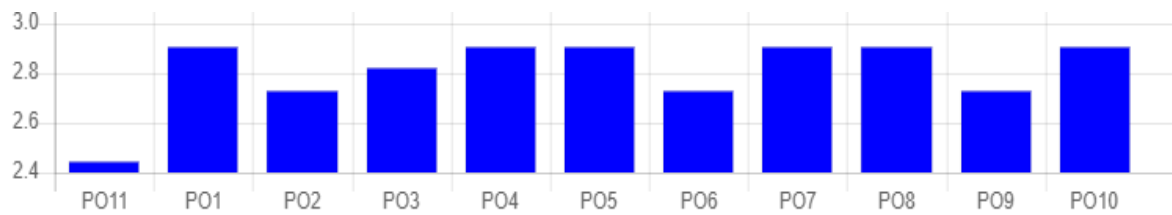
### Course Outcome Details

#	Course Outcome	Description
1	BP501T.1	students will learn about the importance of basic chemical moiety for the activity of drugs and to know the medicinal uses
2	BP501T.2	Students will know how the drugs will show pharmacological action by studying Mechanism of Action
3	BP501T.3	To understand about the Changes in the chemical moiety effect on the activity of the drugs e.g: duration of action, increase in solubility etc
4	BP501T.4	To understand about the classification of the drugs
5	BP501T.5	To know about simple synthesis of the compounds so that can be applied for further synthesis for simple modifications of the drugs can be done
6	BP501T.6	Understand drugs acting on Cardiovascular systems: Anti-anginal, Vasodilators, Calcium channel blockers, Diuretics
7	BP501T.7	Describe drugs used as Anti histamines, anti diabetic agents & cytotoxic agents
8	BP501T.8	Learn Anti-hypertensive Agents, Anti-arrhythmic Drugs Anti-hyperlipidemic agents Coagulant & Anticoagulants, Drugs used in Congestive Heart Failure
9	BP501T.9	Understand drugs acting on Endocrine system : Sex hormones, Drugs for erectile dysfunction Oral contraceptives, Corticosteroids, Thyroid and antithyroid drugs & Local anesthetics
10	BP501T.1	students will learn about the importance of basic chemical moiety for the activity of drugs and to know the medicinal uses
11	BP501T.2	Students will know how the drugs will show pharmacological action by studying Mechanism of Action

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
BP501T.1	3	3	3	3	3	3	3	3	3	3	3
BP501T.2	2	3	3	3	3	3	3	2	3	2	3
BP501T.3	3	3	3	3	3	3	3	3	3	3	3
BP501T.4	3	3	3	2	3	3	2	3	3	3	3
BP501T.5	2	3	3	3	3	2	3	3	3	2	3
BP501T.6	3	3	3	2	3	3	3	3	3	3	3
BP501T.7	1	3	3	3	3	3	3	3	3	3	3
BP501T.8	3	3	1	3	3	3	2	3	2	3	2
BP501T.9	2	3	3	3	3	3	3	3	3	3	3
BP501T.1	2	2	3	3	2	3	2	3	3	2	3
BP501T.2	3	3	2	3	3	3	3	3	3	3	3
Average	2.45	2.91	2.73	2.82	2.91	2.91	2.73	2.91	2.91	2.73	2.91

**Desired Attainment Average : 2.81**









## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

### CO PO Desired Mapping Report

**Year :** Third Year - 3.1 (1 - Semester)

**Subject :** Pharmacology - II - Theory

**Course Code :** BP503T

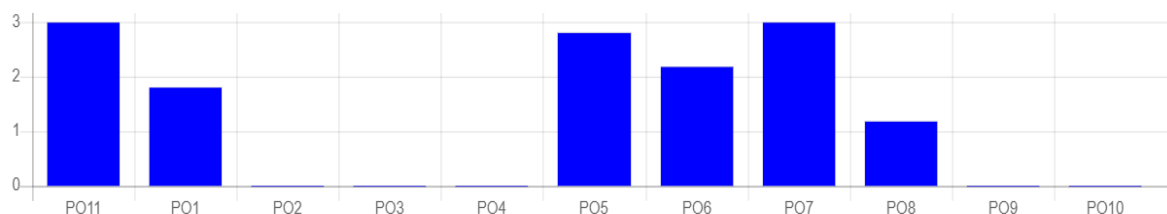
#### Course Outcome Details

#	Course Outcome	Description
1	CO 1	To acquire knowledge on the pharmacology of cardiovascular drugs
2	CO 1	To acquire knowledge on the pharmacology of cardiovascular drugs
3	CO 2	To gain pharmacological knowledge on cardiovascular drugs and diuretics
4	CO 3	To acquire knowledge on autocooids and related drugs
5	CO 4	To gain knowledge on the pharmacology of Endocrine system
6	CO 5	To gain knowledge on endocrine pharmacology and Bioassays

#### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO 1	3	1				3	2	3	1		
CO 1											
CO 2	3	2				2	3	3	1		
CO 3	3	2				3	2	3	1		
CO 4	3	2				3	2	3	1		
CO 5	3	2				3	2	3	2		
Average	3.00	1.80				2.80	2.20	3.00	1.20		

**Desired Attainment Average : 2.33**







# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B.Pharmacy

## CO PO Desired Mapping Report

**Year :** Third Year - 3.1 (1 - Semester)

**Subject :** Pharmaceutical Jurisprudence - Theory

**Course Code :** BP505T

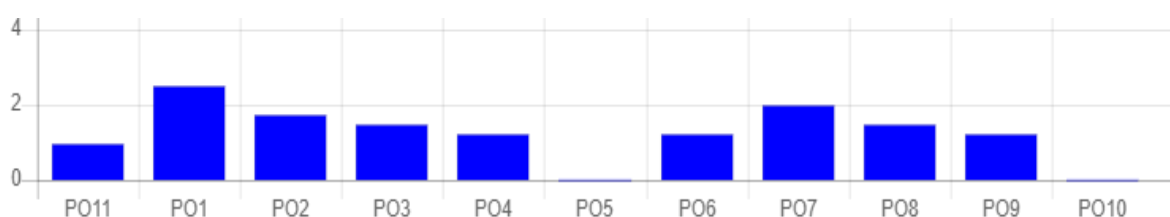
### Course Outcome Details

#	Course Outcome	Description
1	CO1	The code of ethics during the pharmaceutical practice
2	CO2	Various Indian pharmaceutical acts and laws
3	CO3	The regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals
4	CO4	The pharmaceutical legislations in the development and marketing of pharmaceuticals

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	3	2	1	1		1	3	1	2	
CO2	1	2	1	1	1		2	3	1	1	
CO3	1	2	1	3	2		1	1	1	1	
CO4	1	3	3	1	1		1	1	3	1	
Average	1.00	2.50	1.75	1.50	1.25		1.25	2.00	1.50	1.25	

**Desired Attainment Average : 1.56**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Third Year - 3.2 (2 - Semester)

**Subject :** Medicinal Chemistry III - Theory

**Course Code :** BP601T

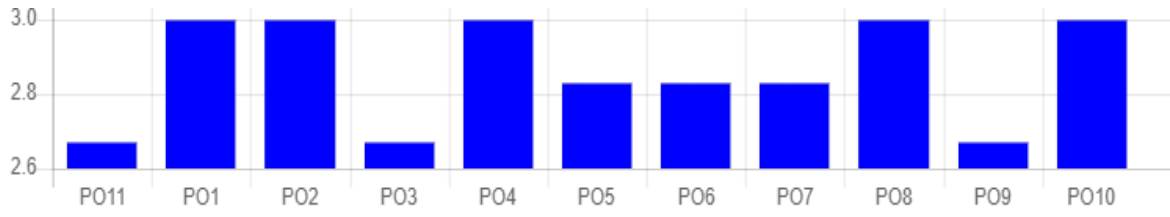
### Course Outcome Details

#	Course Outcome	Description
1	CO1	Understand how current drugs were developed by using pharmacophore modeling and docking technique.
2	CO2	Acquire knowledge in the chemotherapy of microbial diseases and different anti-viral agents.
3	CO3	Know about antibiotics and their structure activity relation and learn about the new generation antibiotics
4	CO4	Acquire knowledge about the mechanism pathways of different class of medicinal compounds
5	CO5	Have introduced to a variety of drug classes and some pharmacological properties and under the synthesis of important compounds
6	CO6	Acquire knowledge on thrust areas for further research

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	3	3	3	3	3	3	3	3
CO2	2	3	3	3	3	3	3	2	3	2	3
CO3	3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	2	3	3	2	3	3	3	3
CO5	2	3	3	3	3	2	3	3	3	2	3
CO6	3	3	3	2	3	3	3	3	3	3	3
Average	2.67	3.00	3.00	2.67	3.00	2.83	2.83	2.83	3.00	2.67	3.00

Desired Attainment Average : 2.86





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Third Year - 3.2 (2 - Semester)

**Subject :** Pharmacology III - Theory

**Course Code :** BP602T

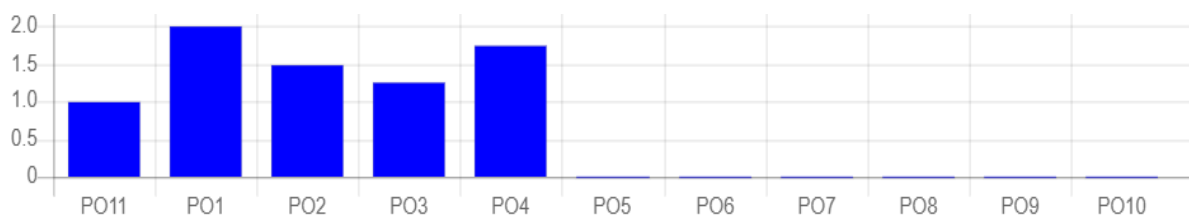
### Course Outcome Details

#	Course Outcome	Description
1	CO 1	Understand the mechanism of action and its relevance in the treatment of different infectious diseases
2	CO 2	Understand the drawbacks of alcohol and drug abuse with its pharmacology.
3	CO 3	Understand the evolution, ethics and process of clinical research.
4	CO 5	Understand principles of toxicology and chronopharmacology

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO 1	1	2	2	1	2						
CO 2	1	3	1	2	1						
CO 3	1	2	1	1	2						
CO 5	1	1	2	1	2						
Average	1.00	2.00	1.50	1.25	1.75						

**Desired Attainment Average : 1.50**





## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

### CO PO Desired Mapping Report

**Year :** Third Year - 3.2 (2 - Semester)

**Subject :** Herbal Drug Technology - Theory

**Course Code :** BP609T

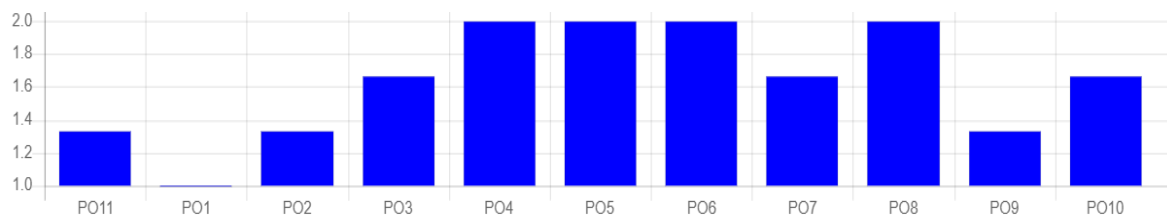
#### Course Outcome Details

#	Course Outcome	Description
1	CO1	1. understand raw material as source of herbal drugs from cultivation to herbal drugproduct
2	CO2	Indian Systems of Medicine a) Basic principles involved in Ayurveda
3	CO3	Health benefits and role of Nutraceuticals

#### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	1	2	2	3	2	2	2	3	1	1
CO2	1	1	1	1	1	2	2	2	1	2	2
CO3	1	1	1	2	2	2	2	1	2	1	2
Average	1.33	1.00	1.33	1.67	2.00	2.00	2.00	1.67	2.00	1.33	1.67

**Desired Attainment Average : 1.64**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Third Year - 3.2 (2 - Semester)

**Subject :** Biopharmaceutics and Pharmacokinetics - Theory

**Course Code :** BP 604 T

### Course Outcome Details

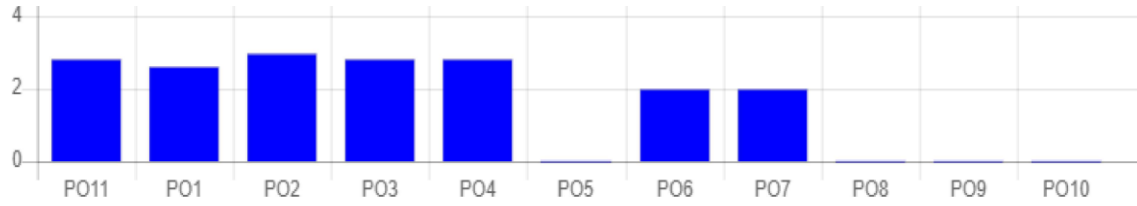
#	Course Outcome	Description
1	CO1	To understand the basic concepts in Biopharmaceutics and pharmacokinetics and their significance and determine the factors that affect the absorption, distribution of drugs and mechanisms involved in these process
2	CO2	To gain knowledge about the mechanisms involved in the metabolism and excretion of drugs and to understand the concepts of bioavailability and drugs and their significance
3	CO3	To Calculate various pharmacokinetic parameters from plasma and urinary excretion applying compartment modeling and model independent methods to describe the kinetics of drug absorption, distribution, metabolism, excretion or elimination
4	CO4	To select the correct pharmacokinetic model based on plasma level or urinary excretion data applying multicompartment modeling that best describes the process of drug absorption, distribution, metabolism and elimination (ADME).
5	CO5	To estimate pharmacokinetic parameters for drugs that undergo non - linear pharmacokinetics.

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	3	2	2						
CO2	3	2	3	3	3						
CO3	3	2	3	3	3						

CO4	3	3	3	3	3		2	2			
CO5	2	3	3	3	3						
Average	2.80	2.60	3.00	2.80	2.80		2.00	2.00			

**Desired Attainment Average : 2.57**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B.Pharmacy

## CO PO Desired Mapping Report

**Year:** Third year 3.2(2 semester)

**Subject:** Pharmaceutical Biotechnology

**Course Code:** BP605T

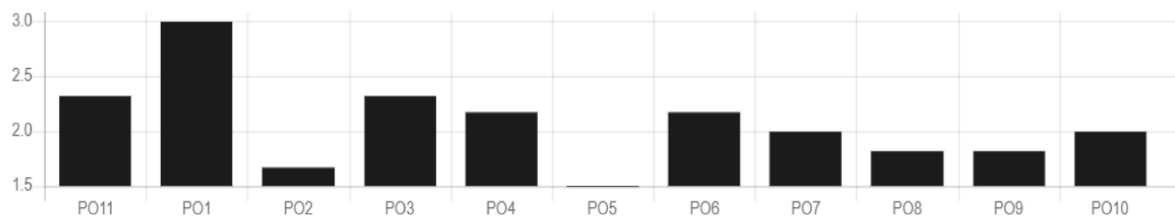
### Course Outcome Details

#	Course Outcome	Description
1	CO1	To understand the various techniques used in modern biotechnology, importance of Immobilized enzymes and biosensors in Pharmaceutical industries.
2	CO2	Students can be able to implement Genetic engineering applications in relation to production of pharmaceuticals
3	CO3	Students can explain the concept of Immunology and application of monoclonal antibody technology in industries
4	CO4	Students can demonstrate and provide examples on how to use microbes and mammalian cells for the production of biological products like vaccines, antitoxins and toxoids
5	CO5	Students can understand the Immuno blotting techniques, microbial genetics, microbial biotransformation and mutation
6	CO6	Students can be able to explain the general principles of protein engineering and apply the use of microorganisms in fermentation technology

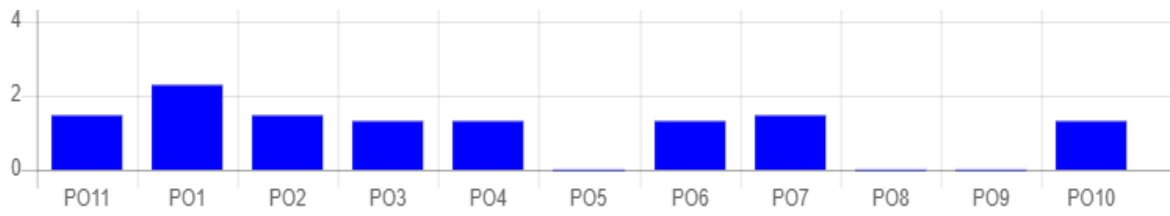
### Desired Attainment Details

	PO1 <sub>1</sub>	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	3	3	1	3	2	2	1	1
CO2	3	3	1	1	3	1	2	3	2	1	3
CO3	1	3	2	3	2	1	3	2	2	3	1
CO4	3	3	2	3	1	2	3	3	1	3	1
CO5	2	3	3	2	3	3	1	1	1	2	3
CO6	2	3	1	2	1	1	1	1	3	1	3
Average	2.33	3.00	1.67	2.33	2.17	1.50	2.17	2.00	1.83	1.83	2.00

Desired Attainment Average : 2.08









# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Fourth Year - 4.1 (1 - Semester)

**Subject :** Instrumental Methods of Analysis - Theory

**Course Code:** BP701T

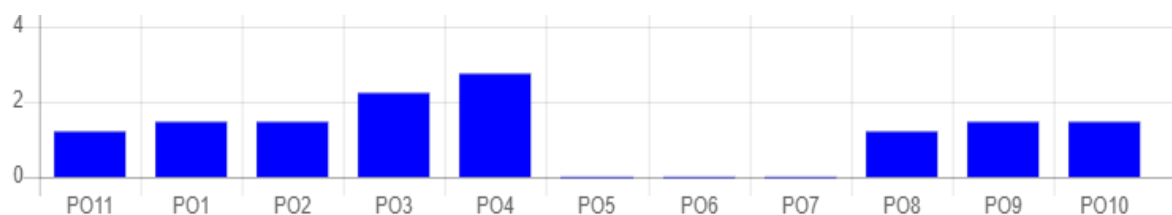
### Course Outcome Details

#	Course Outcome	Description
1	CO1	The student learn the basic theoretical knowledge on chromatography.
2	CO2	Theoretically understand the aspects of separation for multi components by using differnt chromatography techniques.
3	CO3	The basic theoretical knowledge, Principles and applications of the instrumentation techniques available in spectroscopy
4	CO4	Perform quantitative & qualitative analysis of drugs using various Spectroscopy analytical instruments.

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	1	1	2	3				1	2	1
CO2	1	1	1	2	3				1	2	1
CO3	1	2	2	3	3				2	1	2
CO4	1	2	2	2	2				1	1	2
Average	1.25	1.50	1.50	2.25	2.75				1.25	1.50	1.50

**Desired Attainment Average : 1.69**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Fourth Year - 4.1 (1 - Semester)

**Subject :** Industrial PharmacyII - Theory

**Course Code :** BP 702 T

### Course Outcome Details

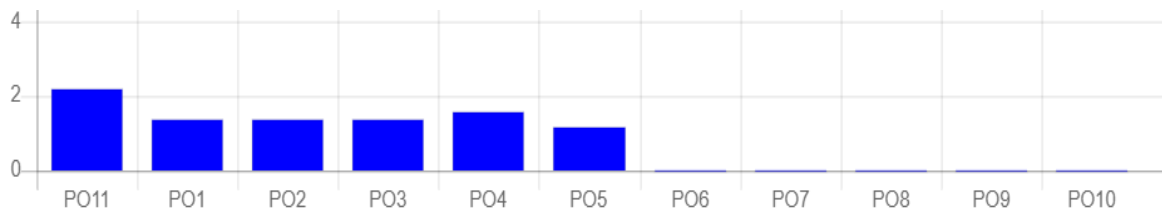
#	Course Outcome	Description
1	CO1	Will able to know the process of pilot plant, scale up and related documentation for general considerations of pharmaceutical dosage forms.
2	CO2	Understand the process of technology transfer from lab scale to commercial batches and implementing transfer protocols with valid QC documentation
3	CO3	To review, to know different regulatory laws and regulations in pharmaceutical industry
4	CO4	To understand the regulatory approval process and requirements for drug products and substances
5	CO5	To analyze the approval procedures, certifying the pharmaceutical product with organization responsibilities of New drugs

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	1	1	1	1					
CO2	2	2	1	2	2	1					
CO3	3	2	2	2	2	2					
CO4	2	1	1	1	1	1					
CO5	1	1	2	1	2	1					
Average	2.20	1.40	1.40	1.40	1.60	1.20					

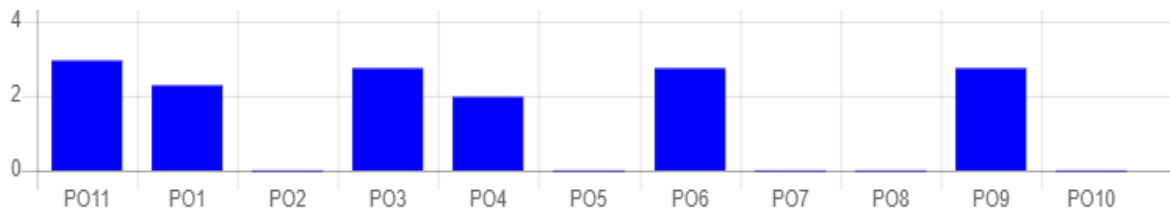
**Desired Attainment Average : 1.53**

vmedulife Account





vmedulife Account





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Fourth Year - 4.1 (1 - Semester)

**Subject :** Novel Drug Delivery System - Theory

**Course Code :** BP704T

### Course Outcome Details

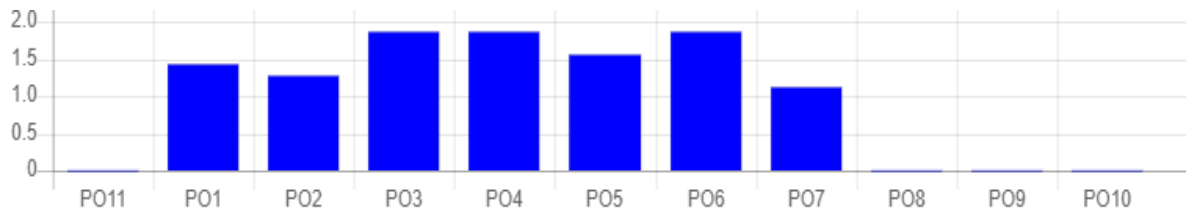
#	Course Outcome	Description
1	CO1	Explain the principles and technology used in the design of sustained release and controlled release drug delivery systems
2	CO2	Learn the criteria for selection of a drugs and polymers for the development of Novel drug delivery systems
3	CO3	Learn the various approaches for development of novel drug delivery systems
4	CO4	Explain the formulation and evaluation of Novel drug delivery systems
5	CO5	Explain the formulation and characterization of Transdermal drug Delivery systems
6	CO6	Learn the formulation and evaluation of Gastroretentive & Nasopulmonary drug delivery systems
7	CO7	Discuss various approaches for the development of targeted drug Delivery systems

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1		1	1	1	2	2	1	1			
CO2		2	1	2	2	1	2	1			
CO3		1	1	3	2	3	2	1			
CO4		1	1	2	1	2	1	2			
CO5		1	3	1	2	1	3	1			
CO6		1	1	3	2	1	2	1			
CO7		3	1	1	2	1	2	1			

Average		1.43	1.29	1.86	1.86	1.57	1.86	1.14			
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**Desired Attainment Average : 1.57**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Fourth Year - 4.2 (2 - Semester)

**Subject :** Biostatistics and Research Methodology - Theory

**Course Code:** BP801T

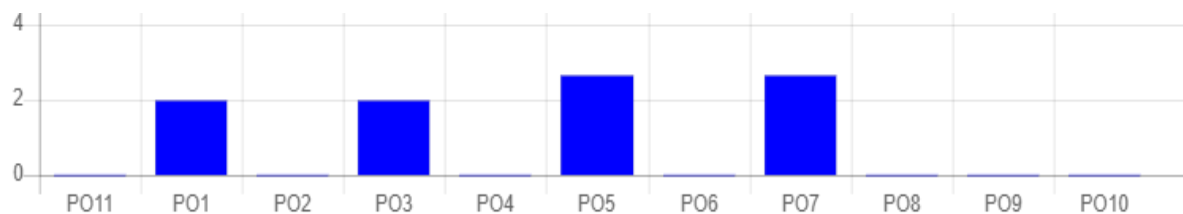
### Course Outcome Details

#	Course Outcome	Description
1	CO1	Know the operation of M.S. Excel, SPSS, R and MINITAB
2	CO2	Know the various statistical techniques to solve statistical problems
3	CO3	Appreciate statistical techniques in solving the problems.

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1		2		3		3		3			
CO2		1		2		3		2			
CO3		3		1		2		3			
Average		2.00		2.00		2.67		2.67			

**Desired Attainment Average : 2.33**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Fourth Year - 4.2 (2 - Semester)

**Subject :** Social and Preventive Pharmacy - Theory

**Course Code :** BP 802T

### Course Outcome Details

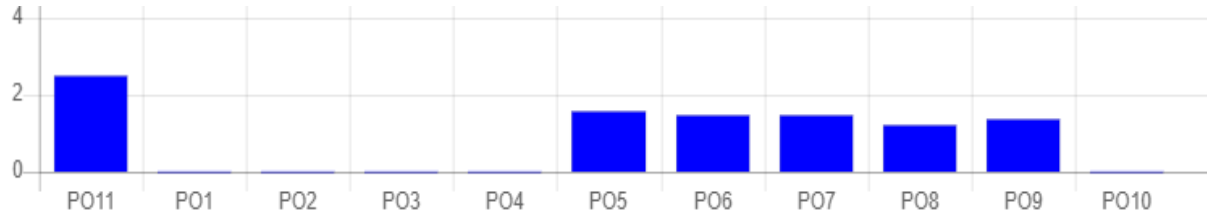
#	Course Outcome	Description
1	CO1	Recognize the concepts and evaluation of public health; Relate food to nutrition health, balanced diet, deficiencies and its prevention
2	CO2	Illustrate sociocultural factors and their relation with health; Identify avoidable habits for personal hygiene and health
3	CO3	Explain the principles of the prevention and control of communicable and non-communicable diseases.
4	CO4	Identify National health programs its objectives functioning and outcomes
5	CO5	Recognize the community services in rural, urban and school health
6	CO6	Explain the general measures and strategies to be followed in social and preventive pharmacy

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3					2	1	1		2	
CO2	2					2			1	1	
CO3	3					2	1	2	1	1	
CO4	2					1	2	1	2	1	
CO5	2						2		1		

CO6	3					1		2		2	
Average	2.50					1.60	1.50	1.50	1.25	1.40	

**Desired Attainment Average : 1.63**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Fourth Year - 4.2 (2 - Semester)

**Subject :** Pharmaceutical Regulatory Science - Theory

**Course Code :** BP 804ET

### Course Outcome Details

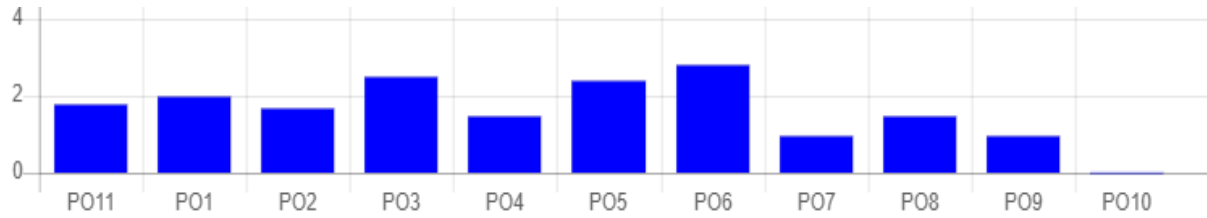
#	Course Outcome	Description
1	CO1	Understand the process of drug discovery, development and generic product development
2	CO2	Learn the basic understanding of regulations of India with other global regulated markets
3	CO3	Understand the regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals and the regulatory approval process and registration procedures for API and drug products in various countries
4	CO4	Learn the basic understanding the importance of Orange book, Federal Register, Code of Federal Regulatory, and Purple book
5	CO5	Understand the concept of pharmacovigilance and its significance and basic understanding of developing clinical trial protocols
6	CO6	Understand the Registration of Indian drug product in overseas market

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	2		2		3				
CO2	1				1	2	3				
CO3	2	2	1			2	2		1		
CO4	1		2	3		3	3				

CO5	2				1	2	3	1	2	1	
CO6				2	2	3	3				
Average	1.80	2.00	1.67	2.50	1.50	2.40	2.83	1.00	1.50	1.00	

**Desired Attainment Average : 1.82**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Fourth Year - 4.2 (2 - Semester)

**Subject :** Pharmacovigilance - Theory

**Course Code :** BP805ET

### Course Outcome Details

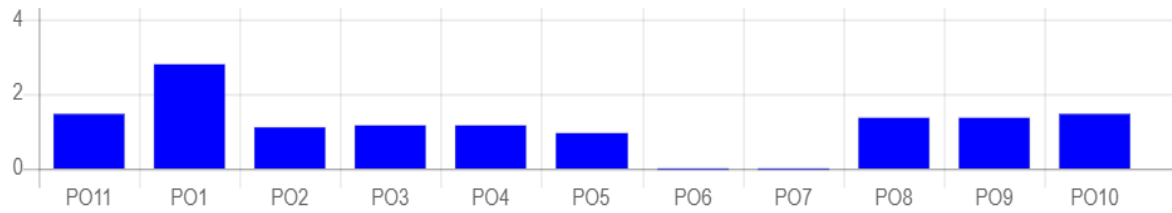
#	Course Outcome	Description
1	CO1	Discuss the importance of drug safety monitoring and the development of pharmacovigilance program
2	CO2	Identify adverse drug reactions and manage it
3	CO3	Explain international standards for classification of diseases and drugs
4	CO4	Describe about national and international pharmacovigilance program and the terminologies used
5	CO5	Develop and establish pharmacovigilance program in an organization
6	CO6	Recognize various methods of drug safety surveillance and communication in pharmacovigilance
7	CO7	Explain the methods to generate safety data during the phases of clinical trial and recognize the role of ICH and GCP guidelines
8	CO8	Explain pharmacogenomics of adverse drug reactions and evaluate drug safety in special population
9	CO9	Council for International Organizations of Medical Sciences
10	CO10	CDSCO (India) and Pharmacovigilance

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	1	1	1				1	3	2
CO2	2	3	1						2	1	2
CO3	1	3	1	1					1	1	2

CO4	1	3	1	1					1	1	1
CO5		3	1		1				1	1	
CO6		3	2		1				2	2	
CO7	1	3							2	2	
CO8	1	3	1	1	1	1			1	1	1
CO9		3		2					2	1	1
CO10		1	1	1	2	1			1	1	
Average	1.50	2.80	1.13	1.17	1.20	1.00			1.40	1.40	1.50

**Desired Attainment Average : 1.45**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Fourth Year - 4.2 (2 - Semester)

**Subject :** Cosmetic Science - Theory

**Course Code :** BP809ET

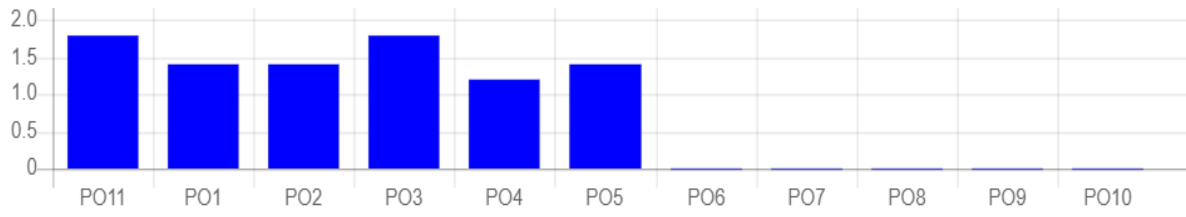
### Course Outcome Details

#	Course Outcome	Description
1	CO1	Classify and define Cosmetics and Cosmeceuticals as per Indian and EU regulations and describe the role of cosmetic excipients and building blocks in the formulation of cosmetics and explain the structure and function of the skin, hair, teeth and gums
2	CO2	To describe the formulation of antiperspirants and deodorants and Formulate cosmetics for skin care and hair care as well as dental and oral care - bleeding gums, mouth odour, teeth discoloration and sensitive teeth.
3	CO3	Describe the fundamentals of sun protection and the formulation of Sunscreens and design herbal cosmetics for skin care, hair care and oral care and Evaluate cosmetics for various physico-chemical properties.
4	CO4	To know the principles of cosmetic evaluation and measurement of Skin colour, Hair tensile strength and hair combing properties
5	CO5	Design cosmetics and cosmeceuticals that address the problems of dry skin, acne, dermatitis, prickly heat, wrinkles, blemishes, hair fall, Dandruff, body odour.

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	1	1	1	1	1					
CO2	1	2	3	2	1	2					
CO3	2	2	1	2	1	2					
CO4	2	1	1	2	2	1					
CO5	2	1	1	2	1	1					
Average	1.80	1.40	1.40	1.80	1.20	1.40					

**Desired Attainment Average : 1.50**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

B. Pharmacy

## CO PO Desired Mapping Report

**Year :** Fourth Year - 4.2 (2 - Semester)

**Subject :** Advanced Instrumentation Techniques - Theory

**Course Code :** BP811ET

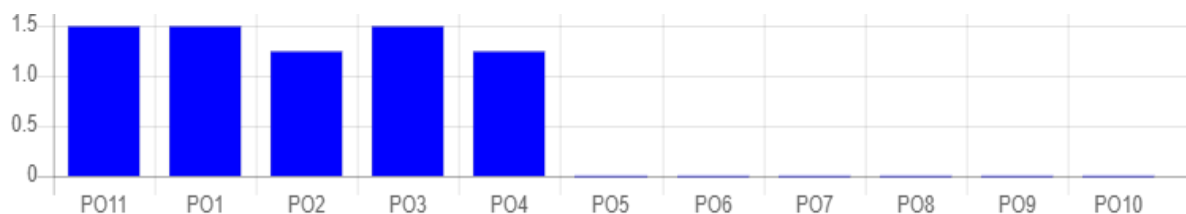
### Course Outcome Details

#	Course Outcome	Description
1	BP811 ET.1	To understand the advanced instruments used and its applications in drug analysis
2	BP811 ET. 02	To understand the chromatographic separation and analysis of drugs
3	BP 811 ET. 3	Able to understand the calibration of various analytical instruments
4	BP 811 ET.4	To know the analysis of drugs using various analytical instruments

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
BP811 ET.1	1	2	1	1	2						
BP811 ET. 02	2	1	1	2	1						
BP 811 ET. 3	2	2	1	1	1						
BP 811 ET.4	1	1	2	2	1						
Average	1.50	1.50	1.25	1.50	1.25						

**Desired Attainment Average : 1.40**





## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

### CO PO Desired Mapping Report

Year : First Year - First Year

Subject : HUMAN ANATOMY AND PHYSIOLOGY - Theory

Course Code : 1.1T

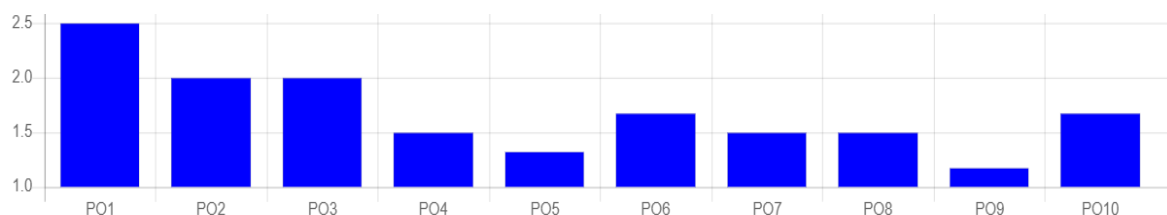
#### Course Outcome Details

#	Course Outcome	Description
1	CO1	They would have learnt the gross anatomy, histology and physiology of various organs of the human body.
2	CO2	They would identify the various tissues and organs associated with the different organ systems with help of charts and specimens.
3	CO3	They would have studied the coordination in functioning of different organs of each system.
4	CO4	They would have understood the several physiological homeostatic mechanisms and their imbalances in human body.
5	CO6	They would have learnt the interlinked mechanisms in the maintenance in normal and physical exercise conditions.
6	CO7	They would have learnt and performed the hematological tests parameters, blood pressure recording, heart rate, pulse and respiratory volumes.

#### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	3	1	1	2	2	2	1	1
CO2	2	2	1	1	1	1	1	1	1	3
CO3	3	2	2	2	2	2	2	2	2	2
CO4	2	2	2	1	1	1	1	1	1	1
CO6	3	2	2	2	2	2	2	1	1	1
CO7	2	2	2	2	1	2	1	2	1	2
Average	2.50	2.00	2.00	1.50	1.33	1.67	1.50	1.50	1.17	1.67

Desired Attainment Average : 1.68





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** First Year - First Year

**Subject :** Pharmaceutics – Theory

**Course Code :** PD1.2T

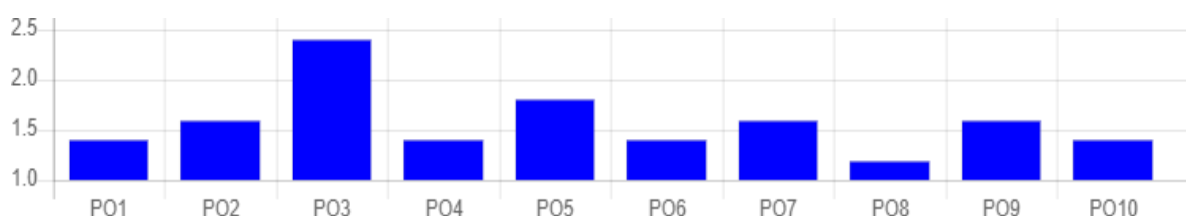
### Course Outcome Details

#	Course Outcome	Description
1	CO 1	to impart a fundamental knowledge on the art and science of formulating different dosageforms.
2	CO 2	It prepares the students for most basics of the applied field of pharmacy.
3	CO 3	do different pharmaceutical calculation involved in formulation
4	CO 4	To impart knowledge on additives added on various dosage forms
5	CO 5	To educate about dosage form stabilities

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO 1	1	1	2	2	2	1	1	1	2	1
CO 2	1	2	3	1	2	1	2	1	1	2
CO 3	2	3	2	1	2	2	2	2	2	1
CO 4	2	1	3	1	2	2	1	1	1	2
CO 5	1	1	2	2	1	1	2	1	2	1
Average	1.40	1.60	2.40	1.40	1.80	1.40	1.60	1.20	1.60	1.40

**Desired Attainment Average : 1.58**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** First Year - First Year

**Subject :** Medicinal Biochemistry - Theory

**Course Code :** PD1.3T

### Course Outcome Details

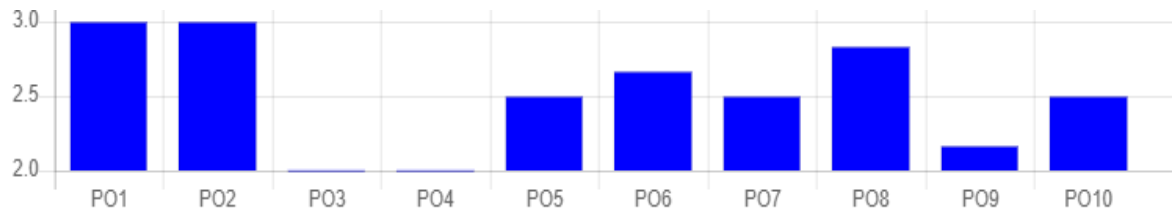
#	Course Outcome	Description
1	CO1	Define the basic concepts in medicinal biochemistry and clinical chemistry
2	CO2	Apply concepts and knowledge of medicinal biochemistry to clinical scenarios
3	CO3	Critically interpret how the biomolecules acts on the body and its mechanisms
4	CO 4	Link the biochemical reactions and pathways of several diseases
5	CO5	Explain the common laboratory values in clinical chemistry.
6	CO 6	Use the scientific laboratory equipment in order to gather and analyze data on medicinal biochemistry

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	2	2	2	2	2	2	2	2
CO2	3	3	2	2	3	3	3	3	2	3
CO3	3	3	2	2	3	3	3	3	2	2
CO 4	3	3	2	2	3	3	3	3	2	3
CO5	3	3	2	2	2	3	2	3	2	2
CO 6	3	3	2	2	2	2	2	3	3	3
Average	3.00	3.00	2.00	2.00	2.50	2.67	2.50	2.83	2.17	2.50

**Desired Attainment Average : 2.52**

vmedulife Account





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** First Year - First Year

**Subject :** Pharmaceutical Organic chemistry - Theory

**Course Code :** PD1.4T

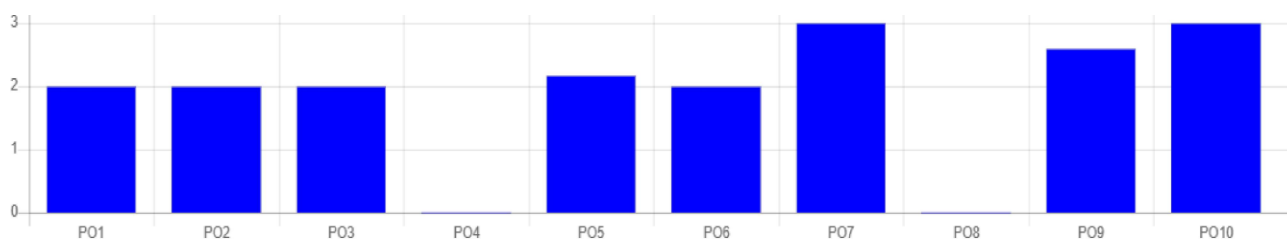
### Course Outcome Details

#	Course Outcome	Description
1	CO1	IUPAC/Common system of nomenclature of simple organic compounds belonging to different classes of organic compounds
2	CO2	To gain knowledge on physical properties of organic compounds
3	CO3	Free radical/ nucleophilic [alkyl/ acyl/ aryl] /electrophilic substitution, free radical/ nucleophilic / electrophilic addition, elimination
4	CO4	oxidation and reduction reactions with mechanism, orientation of the reaction, order of reactivity, stability of compounds
5	CO5	Some named organic reactions with mechanisms
6	CO6	Methods of preparation, test for purity, principle involved in the assay, important medicinal uses of some important organic compounds.

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1		2		2	2				
CO2	1	1	2		2				3	
CO3	3		2		2		3		2	
CO4	3	2			3				3	
CO5	2		2		2				2	3
CO6	2	3			2				3	
Average	2.00	2.00	2.00		2.17	2.00	3.00		2.60	3.00

Desired Attainment Average : 2.35





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** First Year - First Year

**Subject :** Pharmaceutical Inorganic Chemistry - Theory

**Course Code:** PD 1.5T

### Course Outcome Details

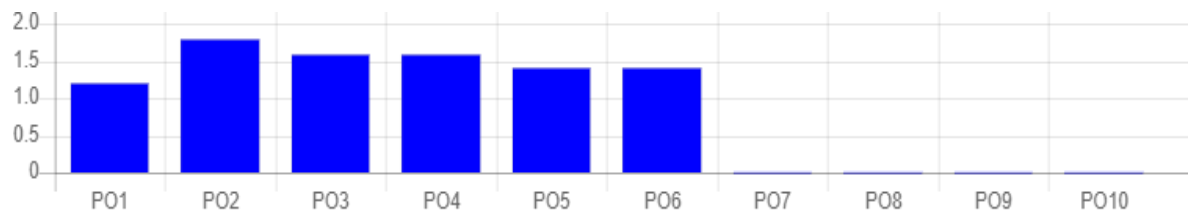
#	Course Outcome	Description
1	CO1	Understand the principles and procedure of analysis of drugs and also regarding the application of inorganic pharmaceuticals
2	CO2	Know the analysis of the inorganic pharmaceuticals their applications
3	CO4	Know the methods to determine the impurities in inorganic drugs and pharmaceuticals
4	CO5	To Describe the properties, storage condition and application of radiopharmaceuticals
5	CO6	Know the method of preparation, assay, properties, medicinal uses of dental products. Know the major extra and intracellular electrolytes.

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	2	2	2	1	1				
CO2	1	2	1	1	3	2				
CO4	2	2	2	1	1	1				
CO5	1	1	1	2	1	1				
CO6	1	2	2	2	1	2				
Average	1.20	1.80	1.60	1.60	1.40	1.40				

**Desired Attainment Average : 1.50**

vmedulife Account





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** First Year – First Year

**Subject :** Remedial Biology - Theory

**Course Code :** PD1.6T

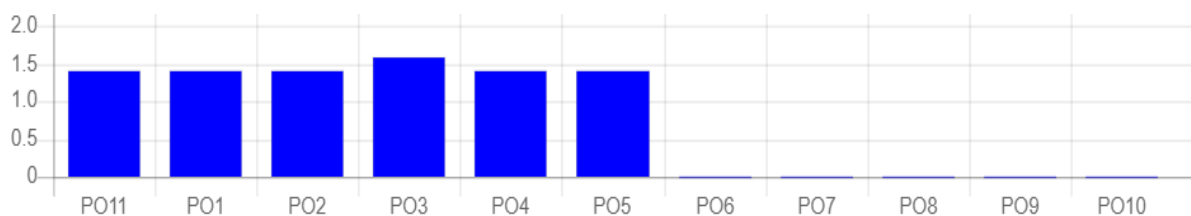
### Course Outcome Details

#	Course Outcome	Description
1	CO1	To Know Cell biology ( Basic Nature of Plant cell and Animal cell)
2	CO2	To understand Classification System of both Plants & Animals
3	CO3	To Study Various tissue system and organ system in plant and animals
4	CO4	To know the Theory of evolution
5	CO5	To Understand Anatomy and Physiology of plants and animals

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	1	1	2	2	2					
CO2	1	2	1	2	1	1					
CO3	1	1	2	2	1	2					
CO4	2	1	2	1	2	1					
CO5	2	2	1	1	1	1					
Average	1.40	1.40	1.40	1.60	1.40	1.40					

**Desired Attainment Average : 1.43**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** First Year – First Year

**Subject :** Remedial Mathematics - Theory

**Course Code:** PD1.6T

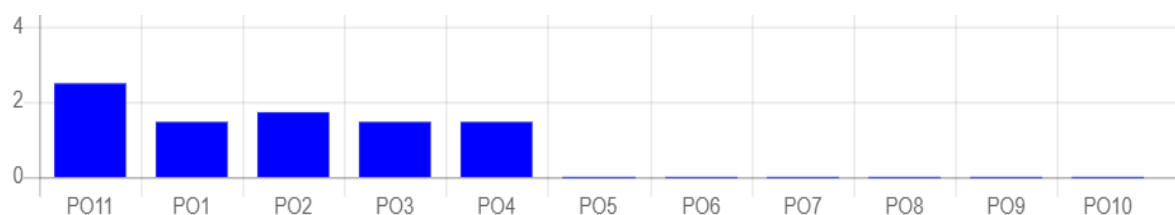
### Course Outcome Details

#	Course Outcome	Description
1	CO1	To Know how to Apply mathematical concepts and principles to perform computations for Pharmaceutical Sciences.
2	CO2	To know how to Create, use and analyze mathematical representations and mathematical relationships
3	CO3	To Communicate mathematical knowledge and understanding to help in the field of Clinical Pharmacy
4	CO4	To Perform abstract mathematical reasoning

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	2	2	2	2						
CO2	2	1	2	1	1						
CO3	3	2	2	2	2						
CO4	3	1	1	1	1						
Average	2.50	1.50	1.75	1.50	1.50						

### Desired Attainment Average : 1.75





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** Second Year –Second Year

**Subject :** Pathophysiology - Theory

**Course Code :** 2.1.T

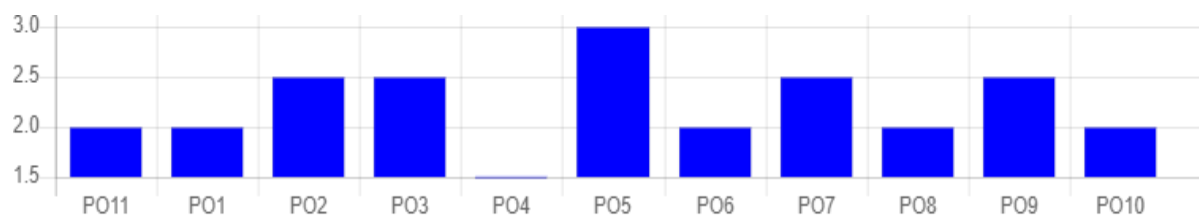
### Course Outcome Details

#	Course Outcome	Description
1	CO1	Understanding of basic pathophysiological mechanisms.
2	CO2	Name the signs and symptoms of the diseases;andMention the complications of the diseases

### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	2	2	3	1	3	2	3	2	2	3
CO2	2	2	3	2	2	3	2	2	2	3	1
Average	2.00	2.00	2.50	2.50	1.50	3.00	2.00	2.50	2.00	2.50	2.00

**Desired Attainment Average : 2.23**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

Year : Second Year - Second Year

Subject: Pharmaceutical Microbiology-Theory

Course Code: 2.2T

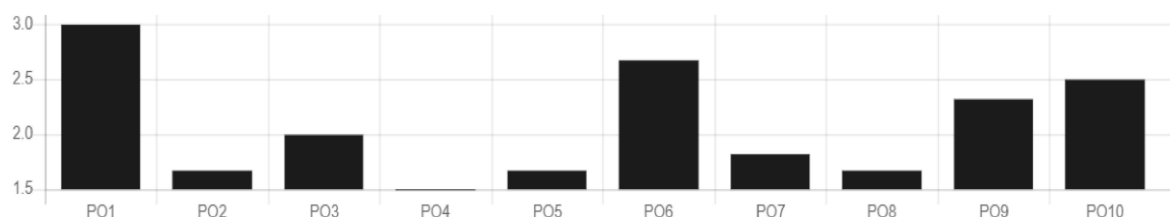
### Course Outcome Details

#	Course Outcome	Description
1	CO1	To demonstrate an understanding at an advanced level of microbial virulence mechanisms and host response to infection; application of molecular techniques to medical microbiology; microbial susceptibility and resistance to antimicrobial agents; replication of viruses, viral immunology and pathogenesis, detection of viruses.
2	CO2	To understand various infections (microbial causes, pathogenesis, transmission of infection, diagnosis, prevention and treatment) by being able to identify a unknown organisms in clinical samples, and describe the pathogenesis of important pathogens
3	CO3	To demonstrate a basic understanding of the pathogenesis of some important fungal infections of humans and be able to identify and isolate them from clinical samples
4	CO4	To analyze and solve problems, plan a work program or diagnostic strategy and learn independently & work cooperatively as part of a small group
5	CO5	To demonstrate safe working practices in microbiology, adhere to microbiological requirements for safe work procedures
6	CO6	To acquire and demonstrate competency in laboratory safety and in routine and specialized microbiological laboratory skills applicable to microbiological standardization or clinical methods, including accurately reporting observations and analysis

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	2	2	1	2	1	1	2	2
CO2	3	1	2	2	1	3	3	1	2	3
CO3	3	1	2	2	1	3	2	1	3	2
CO4	3	1	2	1	2	2	3	3	2	3
CO5	3	3	2	1	3	3	1	1	2	2
CO6	3	3	2	1	2	3	1	3	3	3
Average	3.00	1.67	2.00	1.50	1.67	2.67	1.83	1.67	2.33	2.50

Desired Attainment Average : 2.08





## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

### CO PO Desired Mapping Report

**Year :** Second Year - Second Year

**Subject :** Pharmacognosy - Theory

**Course Code :** 2.3T

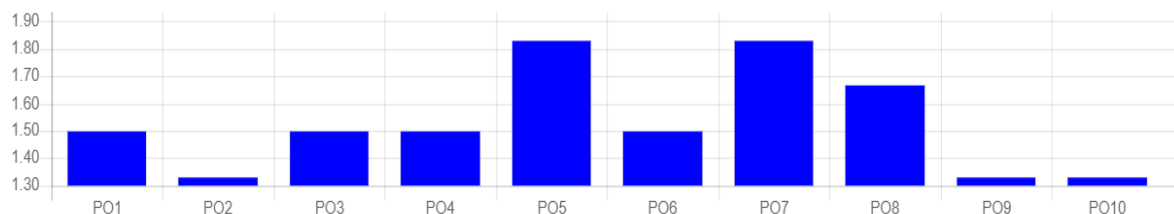
#### Course Outcome Details

#	Course Outcome	Description
1	PGPC-CO-1	under stand the basic principles of cultivation, collection and storage of crude drugs;
2	PGPC-CO-1	under stand the basic principles of cultivation, collection and storage of crude drugs;
3	PGPC- CO-2	UNDERSTAND THE BASIC PRINCIPLES AND FUNCTIONS
4	PGPC-CO-3	Under stand the basic principles of cultivation, collection and storage of crude drugs.
5	PGPC-CO-4	Definition sources, method extraction, chemistry and method of analysis of lipids. Detailed study of oils.
6	PGPC-CO-5	Definition, classification, chemistry and method of analysis of protein. Study of plants fibers used in surgical dressings and related products. Different methods of adulteration of crude drugs.

#### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
PGPC-CO-1	1	1	1	1	1	1	1	2	1	2
PGPC-CO-1	2	2	1	2	2	1	2	1	2	1
PGPC- CO-2	2	1	2	1	2	2	2	2	1	1
PGPC-CO-3	1	2	2	2	2	2	2	2	1	1
PGPC-CO-4	1	1	1	2	2	1	2	2	2	2
PGPC-CO-5	2	1	2	1	2	2	2	1	1	1
Average	1.50	1.33	1.50	1.50	1.83	1.50	1.83	1.67	1.33	1.33

**Desired Attainment Average : 1.53**





## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

### CO PO Desired Mapping Report

Year : Second Year - Second Year

Subject : Pharmacology-I - Theory

Course Code : 2.4T

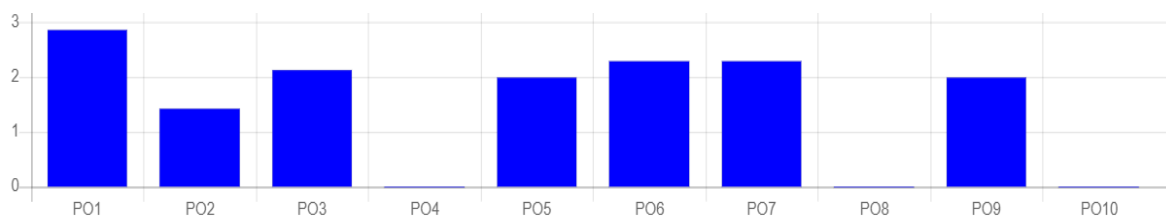
#### Course Outcome Details

#	Course Outcome	Description
1	CO 1	To acquire knowlrdge on pharmacology in relation to the appropriate route to be chosen based on drug and patient related factors
2	CO 2	To acquire knowledge on the pharmacology of drugs acting on ANS
3	CO 3	To gain knowledge on the pharmacological aspects ofcardiovascular drugs
4	CO 4	To acquire knowledge on the pharmacology of drugs acting on Central nervous system.
5	CO 5	To acquire knowledge on the pharmacology of drugs acting on Respiratory system
6	CO 6	To attain knowledge on the pharmacology of hormones and hormone antagonists
7	CO 7	To acquire knowledge on the pharmacology of Autocoids and their antagonists

#### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO 1	3	1	2		2	3	2		2	
CO 2	3	1	2		2	2	3		2	
CO 3	3	1	2		2	3	2		2	
CO 4	3	2	2		2	2	2		2	
CO 5	3	1	2		2	2	2		2	
CO 6	2	2	2		2	2	2		2	
CO 7	3	2	3		2	2	3		2	
Average	2.86	1.43	2.14		2.00	2.29	2.29		2.00	

Desired Attainment Average : 2.14





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** Second Year - Second Year

**Subject :** Community Pharmacy - Theory

**Course Code :** PD 2.5T

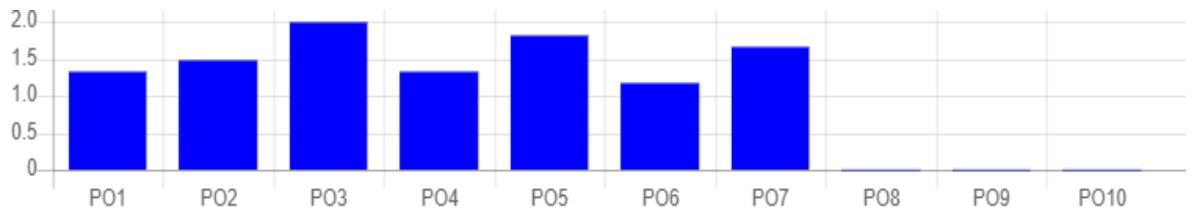
### Course Outcome Details

#	Course Outcome	Description
1	CO1	know pharmaceutical care services
2	CO2	know the business and professional practice management skills in community pharmacies
3	CO3	do patient counselling & provide health screening services to public in community pharmacy
4	CO4	respond to minor ailments and provide appropriate medication
5	CO5	show empathy and sympathy to patients
6	CO6	appreciate the concept of Rational drug therapy

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	2	2	1	2	1	2			
CO2	2	1	2	2	1	2	1			
CO3	1	3	2	1	1	1	1			
CO4	1	1	1	1	2	1	2			
CO5	1	1	2	2	2	1	2			
CO6	2	1	3	1	3	1	2			
Average	1.33	1.50	2.00	1.33	1.83	1.17	1.67			

**Desired Attainment Average : 1.55**





## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

### CO PO Desired Mapping Report

Year : Second Year - Second Year

Subject : Pharmacotherapeutics-I - Theory

Course Code : PD2.6 T

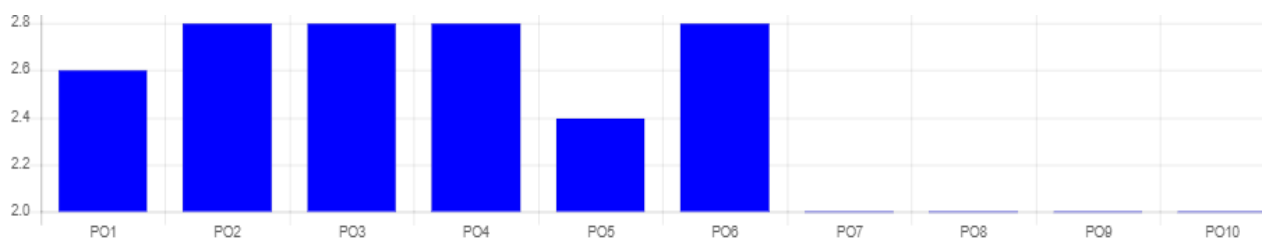
#### Course Outcome Details

#	Course Outcome	Description
1	CO1	CO1: Able to identify the abnormal physiology and pathogenesis of diseases..
2	CO2	CO2: Able to interpret the data from diagnostic tools.
3	CO3	CO3: Able to diagnose the disease by monitoring the clinical manifestations of the patient and suggest individualized therapy.
4	CO4	CO4: Able to provide rational drug therapy to the patient
5	CO5	CO5: Capable to suggest the treatment options for special populations like pediatric, geriatric, breast feeding & pregnant.

#### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	2	3	3	3	3	3	2	2	1
CO2	3	3	3	3	2	2	2	3	3	3
CO3	3	3	2	2	2	3	2	2	2	3
CO4	3	3	3	3	3	3	2	2	2	2
CO5	2	3	3	3	2	3	1	1	1	1
Average	2.60	2.80	2.80	2.80	2.40	2.80	2.00	2.00	2.00	2.00

Desired Attainment Average : 2.42





## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

### CO PO Desired Mapping Report

Year : Third Year – Third Year

Subject : Pharmacology - II - Theory

Course Code : 3.1T

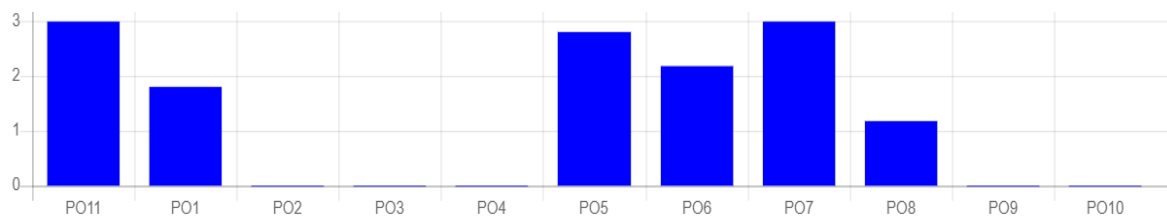
#### Course Outcome Details

#	Course Outcome	Description
1	CO 1	To acquire knowledge on the pharmacology of cardiovascular drugs
2	CO 1	To acquire knowledge on the pharmacology of cardiovascular drugs
3	CO 2	To gain pharmacological knowledge on cardiovascular drugs and diuretics
4	CO 3	To acquire knowledge on autocooids and related drugs
5	CO 4	To gain knowledge on the pharmacology of Endocrine system
6	CO 5	T o gain knowledge on endocrine pharmacology and Bioassays

#### Desired Attainment Details

	PO11	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO 1	3	1				3	2	3	1		
CO 1											
CO 2	3	2				2	3	3	1		
CO 3	3	2				3	2	3	1		
CO 4	3	2				3	2	3	1		
CO 5	3	2				3	2	3	2		
Average	3.00	1.80				2.80	2.20	3.00	1.20		

Desired Attainment Average : 2.33





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** Third Year - Third Year

**Subject :** Pharmaceutical Analysis - Theory

**Course Code :** PD3.2T

### Course Outcome Details

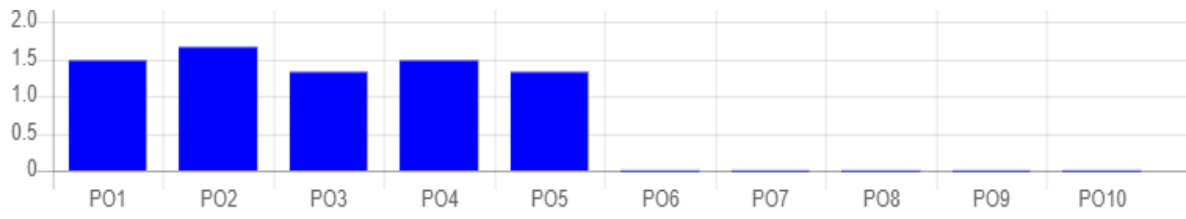
#	Course Outcome	Description
1	CO1	Students will learn the Theoretical aspects, instrumentation, elements of interpretation of data/spectra and application of spectroscopy techniques
2	CO2	Students will learn the theoretical aspects and applications of NMR & ESR, Mass Spectroscopy, Polarimetry, X-RAY Diffraction and thermal methods
3	CO3	Student can learn the separation techniques, basics principles, instrumentation and application of different chromatography techniques
4	CO4	Students can learn Theoretical aspects, instrumentation, interpretation of data/spectra and analytical applications of Electrometric methods.
5	CO5	Student can get a knowledge about quality variation, statistical quality control and Validation methods
6	CO6	Student will get a knowledge on GLP, ISO 9000, TQM, Documentation, ICH Guidelines and Regulatory control.

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	1	2	2	1					
CO2	2	2	1	1	2					
CO3	2	2	2	1	2					
CO4	1	2	1	2	1					
CO5	1	2	1	2	1					
CO6	1	1	1	1	1					

Average	1.50	1.67	1.33	1.50	1.33					
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**Desired Attainment Average : 1.47**





## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

### CO PO Desired Mapping Report

Year : Third Year - Third Year

Subject : Pharmacotherapeutics-II - Theory

Course Code: PD 3.3T

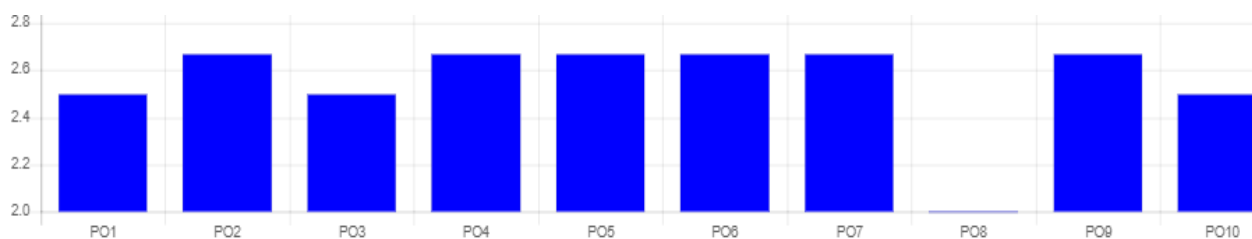
#### Course Outcome Details

#	Course Outcome	Description
1	CO1	Able to understand different causes of diseases.
2	CO2	Able to identify the abnormal physiology of individual with specific disease states.
3	CO3	Able to diagnose the disease by correlating clinical manifestations and laboratory indices.
4	CO4	Able to prepare individualized therapeutic plans based on diagnosis.
5	CO5	Able to suggest lifestyle modifications based on the disease states.
6	CO5	Able to suggest lifestyle modifications based on the disease states.

#### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	3	3	3	3	3	2	3	3
CO2	3	3	3	3	3	3	3	2	3	3
CO3	2	3	2	3	3	3	3	1	3	3
CO4	2	2	2	2	3	2	2	2	2	3
CO5	2	3	2	2	2	2	3	2	2	2
CO5	3	3	3	3	2	3	2	3	3	1
Average	2.50	2.67	2.50	2.67	2.67	2.67	2.67	2.00	2.67	2.50

#### Desired Attainment Average : 2.55





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** Third Year - Third Year

**Subject :** Pharmaceutical Jurisprudence - Theory

**Course Code :** PD3.4T

### Course Outcome Details

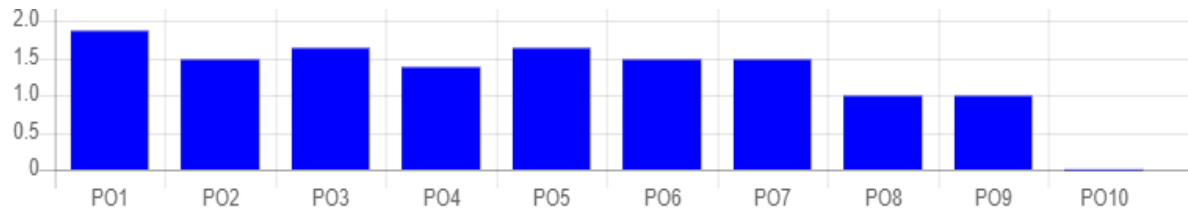
#	Course Outcome	Description
1	CO1	To understand the various concepts of Pharmaceutical Legislation in India
2	CO2	practice the Professional ethics
3	CO3	know the Drug policy, DPCO, Patent and design act
4	CO4	understand the labeling requirements and packaging guidelines for drugs and cosmetics;
5	CO5	be able to understand the concepts of Dangerous Drugs Act, Pharmacy Act and Excise duties Act; and
6	CO6	other laws as prescribed by the Pharmacy Council of India from time to time including International Laws.
7	CO7	Know about narcotic and psychotropic drugs, its productions and drug abuse, its controlling
8	CO8	Understand the concept of Intellectual property rights and Right to information act

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	2	2	1	1	2	1			
CO2	2	1	1	2	1	1	3		1	
CO3	2	2	2	1	1	2	1			
CO4	2	1	2	1	3	1	1			
CO5	2	2	1	2	2	2	2	1		

CO6	1	2	1	1	2	1	2			
CO7	2	1	3	2	2	1	1			
CO8	2	1	1	1	1	2	1			
Average	1.88	1.50	1.63	1.38	1.63	1.50	1.50	1.00	1.00	

**Desired Attainment Average : 1.44**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

## Pharm D

### CO PO Desired Mapping Report

**Year;** Third Year

**Subject:** Medicinal Chemistry-Theory

**Course Code:**3.5T

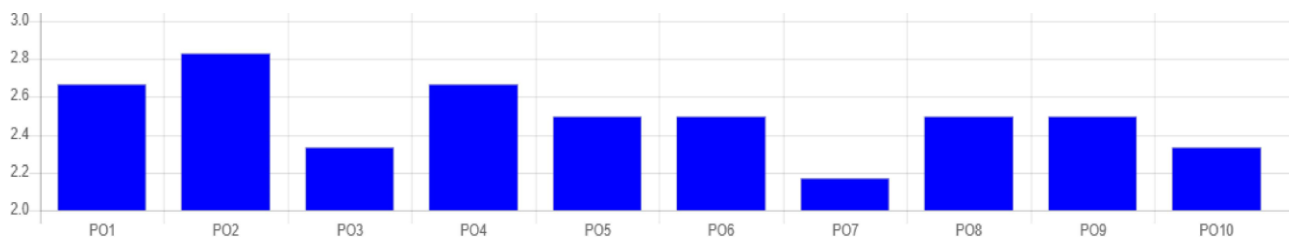
#### Course Outcome Details

#	Course Outcome	Description
1	CO1	To gain knowledge on QSAR
2	CO2	concept of prodrug, antisense molecule ,CADD and combinatoria I chemistry
3	CO3	study about the introduction of various classes of drugs, its classification uses of drugs
4	Co4	to learn about SAR and mechanism acion of drugs of drugs
5	CO5	understand how the compound is going to be synthesized
6	CO6	chemical nomenclature, brand names of important marketed products and their side effects.

#### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	2	3	1	2	1	3	2	2
CO2	3	3	2	2	3	3	2	2	3	3
CO3	2	3	3	3	3	2	3	3	2	2
Co4	2	3	2	3	2	3	2	2	3	3
CO5	3	3	3	3	3	2	3	2	2	2
CO6	3	3	2	2	3	3	2	3	3	2
Average	2.67	2.83	2.33	2.67	2.50	2.50	2.17	2.50	2.50	2.33

Desired Attainment Average : 2.50





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** Third Year - Third Year

**Subject :** Pharmaceutical Formulations – Theory

**Course Code:** 3.6T

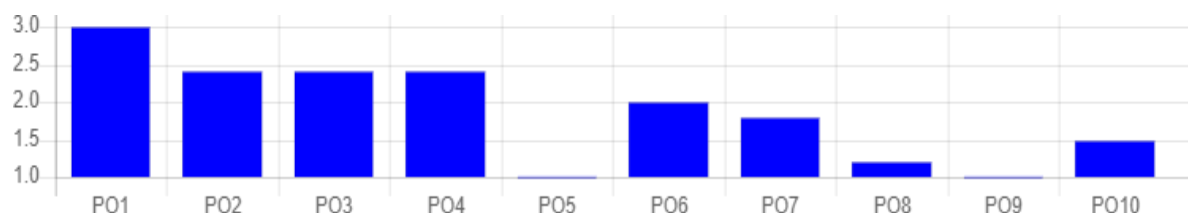
### Course Outcome Details

#	Course Outcome	Description
1	CO 1	formulation and evaluation of various pharmaceutical dosage forms
2	CO 2	To impart knowledge on various additives added to the formulations other than active ingredient
3	CO 3	Evaluation parameters of various dosage forms
4	CO 4	In-process quality control tests of various dosage forms and stability studies
5	CO 5	Impart knowledge on novel dosage forms

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO 1	3	2	2	2	1	3	3	2	1	2
CO 2	3	3	1	3	1	3	3	1		
CO 3	3	2	3	2	1	1	1	1	1	1
CO 4	3	2	3	2	1	1	1	1		2
CO 5	3	3	3	3	1	2	1	1		1
Average	3.00	2.40	2.40	2.40	1.00	2.00	1.80	1.20	1.00	1.50

**Desired Attainment Average : 1.87**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** Fourth Year - Fourth Year

**Subject :** Pharmacotherapeutics-III (PCT-III) – Theory

**Course Code:** PD 4.1T

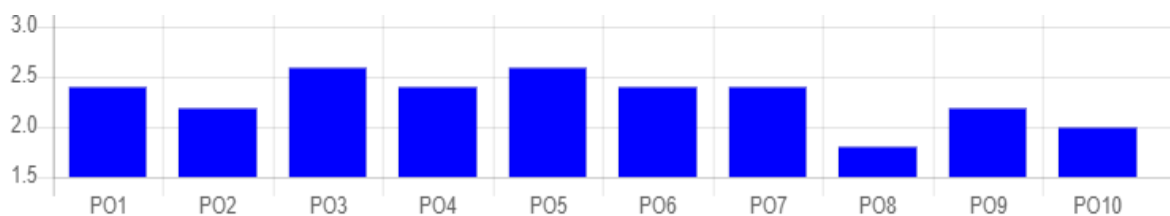
### Course Outcome Details

#	Course Outcome	Description
1	CO1	CO1:Able to systematically analyse a case
2	CO2	CO2:Able to diagnose as well as suggest the medicine.
3	CO3	CO3:Can perform the patient counseling effectively
4	CO4	CO4: Capable to suggest the treatment options from the evidences.
5	CO5	CO5:Able to identify the abnormal physiology individuals with diseases.

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	1	3	3	3	2	2	2	1	3
CO2	3	2	3	3	3	3	2	2	2	2
CO3	3	2	2	2	3	2	3	2	3	1
CO4	3	3	2	2	2	3	3	1	3	2
CO5	1	3	3	2	2	2	2	2	2	2
Average	2.40	2.20	2.60	2.40	2.60	2.40	2.40	1.80	2.20	2.00

**Desired Attainment Average : 2.30**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** Fourth Year - Fourth Year

**Subject :** Hospital Pharmacy - Theory

**Course Code :** PD 4.2T

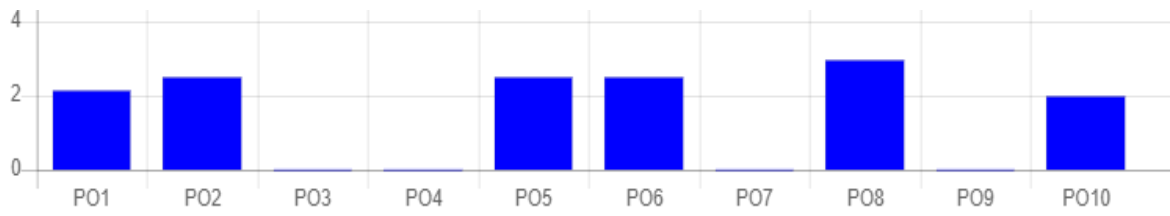
### Course Outcome Details

#	Course Outcome	Description
1	CO1	KNOW ABOUT VARIOUS DRUG DISTRIBUTION SYSTEMS IN HOSPITAL
2	CO2	KNOW ABOUT PROFESSIONAL PRACTICE MANAGEMENT SKILLS IN HOSPITAL PHARMACIES
3	CO3	PROVIDE UNBIASED DRUG INFORMATION TO DOCTORS
4	CO4	KNOW THE MANUFACTURING PRACTICES OF VARIOUS FORMULATIONS IN HOSPITAL SETUP
5	CO5	APPRECIATE THE PRACTICE BASED RESEARCH METHODS
6	CO6	APPRECIATE THE STORES MANAGEMENT AND INVENTORY CONTROL

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3				2					2
CO2	2	2						3		2
CO3	2	3				3				
CO4	2									
CO5	2				3	2				
CO6	2									2
Average	2.17	2.50			2.50	2.50		3.00		2.00

**Desired Attainment Average : 2.44**





## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

### CO PO Desired Mapping Report

**Year :** Fourth Year - IV PharmD

**Subject :** Clinical Toxicology - Theory

**Course Code :** PD4.6T

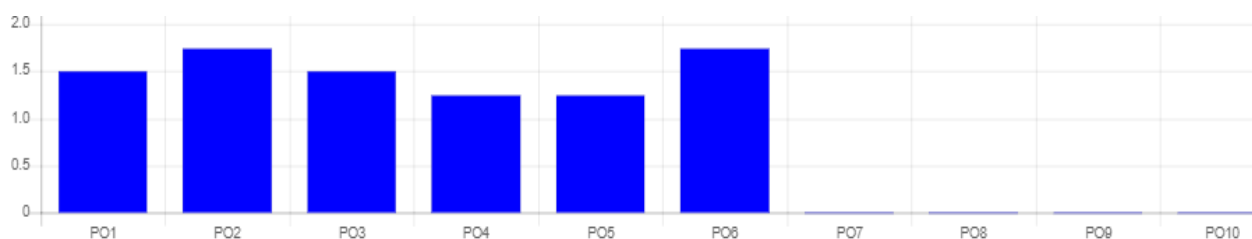
#### Course Outcome Details

#	Course Outcome	Description
1	CO1	General principles involved in the management of poisoning-Clinical toxicology involves the research, prevention and treatment of diseases caused by chemicals, drugs and toxins. Special attention is paid to levels of chemical exposure and to the effects that exposure can have on people and the environment.
2	CO2	Clinical symptoms and management of acute poisoning Establishing the presence of toxins with the capability of causing or contributing to death. Establishing the presence of toxins with the capability of causing behavioral changes. Establishing the presence of substances and detecting if these substances were used directly or by exposure.
3	CO3	Clinical symptoms and management of chronic poisoning
4	CO4	Substance abuse: Signs and symptoms of substance abuse and treatment of dependence

#### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	1	1	1	1	2				
CO2	1	2	1	2	2	1				
CO3	2	2	3	1	1	2				
CO4	1	2	1	1	1	2				
Average	1.50	1.75	1.50	1.25	1.25	1.75				

#### Desired Attainment Average : 1.50





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** Fourth Year - Fourth Year

**Subject :** Biostatistics - Theory

**Course Code :** 4.4T

### Course Outcome Details

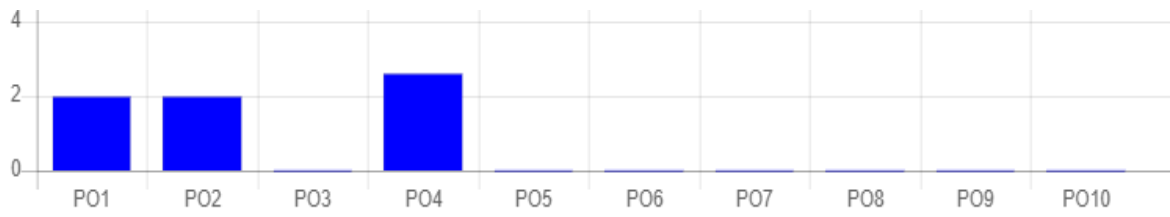
#	Course Outcome	Description
1	CO1	Choose the appropriate research design and develop appropriate research hypothesis for a project
2	CO2	Develop an appropriate framework for research studies
3	CO3	Know the various statistical methods to solve different types of problems
4	CO 4	Operate various statistical software
5	CO5	Appreciate the importance of Computer in hospital and Community Pharmacy
6	CO6	Appreciate the statistical technique in solving the pharmaceutical problems

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2			2						
CO2	2			2						
CO3	2	2								
CO 4	2			3						
CO5				3						
CO6				3						
Average	2.00	2.00		2.60						

**Desired Attainment Average : 2.20**

vmedulife Account





## Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

### CO PO Desired Mapping Report

**Year :** Fourth Year - Fourth Year

**Subject :** Biopharmaceutics - Theory

**Course Code :** 4.5T

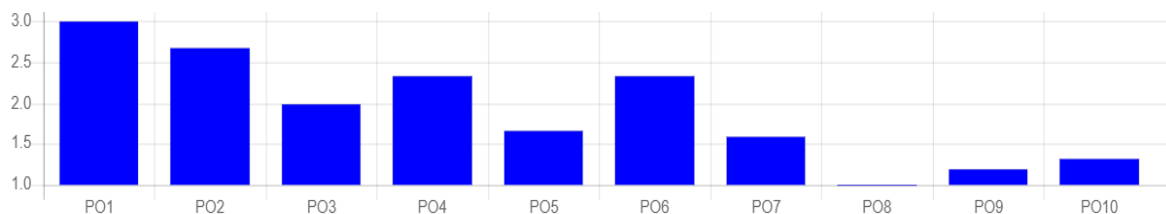
#### Course Outcome Details

#	Course Outcome	Description
1	CO 1	Define the basic concepts in biopharmaceutics and pharmacokinetics
2	CO 2	Select the correct pharmacokinetic model based on plasma level or urinary excretion data that best describes the process of drug absorption, distribution, metabolism and elimination (ADME)
3	co 3	Determine the effect of Pharmacokinetic (ADME) parameters on the biological effects of the drug
4	CO 4	Carry out biopharmaceutical studies and use data so obtained in the development of new drugs or dosage forms
5	CO 5	Design dosage regimens for patients based on calculated pharmacokinetic parameters
6	CO 6	Design Bioavailability and Bioequivalence studies of new drugs or dosage forms

#### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO 1	3	3	2	2	2	1	1	1	1	1
CO 2	3	2	1	3	2	3		1		1
co 3	3	2	3	2	1	2	1	1	1	1
CO 4	3	3	2	2	1	3	2	1	1	1
CO 5	3	3	2	2	2	2	1		1	1
CO 6	3	3	2	3	2	3	3	1	2	3
Average	3.00	2.67	2.00	2.33	1.67	2.33	1.60	1.00	1.20	1.33

**Desired Attainment Average : 1.91**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** Fourth Year - Fourth Year

**Subject :** Clinical Pharmacy (CP) - Theory

**Course Code :** PD4.3T

### Course Outcome Details

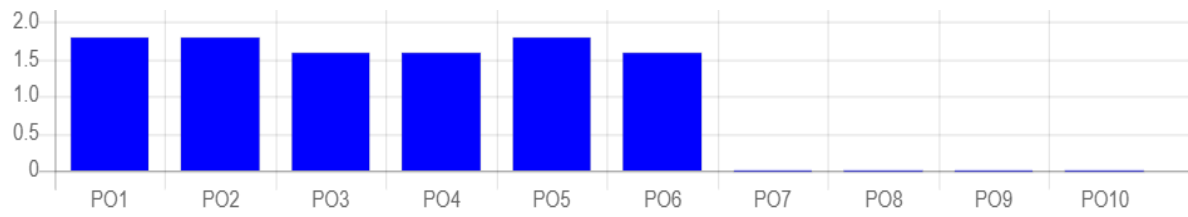
#	Course Outcome	Description
1	CO1	CO1: Able to understand different causes of diseases.
2	CO2	CO2: Able to identify the abnormal physiology of individual with specific disease states.
3	CO3	CO3: Able to diagnose the disease by correlating clinical manifestations and laboratory indices.
4	CO4	CO4: Able to prepare individualized therapeutic plans based on diagnosis.
5	CO5	CO5: Able to suggest lifestyle modifications based on the disease states.

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	2	2	1	2	1	2				
CO2	2	1	3	1	3	1				
CO3	2	2	1	2	2	2				
CO4	1	3	2	1	1	1				
CO5	2	1	1	2	2	2				
Average	1.80	1.80	1.60	1.60	1.80	1.60				

**Desired Attainment Average : 1.70**

vmedulife Account





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** Fifth Year - Fifth Year

**Subject :** Clinical Research - Theory

**Course Code :** PD 5.1T

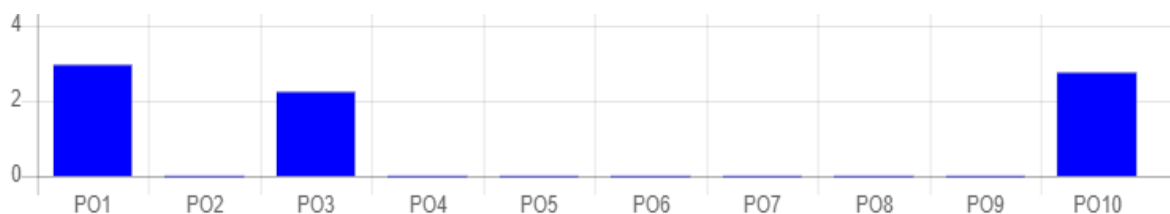
### Course Outcome Details

#	Course Outcome	Description
1	CO1	Know the concept of new drug development process
2	CO2	Understand the regulatory and ethical requirements.
3	CO3	Conduct the clinical trials in accordance with regulatory and ethical requirements.
4	CO4	.Coordinate the clinical trials and promote quality drug trial research

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3		2							3
CO2	3		2							3
CO3	3		3							2
CO4	3		2							3
Average	3.00		2.25							2.75

**Desired Attainment Average : 2.67**





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** Fifth Year - Fifth Year

**Subject :** Pharmacoepidemiology and Pharmacoeconomics – Theory

Course Code: PD 5.2T

### Course Outcome Details

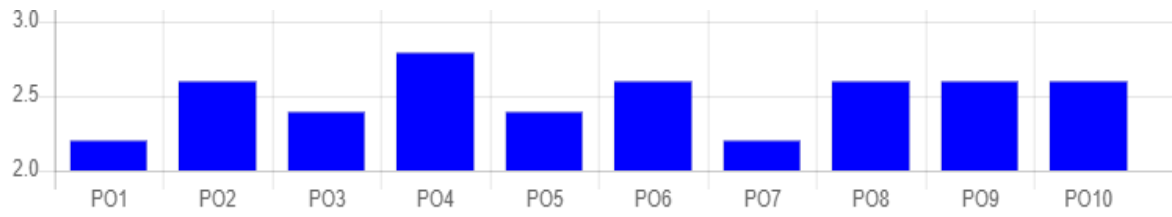
#	Course Outcome	Description
1	CO1	CO1: Posses knowledge of pharmacoepidemiology andconcept of risk in pharmacoepidemiology
2	CO2	CO2: Capable of measuring outcomespharmacoepidemiology using variouspharmacoepidemiological methods
3	CO3	CO3: Possess knowledge of Sources of data forpharmacoepidemiological studies and applications ofpharmacoepidemiology
4	CO4	CO4:.. Aware of concepts of pharmacoeconomics and itssignificance
5	CO5	CO5: Can perform pharmacoeconomic evaluation

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	2	3	3	3	2	2	3	3	3
CO2	2	3	2	3	2	3	2	2	3	2
CO3	3	3	2	3	2	2	2	3	2	2
CO4	2	3	2	3	3	3	3	3	2	3
CO5	3	2	3	2	2	3	2	2	3	3
Average	2.20	2.60	2.40	2.80	2.40	2.60	2.20	2.60	2.60	2.60

**Desired Attainment Average : 2.50**

vmedulife Account





# Vikas Institute of Pharmaceutical Sciences, Rajahmundry

Pharm D

## CO PO Desired Mapping Report

**Year :** Fifth Year - Fifth Year

**Subject :** Clinical Ph.Kinetics - Theory

**Course Code :** PD5.3T

### Course Outcome Details

#	Course Outcome	Description
1	CO1	Understand the Knowledge of Clinical pharmacokinetics
2	CO2	Understanding the knowledge of Clinical Pharmacokinetics
3	CO3	Knowledge regarding Design of dosage regimens Nomograms and Tabulations in designing dosage regimen
4	C04	Understand the knowledge of Design of dosage regimens Nomograms and Tabulations
5	C04	Understand the knowledge of Design of dosage regimens Nomograms and Tabulations
6	CO5	Design of dosage regimens Nomograms and Tabulations in designing dosage regimen
7	CO7	Conversion from intravenous to oral dosing, Determination of dose and dosing intervals
8	CO8	Knowledge on Pharmacokinetic drug interactions
9	CO9	Pharmacokinetic drug interactions
10	C10	Inhibition and Induction of Drug metabolism
11	C11	Knowledge on Inhibition and Induction of Drug metabolism
12	C12	understand the mechanisms Inhibition and Induction of Drug metabolism

### Desired Attainment Details

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1	1	2	1	1	2				
CO2	1	2	1	2	2	1				

C03	1	3	2	2	1	1				
C04	1	1	2	1	2	1				
C04	3	2	1	2	1	2				
C05	1	3	1	2	2	1				
C07	1	2	2	1	2	1				
C08	2	2	1	2	1	1				
C09	2	1	1	2	1	1				
C10	2	2	1	2	1	1				
C11	2	1	3	1	2	1				
C12	1	2	1	2	1	1				
Average	1.50	1.83	1.50	1.67	1.42	1.17				

**Desired Attainment Average : 1.51**

