



**Shri Gajanan Maharaj Shikshan Prasarak Mandal's**

**SHARADCHANDRA PAWAR COLLEGE OF PHARMACY**

**DUMBARWADI. (OTUR), TAL : JUNNAR, DIST : PUNE. 412409.**

Code: SPCOP/ACD/FM/	Department : Academic	Ac. Yr. : 2020-21
Rev:00	Course outcome	Class: F. Y. B. Pharm. Sem.- I
Date:		Page: 1 of 1

**Course number: BP 101T (2019 Pattern)**

**Title of course: HUMAN ANATOMY AND PHYSIOLOGY-I (T)**

**Course outcomes:**

**BP 101 (1).** Explain the gross morphology, structure and functions of various organs of the human body. Describe the various homeostatic mechanisms and their imbalances.

**BP 101(2).** Identify the various tissues and organs of different systems of human body.

**BP 101(3).** Perform the various experiments related to special senses and nervous system.

**BP 101 (4).** Appreciate coordinated working pattern of different organs of each system.

**Miss. Kadam A. J.**

**Subject Teacher**

**Dr. Joshi S. A.**

**HOD**

**Dr. Joshi S. A.**

**Academic Coordinator**

**Mrs. Bidkar S. J.**

**CO-PO Coordinator**



**Dr. G.Y. Dama**

**Principal**

**PRINCIPAL**

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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	Course Outcome	Class: F. Y. B.Pharm (Sem-I)
Date:		Page: 1

## Course outcome

2020 -2021

Course number: BP102T & BP108P

Title of course: PHARMACEUTICAL ANALYSIS I (T) (2019 Pattern) PCI

### Course outcomes:

102 (01) Explain Pharmacopoeia, errors and impurities in medicinal agents, limit tests.

102(02) Understand the principles and concepts of aqueous acid base titrations,  
non-aqueous titrations.

102 (03) Explain basic concepts and principles of precipitation titrations, complexation ,  
redox reactions and gravimetric titrations.

102 (04) Explain concept of Conductometry, potentiometry and Polarography.  
Understand construction, working of electrochemical cell and electrodes

Mrs. A. V. Gaikwad  
Subject Teacher

HOD

Dr. Joshi S. A.  
Academic Coordinator

Mrs. Bidkar S. J.  
CO-PO Coordinator

Dr. Dama C. Y.  
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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	Course Outcome	Class: F. Y. B.Pharm (Sem-I)
Date: 10/2/21		Page: 1

**Course outcome**

**Course number: BP103 T**

**Title of course: Pharmaceutics-I (T) (2019 Pattern)**

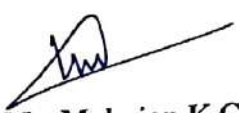
**Course outcomes:**


BP103 (01) To know history of profession of pharmacy & To understand the professional way of Handling the prescription.

BP103 (02) To explain formulation aspects of powders & liquid dosage forms.

BP103 (03) To understand basics of Pharmaceutical calculations & Pharmaceutical Incompatibilities.

BP103 (04) Formulation, development and evaluation of semisolid dosage forms & Suppositories.

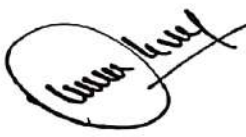
  
**Mr. Mahajan K.C.**  
Subject Teacher

  
**Dr. Mantry S.**  
HOD

  
**Dr. Joshi S. A.**  
Academic Coordinator

  
**Mrs. Bidkar S. J.**  
CO-PO Coordinator



  
**Dr. G. Y. Dama**  
Principal

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Code: SPCOP/ACD/FM/	Department : Academic	Ac. Yr. : 2020-21
Rev:00	Course Outcomes	Class: First. Y. B. Pharm. Sem.- I
Date: 05/01/2021		Page: 1 of 2

### Course outcome

Course number: BP104 T

Title of course: Pharmaceutical Inorganic Chemistry (T) (2019 Pattern)

Course outcomes:

BP104(01) Study the Sources of impurities in Pharmaceutical Industry , Different limit test with their Principles.

BP104(02) Concept of Acid, Base, Buffer, Dental Products and intracellular, extracellular Electrolytes.

BP104(03) Understand the Gastrointestinal Tract Agents such as Acidifiers, Antacids,

BP104(04) Know the various miscellaneous agents and Radiopharmaceuticals.

Subject Teacher

Mr.Pulate.C.P

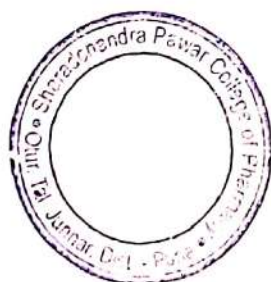
HOD

Academic Coordinator

Dr.Joshi.S.A

CO-PO Coordinator

Mrs.Bidkar S.J



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Dr.Dama.G.Y

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Code: SPCOP/ADM/FM/	Department: Academics	Ac. Yr.: 2020-21
Rev:00	<b>Course Outcome 2019 Pattern</b>	Class: First Year B. Pharm
		Page: 1 of 1

Course number: BP 105T

Title of course: Communication Skills (Theory) (2019 Pattern)

Course outcomes:

- BP 105T (01) Learn and understand the knowledge of communication skill.
- BP 105T (02) Learn and understand the concept of leadership, teamwork, personality development skill.
- BP 105T (03) Achieve the knowledge of body language and presentation skill, also achieve the knowledge of technical writing skill.
- BP 105T (04) Identify the concept of positive thinking that keeps the students in good mental state at the time of crisis and sharpen memory skills and other study skills that are essential for the academic excellence.

Ms. Vaishali A.  
Adsare  
Subject Teacher

Dr. S. Mantry  
HOD

Dr. Sumit Joshi  
Academic  
Coordinator

Ms. Shital J.  
Bidkar  
CO-PO  
Coordinator



Dr. G. Y. Dama  
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Code: SPCOP/ACD/FM/	Department : Academic	Ac. Yr. : 2020-21
Rev:00	Course outcome	Class: F. Y. B. Pharm. Sem.- II
Date:		Page: 1 of 1

**Course number: BP 201T (2019 Pattern)**

**Title of course: HUMAN ANATOMY AND PHYSIOLOGY-II (T)**

**Course outcomes:**

**BP 201 (1).** Explain the gross morphology, structure and functions of various organs of the human body. Describe the various homeostatic mechanisms and their imbalances.

**BP 201(2).** Identify the various tissues and organs of different systems of human body.

**BP 201(3).** Perform the hematological tests like blood cell counts, haemoglobin estimation, bleeding/clotting time etc. and also record blood pressure, heart rate, pulse and respiratory volume.

**BP 201 (4).** Appreciate coordinated working pattern of different organs of each system. Appreciate the interlinked mechanisms in the maintenance of normal functioning (homeostasis) of human body.

**Miss. Kadam A. J.**

**Subject Teacher**

**Dr. Joshi S. A.**

**HOD**

**Dr. Joshi S. A.**

**Academic Coordinator**

**Mrs. Bidkar S. J.**

**CO-PO Coordinator**



**Dr. G.Y. Dama**  
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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	Course outcome	Class: -- First Year (Sem-II)
Date:		Page: 1 of 1

Course number: BP202T

Title of course: Pharmaceutical Organic chemistry- I ( T ) (2019 Pattern)

Course outcomes:

BP202T(01) Clarify basic principles concepts of organic chemistry explain basic functional groups & IUPAC Nomenclature of Organic Compounds.

BP202T(02) Clarify Isomerism & apply that knowledge in understanding the Structure Property Relationship explain different Reaction Intermediates & their application in reaction mechanism

BP202T(03) Comprehend & explain how Addition & Elimination Reactions are performed with respect to Alkenes and alkynes. explain meaning of term 'Aromaticity' & different reaction involve in the formation of aromatic compound

BP202T(04) Explain the factors affecting strength of acid & base. Understand the reactivity , stability of compounds

Subject Teacher

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Academic coordinator

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CO-PO Co-ordinator

Mrs. Bidkar S.J.



Principal

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Code: SPCOP/ACD/FM/	Department : Academic	Ac. Yr. : 2020-21
Rev:00	Course Outcomes	Class: First. Y. B. Pharm. Sem.- II
Date: 01/04/2021		Page: 1 of 2

### Course outcome

**Course number: BP203T**

**Title of course: Biochemistry (T) (2019 Pattern)**

**Course outcomes:**

BP203(1) Understand the catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzymes.

BP203(2) Understand the metabolism of nutrient molecules in physiological and pathological conditions of carbohydrate, Biological oxidation.

BP203(3) Understand the metabolism of nutrient molecules in physiological and pathological conditions lipids, Amino acid.

BP203(4) Understand the genetic organization of mammalian genome and functions of DNA in the synthesis of RNAs and proteins.

  
Subject Teacher

Mr.Pulate.C.P

  
HOD

  
Academic Coordinator

Dr.Joshi.S.A

  
CO-PO Coordinator

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Rev:00	<b>Course Outcome</b>	Class: F. Y. B. Pharm (Sem-II)
Date:		Page: 1

**Course number: BP 204T**

**Title of course: Pathophysiology (Theory) (2019 Pattern)**

**Course outcomes:**

BP 204T (01) The study of causes of diseases and reactions of the body to such disease producing causes.

BP 204T (02) This course is designed to impart a thorough knowledge of the relevant aspects of pathology of various conditions with reference to its pharmacological applications, and understanding of basic pathophysiological mechanisms.

BP 204T (03) To study the syllabus of pathology, but also to get baseline knowledge required to practice medicine safely, confidently, rationally and effectively.

BP 204T (04) Pharmacotherapy of drugs is particularly not to be considered as a part of this subject from examination point of view as the subject deals with pathophysiological aspects of the diseases.

**Ms. Vaishali A.  
Adsare  
Subject Teacher**

**Dr. Sumit Joshi  
HOD**

**Dr. Sumit Joshi  
Academic  
Coordinator**

**Ms. Shital J.  
Bidkar  
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Coordinator**



**Dr. G. Y. Dama  
Principal**

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Rev:00	Course Outcome	Class: F. Y. B. Pharm (Sem-II)
Date:		Page: 1

### Course outcome

(2020-21)

Course Number :BP 206


Title of course: Environmental Sciences (T) (2019 Pattern) PCI


Course outcomes:


206 (01) Develop an attitude regarding multidisciplinary nature of environmental studies.

206(02) Explain concept, structure and various types of an ecosystem.

206 (03) Explain basic knowledge about the environment and creating awareness about environmental problems like Environmental Pollution.


  
Mrs. A. V. Gaikwad  
Subject Teacher

  
Dr. Mantry S.  
HOD

  
Dr. Joshi S. A.  
Academic Coordinator

  
Mrs. Bilkar S. J.  
CO-PO Coordinator



  
Dr. Dama G.Y.  
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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	Course outcome	Class: -- Second Year (Sem-III)
Date:		Page: 1 of 1

**Course number: BP301T**

**Title of course: Pharmaceutical Organic chemistry II ( T ) (2019 Pattern)**

**Course outcomes:**

BP 301(01) The structure,name and the type of isomerism of Organic Compounds. Clarify Isomerism & apply that knowledge in understanding the Structure Property

Relationship write the structure, name and the type of isomerism of the organic compound

BP301(02) General methods of preparation and reaction ,orientation of reactions of Benzene,phenols,amines,polynuclear Hydrocarbones.

BP301(03) Account for reactivity/stabilityof compound ex.Cycloalkane

BP301(04)Detail study of Chemical properties of Fats and Oil

Subject Teacher

Mrs. Chiwadshetti N.S. P'ceutical.Chem. Dep.

HOD

Academic coordinator

Dr. Joshi S.A.

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Mrs. Bidkar S.J.



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Code: SPCOP/ADM/FM/	Department : Academic	Ac. Yr. : 2020-21
Rev:00	COURSE OUTCOME	Class: Second Year B. Pharm.
Date: 02/08/2020		Sem.- III
		Page: 1 of 1

Course number: BP302T & BP306P

Title of course: PHYSICAL PHARMACEUTICS-I (Theory) 2019 patt

Course outcomes:

- 3.0.2 (01) Understand various physicochemical properties of drug molecules in the designing the dosage forms
- 3.0.2 (02) Know the principles of chemical kinetics & to use them for stability testing and determination of expiry date of formulations
- 3.0.2 (03) Demonstrate use of physicochemical properties in the formulation development and evaluation of dosage forms.
- 3.0.2(04) Find out composition of binary mixture by viscosity method. Evaluate viscosity, specific surface area, particle size distribution & derived properties of any material.

Subject Teacher

Mr.Devkadrno N.V

HOD

Dr. Mantry S.S

Academic coordinator

Dr. Joshi S.A

CO-OP Coordinator

Mrs. Bidkar S.J



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Dr. Dama G.Y

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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	Course Outcome	Class: S. Y. B.Pharm (Sem-III)
Date: 06/07/2020		Page: 1

### Course outcome

Course number: BP303 T

Title of course: Pharmaceutical Microbiology (T) (2019 Pattern)

Course outcomes:

BP303 (01) To understand methods of identification, cultivation & preservation of various microorganisms.

BP303 (02) To understand the importance of sterilization & fungi & viruses in pharmaceutical processing.

BP303 (03) Elaborate the details of aseptic area & To carried out microbiological standardization of Pharmaceuticals.

BP303 (04) To understand the cell culture technology & its applications in Pharmaceutical industries.

Mr. Mahajan K.C.  
Subject Teacher

Dr. Mantry S.  
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CO-PO Coordinator



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Code: SPCOP/ACD/FM/	Department : Academic	Ac. Yr. : 2020-21
Rev:00	Course outcome	Class: S. Y. B. Pharm. Sem.- III
Date:		Page: 1 of 1

## **Mapping of Course Outcome and Programme Outcome (2020-21)** **(2019 Pattern)**

**Course number: BP304T**

**Title of course: Pharmaceutical Engineering (TH)**

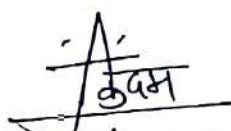
**Course outcomes:**

**BP304 (1).** To know various unit operations used in pharmaceutical industries and To understand the material handling techniques.


**BP304 (2).** To perform various processes involved in pharmaceutical manufacturing process and To carry out various test to prevent environmental pollution.

**BP304 (3).** To appreciate and comprehend significance of plant lay out design for optimum use of resources.

**BP304 (4).** To appreciate the various preventive methods used for corrosion control in Pharmaceutical industries.

  
Miss. Kadam A. J.


**Subject Teacher**

  
Dr. Mantry S.

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Dr. Joshi S. A.

**Academic Coordinator**

  
Mrs. Bidkar S. J.

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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	Course outcome	Class: -- Second Year (Sem-IV)
Date:		Page: 1 of 1

**Course number: BP401T**

**Title of course: Pharmaceutical Organic chemistry-III (T) (2019 Pattern)**

**Course outcomes:**

BP401T(01) Understand the methods of preparation and properties of Heterocyclic compound

BP401T (02 ) Understand various molecular structure and their interconversions

Understand relevance of stereochemistry & its significance in Pharmaceutical Science

BP401T (03) ) ) Explain conformational Analysis and draw various conformational structures for different molecules

BP401T (04) Explain mechanism and applications of rearrangement of electron deficient & electron

rich systems..

Subject Teacher

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Code: SPCOP/ACD/FM/	Department : Academic	Ac. Yr. : 2020-21
Rev:00	Course outcome	Class: S. Y. B. Pharm. Sem.- IV
Date:		Page: 1 of 1

Course number: BP402T (2019 Pattern)

Title of course: MEDICINAL CHEMISTRY – I(T)

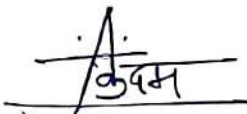
Course outcomes:


BP 402 (1). Understand significance and establish relevance of Medicinal Chemistry in Pharmaceutical Sciences. The chemistry of drugs with respect to their pharmacological activity.


BP 402 (2). Understand the drug metabolic pathways, adverse effect and therapeutic value of Drugs.

BP 402 (3). Know the Structural Activity Relationship (SAR) of different class of drugs.


BP 402 (4). Write the chemical synthesis of some drugs.

  
Miss. Kadam A. J.  
Subject Teacher

  
Dr. Joshi S. A.  
HOD Academic Coordinator

  
Mrs. Bidkar S. J.  
CO-PO Coordinator



  
Dr. G.Y. Dama  
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Code: SPCOP/ADM/FM/	Department : Academic	Ac. Yr. : 2020-21
Rev:00	COURSE OUTCOME	Class: Second Year B. Pharm. Sem.- IV
Date: 02/08/2020		Page: 1 of 1

Course number: BP403T & BP 407P

Title of course: PHYSICAL PHARMACEUTICS-II (Theory) 2019 patt

**Course outcomes:**

- 4.0.3 (01) Understand various physicochemical properties of drug molecules in the Designing the dosage forms.
- 4.0.3 (02) Know the principles of chemical kinetics & to use them for stability testing and determination of expiry date of formulations
- 4.0.3 (03) Demonstrate use of physicochemical properties in the formulation development and evaluation of dosage forms.
- 4.0.3 (04) Find out composition of binary mixture by viscosity method. Evaluate viscosity, specific surface area, particle size distribution & derived properties of any material.

Subject Teacher

Mr.Devhadrao N.V

HOD

Dr. Mantry S.S

Academic coordinator

Dr. Joshi S.A

CO-OP Coordinator

Mrs. Bidkar S.J

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Dr. Dama G.Y

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Code: SPCOP/ACD/FM/

Department : Academic

Ac. Yr. : 2020-21

Rev:00

Course outcome

Class: S. Y. B. Pharm. Sem.- IV

Date:

Page: 1 of 1

**Course number: BP404T**

**Title of course: Pharmacology-I (T) (2019)**

**Course outcomes:**

BP404 (1). Understand the pharmacological actions of different categories of drugs.

BP404 (2). Explain the mechanism of drug action at organ system/sub cellular/ macromolecular levels.

BP404 (3). Apply the basic pharmacological knowledge in the prevention and treatment of various diseases.

BP404 (4). Observe the effect of drugs on animals by simulated experiments and Appreciate correlation of pharmacology with other bio medical sciences

**Subject Teacher**  
**Miss. Gawade A.S.**

**HOD**  
**Dr. Joshi S.A.**

**Academic coordinator**  
**Dr. Joshi S.A.**

**COPD coordinator**  
**Mrs. Bidkar S. J.**

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**Dr. G.Y.Dama**



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DUMBARWADI, (OTUR), TAL:JUNNAR, DIST: PUNE, 412409.

Code: SPCOP/ADM/FM/

Department: Academic

Ac. Yr: 2019-20

Rev:00

Course Outcome 2018 Pattern

Class: Second Year B. Pharm

Page: 1 of 1

**Course number: BP405T**

**Title of Course: Pharmacognosy and Phytochemistry –I (Theory) 2018 pattern**

**Course outcomes:**

BP405T(01) Explain history, scope, development of pharmacognosy, sources of drugs and differentiate between organized and unorganized drugs.

BP405T (02) Understand and explain classification of drugs and quality control of drugs of natural origin.

BP405T (03) Comprehend and understand cultivation, collection, processing, storage of drugs of natural origin, conservation of medicinal plants, plant tissue culture including its development, applications. Explain and understand morphology and anatomy of plant parts. Explain classification, properties, identification of Glycosides, Tannins, volatile oil, Flavanoids and Resins.

BP405T (04) Comprehend the biological source, chemical nature, uses of plant fibers, hallucinogens, Teratogens, Natural allergens. Understand and explain pharmacognostic study of carbohydrates, Proteins, enzymes, lipids, marine drugs.

**Subject Teacher**  
**Mr. N. B. Aher**

**HOD**  
**Dr. J.S. Bidkar**

**Academic Coordinator**  
**Dr. S.A. Joshi**

**Principal**  
**Dr. G. Y. Dama**



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Code: SPCOP/ACD/FM/

Department : Academic

Ac. Yr. : 2020-21

Rev:00

Course Outcomes

Class: Third. Y. B. Pharm. Sem.- V

Date: 6/07/2020

Page: 1 of 2

### Course outcome

**Course number: BP501T**

**Title of course: Medicinal Chemistry-II (T) (2019 Pattern)**

**Course outcomes:**

BP501(01) Concept of Anti-Histaminics agents and Autocoids in detail with chemistry, SAR and M.O.A.

BP501(02) Know the Classification, SAR, Mechanism of action, Synthesis of Drugs acting on Cardiovascular Systems.

BP501(03) Study the various classes of the Drugs acting on Endocrine systems with Chemical Classification, SAR, Mechanism of Action, Adverse effects, Therapeutic uses.

BP501(04) Learn about Antidiabetics and Local Anaesthetics Drugs with SAR, Chemistry, mechanism of action, adverse effects, therapeutic uses.

Subject Teacher

Mr.Pulate.C.P

HOD

Academic Coordinator

Dr.Joshi.S.A

CO-PO Coordinator

Mrs.Bidkar S.J



Principal

Dr.Dama.G.Y

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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	<b>Course Outcome</b>	Class: T. Y. B.Pharm (Sem-V)
Date:		Page: 1

**Course number: BP502T**

**Title of course: INDUSTRIALPHARMACY-I/ FORMULATIVE PHARMACY**

**(Theory) (2018 Pattern)**

**Course outcomes:**

**BP502T(01)** Illustrate preformulation, study of physicochemical characteristics of drug substances. Formulation development of tablets & tablet coating, IPQC & QC ,equipments, defects & remedies over it.

**BP502T(02)** Describe Preformulation, Formulation and manufacturing consideration of syrups and elixirs suspensions and emulsions; formulation of capsules & Pellets

**BP502T(03)** Formulate parenteral product and evaluate them for their quality.

**BP502T(04)** Illustrate Formulation and preparation of the cosmetics, Pharmaceutical Aerosols and describe Materials used for packaging of pharmaceutical products, & their quality control tests.

**Subject Teacher**

**Prof. S.J. Bidkar**

**HOD**

**Dr. Mantry S.**

**Academic coordinator**

**Dr. Joshi S.A.**

**CO-PO Co-ordinator**

**Prof. S.J. Bidkar**



**Principal**

**Dr. G. Y. Dama**

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Code: SPCOP/ACD/FM/,	Department : Academic	Ac. Yr. : 2020-21
Rev:00	Course outcome	Class: T. Y. B. Pharm. Sem. - V
Date:		Page: 1 of 1

Course number: BP503T

Title of course: Pharmacology-II (T) (2018)


Course outcomes:

BP503T 1. Understand the mechanism of drug action and its relevance in the treatment of different diseases

BP503T 2. Demonstrate isolation of different organs/tissues from the laboratory animals by simulated experiments

BP503T 3. Demonstrate the various receptor actions using isolated tissue preparation

BP503T 4. Appreciate correlation of pharmacology with related medical sciences

  
02/02/2021  
Subject Teacher

Miss. Gawade A.S.

  
HOD

Dr. Joshi S.A.

  
Academic coordinator

Dr. Joshi S.A.



Principal

Dr. G.Y. Dama

PRINCIPAL

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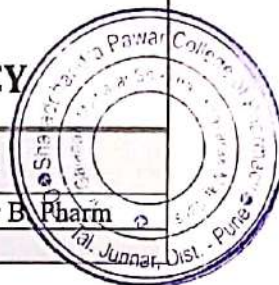




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Rev:00	Course Outcome 2018 Pattern	Class: Third Year B Pharm
		Page: 1 of 1



**Course number: BP504T**

**Title of Course: Pharmacognosy and Phytochemistry –II (Theory) 2018 pattern**

**Course outcomes:**

BP504T (01) Understand the modern extraction techniques, characterization and identification of the herbal drugs and phytoconstituents

BP504T (02) Understand the production of of Phytoconstituents /herbal formulation.

BP504T (03) Comprehend and understand the metabolic pathways in formation of secondary metabolites. Explain secondary metabolites formation in the crude drugs.

BP504T (04) Comprehend and understand isolation and identification of phytoconstituents.

phytochemicals formation through plant tissue culture, drug interactions and basic principles of traditional system of medicine

**Subject Teacher**  
**Mr. N. B. Aher**

**HOD**  
**Dr. J.S. Bidkar**

**Academic Coordinator**  
**Dr. S.A. Joshi**

**Principal**  
**Dr. G. Y. Dama**



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Rev:00	Course Outcomes	Class: Third. Y. B. Pharm. Sem.- VI
Date: 21/01/2021		Page: 1 of 2

### Course outcome

Course number: BP601T

Title of course: Medicinal Chemistry-III (T) (2019 Pattern)

Course outcomes:

BP601(01) Concept of Antibiotics agents in detail with chemistry, SAR and M.O.A.

BP601(02) Know the Classification, SAR, Mechanism of action ,Synthesis of Antmalarials  
and Anti-Neoplastic agents.

BP601(03) Study the various classes of the Antimycobacterial ,Antiviral,Antifungal ,Anti-  
Protozoal, Anthelmintics, anti-infective agents with Chemical Classification, SAR,  
Mechanism of Action, Adverse effects, Therapeutic uses.

BP601(04) Learn about the Drug Design.

Subject Teacher

Mr.Pulate.C.P

HOD

Academic Coordinator

Dr.Joshi.S.A

CO-PO Coordinator

Mrs.Bidkar S.J



Principal

Dr.Dama.G.Y

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Rev:00	Course outcome	Class : T. Y. B. Pharm. Sem - VI
Date:		Page: 1 of 1

**Course number: BP602T**

**Title of course: Pharmacology-III (T) (2018)**

**Course outcomes:**

BP602T. Understand the mechanism of drug action and its relevance in the treatment of different infectious diseases

BP602T. Comprehend the principles of toxicology and treatment of various poisonings

BP602T. Appreciate correlation of pharmacology with related medical sciences

BP602T. Emphasis on the principles of toxicology and chronopharmacology.

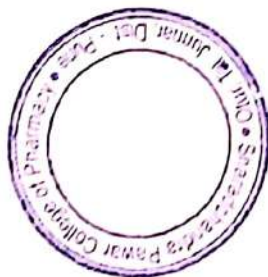
**Subject Teacher**  
**Miss. Gawade A.S.**

**HOD**  
**Dr. Joshi S.A.**

**Academic coordinator**  
**Dr. Joshi S.A.**

**COPO coordinator**  
**Mrs. Bidkar S. J.**

**Principal**  
**Dr. G.Y. Dama**



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Rev:00	Course Outcome	Class: Third Yr. B. Pharm. Sem.- VI
Date: 02/08/2021		Page: 1 of 1

### Course outcome (2020-21)

Course number: 6.0.3

Title of course: Herbal Drug Technology (T) [2018 Patt.]

Course outcomes:

6.0.3 (01) Understand raw material as source of herbal drugs from cultivation to herbal drug product.

6.0.3 (02) Knowledge of Traditional System of medicine, Roll of Pharmacognosy, WHO and ICH guidelines for evaluation of herbal drugs

6.0.3 (03) Study the herbal cosmetics, herbal excipients, nutraceuticals, drug interactions.

6.0.3 (04) Appreciate patenting, Regulatory affairs, herbal drugs industry and GMP.

Subject Teacher  
(Dr. Bidkar J. S.)

HOD  
(Dr. Bidkar J. S.)

Academic coordinator  
(Dr. Joshi S. A.)

CO-PO Coordinator  
(Mrs Bidkar S. J.)



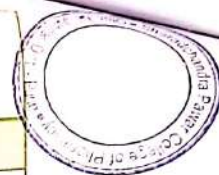
Principal  
(Dr. Dama G. Y.)

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Rev:00	COURSE OUTCOME	Class: Final Year B. Pharm. Sem.- VI
Date: 02/01/2021		Page: 1 of 1

Course number: BP 604 T

Title of course: BIO-PHARMACEUTICS & PHARMACOKINETICS (Theory) (2018 Pattern)

Course outcomes:

- 6.0.4 (01) Understand the basic concepts in biopharmaceutics and pharmacokinetics and their significance.
- 6.0.4 (02) Use plasma drug concentration-time data to calculate the pharmacokinetic parameters to describe the kinetics of drug absorption, distribution, metabolism, excretion, elimination.
- 6.0.4 (03) Understand the concepts of bioavailability and bioequivalence of drug products and their significance.
- 6.0.4 (04) Understand the concept of dissolution and application of in vitro in vivo correlation in drug product development.

Subject Teacher  
Dr. Shubhrajit Mantry

HOD  
Dr. Shubhrajit Mantry

Academic coordinator  
Dr. Sumit A. Joshi

Co-PO coordinator  
Mrs. Sheetal J. Bidkar

PRINCIPAL  
Dr. G. Y. Dama  
PRINCIPAL

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Department : Academics

Ac. Yr. : 2020-21

Rev:00

Course Outcome

Class: T. Y. B.Pharm (Sem-VI)

Date: 21/1/21

Page: 1

### Course outcome

Course number: BP 605 T

Title of course: Pharmaceutical Biotechnology (T) (2018 Pattern)


Course outcomes:


BP605 (01) To describe Enzyme Immobilization Technology & use of microbes in industry.

BP605 (02) To know the applications of applications of genetic engineering & Recombinant DNA Technology.

BP605 (03) To discuss about Immunology & Importance of Hybridoma Technology.

BP605 (04) To explain the use of Fermenter Technology & Microbial Genetics

  
Mr. Mahajan K.C.  
Subject Teacher

  
Dr. Mantry S.  
HOD

  
Dr. Joshi S. A.  
Academic Coordinator

  
Mrs. Bidkar S. J.  
CO-PO Coordinator





Dr. G. Y. Dama  
Principal

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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	Course Outcome	Class: T. Y. B.Pharm (Sem-VI)
Date:		Page: 1

Course number: BP606T

Title of course: Pharmaceutical Quality Assurance (Theory) (2018 Pattern)

Course outcomes:

BP606T(01) Understand Quality Assurance and Quality Management concepts, elements of TQM, ICH Guidelines, QbD, ISO 9000 & ISO14000 and NABL accreditation.

BP606T(02) Describe Personnel responsibilities, Premises, Equipments and raw materials.

BP606T(03) Illustrate Quality Control of Packaging material, Good Laboratory Practices & Role of CPCSEA. Describe Complaints and evaluation of complaints.

BP606T(04) Illuminate Document maintenance in pharmaceutical industry, Calibration, Validation and Warehousing.

  
Subject Teacher

Prof. S.J. Bidkar

  
HOD

Dr. Mantry S.

  
Academic coordinator

Dr. Joshi S.A.

  
CO-PO Co-ordinator

Prof. S.J. Bidkar



Principal

Dr. G. Y. Dama



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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	Course Outcome	Class:Final. Y. B.Pharm (Sem-VII)
Date:		Page: 1

Course number: 4.7.1

Title of course: STERILE PRODUCTS (Theory) (2015 Patern)

Course outcomes:

- 4.7.1(01) Describe the General requirements, of sterile products Describe various packaging materials used, and methods of evaluation.
- 4.7.1(02) Describe the GMP and design and layout of Parenteral Production Facility, & environmental control.
- 4.7.1(03) Explain General requirements, formulation, types and evaluation of ophthalmic products. Describe Blood Products and Surgical Dressings.
- 4.7.1(04) Evaluation of marketed preparations. Significance and Accelerated stability testing of marketed samples.

Subject Teacher

Prof. S.J. Bidkar

HOD

Dr. Mantry S.

Academic coordinator

Dr. Joshi S.A.

CO-PO Co-ordinator

Prof. S.J. Bidkar



Principal

Dr. G. Y. Dama

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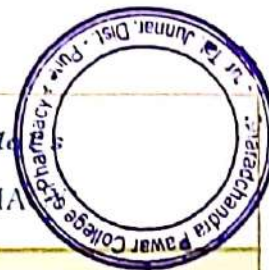
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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	Course Outcome	Class: Final Yr. B.Pharm (Sem-VII)
Date:		Page: 1

## Course outcome

2020 - 2021

Course number: 4.7.2

Title of course: PHARMACEUTICAL ANALYSIS - V (T) (2015 Pattern)

Course outcomes:

4.7.2 (01) Concept of Infrared Spectroscopy in detail.

4.7.2 (02) Know the separation analytical technique with their Principle, instrumentation,

Applications of Gas Chromatography, Flash Chromatography, Supercritical Fluid Chromatography.

4.7.2 (03) Study the various Microscopic technique like scanning electron microscopy,

Transmission electron microscopy.

4.7.2 (04) Learn about Near Infrared Spectroscopy, Atomic emission spectroscopy,

Raman Spectroscopy.

Mrs. A. V. Gaikwad  
Subject Teacher

HOD

Dr. Joshi S. A.  
Academic Coordinator

Mrs. Bidkar S. J.  
CO-PO Coordinator



Dr. Dama G.Y.  
Principal  
**PRINCIPAL**

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Code: SPCOP/ACD/FM/	Department : Academic	Ac. Yr. : 2020-21
Rev:00	Course Outcomes	Class: Final . Y. B. Pharm. Sem.- VII
Date: 06/07/2020		Page: 1 of 2

### Course outcome

Course number: 4.7.3T

Title of course: MEDICINAL CHEMISTRY-III (T) (2015 Pattern)

Course outcomes:

4.7.3 (01) Concept of antibiotics with SAR, adverse effect , therapeutic effect and synthesis.

4.7.3 (02) Study the Antineoplastics and monoclonal antibodies.

4.7.3(03) Study the Various anti-infective agents such as antibacterial agents, antitubercular, antileprotic, antifungal, antimalarial and antiamebic.

4.7.3 (04) Learn about anthelmintics , antiviral, Trypanosomicidal agents.

Subject Teacher

Mr.Pulate.C.P

HOD

Academic Coordinator

Dr.Joshi.S.A

CO-PO Coordinator

Mrs.Bidkar S.J



Principal

Dr.Dama.G.Y

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Rev:00	Course Outcome 2015 Pattern	Class: Final Year B. Pharm
Date:-		Page: 1 of 1

## Course Number: 4.7.4

**Title of course: Pharmacology-IV (Theory) 2015 pattern**

### Course outcomes:

4.7.4 (01) Classification, mechanism of action, antibacterial spectrum, resistance, therapeutic uses, adverse effects and contraindications of various antibiotics.

4.7.4 (02) Various endocrine hormones, its types, receptors involved and mechanisms involved.

4.7.4 (03) Biosynthesis, Mechanism of action, Pharmacology and regulation of Thyroid, Anti-thyroid drugs and Parathyroid hormones, insulin and glucagon and Pharmacotherapy of Diabetes Mellitus.

4.7.4 (04) Pharmacology of Androgens, Estrogens, Progestin and oral contraceptives.

Subject Teacher

(Dr. Joshi S. J.)

HOD

Academic Coordinator

CO-PO Coordinator



Principal

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Rev:00	Course Outcome	Class: Final Yr. B. Pharm. Sem.- VII
Date: 02/01/2021		Page: 1 of 1

### Course outcome (2020-21)

Course number: 4.7.5

Title of course: Natural Drug Technology (T) [2015 Patt.]

Course outcomes:

- 4.7.5 (01) Understand methods of processing of crude drugs with reference to WHO guidelines and standardization of Secondary metabolites.
- 4.7.5 (02) Study of plant biotechnical methods and in vitro screening methods for its bioassay.
- 4.7.5 (03) Overview of Traditional system of medicine and methods to be used in structural Elucidation of natural products.
- 4.7.5 (04) Knowledge of Herbal Novel Drug Delivery System and herbal cosmetics for skin and hair.

Subject Teacher  
(Dr. Bidkar J. S.)

HOD  
(Dr. Bidkar J. S.)

Academic coordinator  
(Dr. Joshi S. A.)

CO-PO Coordinator  
(Mrs. Bidkar S. J.)



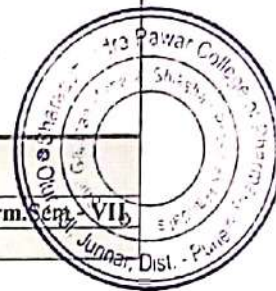
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(Dr. Dama G. Y.)

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Code: SPCOP/ADM/FM/	Department : Academic	Ac. Yr. : 2020-21
Rev:00	<b>COURSE OUTCOME</b>	Class: Final Year B. Pharm. Sem - VII
Date:02/01/2021		Page: 1 of 1

### Course outcome


Course number: 4.7.6


Title of course: BIO-PHARMACEUTICS & PHARMACOKINETICS (Theory)

(2015 Pattern)

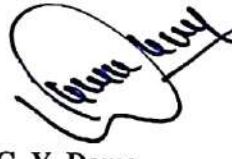
#### Course outcomes:

- 4.7.6 (01) Explain in detail concept of biopharmaceutics and its application in designing of formulation development. Explain details mechanism and factor influencing of Absorption, Distribution, Metabolism, Excretion
- 4.7.6 (02) Detail description on the various compartment and non compartment methods with all mathematical equation
- 4.7.6 (03) Explain concept and theories of dissolution, *in-vitro in-vivo* correlation, biopharmaceutics classification and Nonlinear pharmacokinetics
- 4.7.6 (04) Detail concept & measurement of bioavailability and bioequivalence studies.

  
**Dr. Shubhrajit Mantry**  
Subject Teacher

  
**Dr. Shubhrajit Mantry**  
HOD

  
**Dr. Sumit A Joshi**  
Academic coordinator

  
**Dr. G. Y. Dama**  
Principal



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Code: SPCOP/ADM/FM/	Department : Academic	Ac. Yr. : 2020-21
Rev:00	COURSE OUTCOME	Class: Final Year B. Pharm. Sem.- VII
Date: 02/08/2020		Page: 1 of 1

Course number: 4.7.7

Title of course: PHARMACEUTICAL JURISPRUDENCE (Theory) 2015 patt

Course outcomes:

- 4.7.7 (01) To understand .Basic principles, purpose and dimensions of the laws.
- 4.7.7 (02) To understand significance of Schedule M and Schedule Y related Manufacturing & Clinical trials.
- 4.7.7 (03) Identify potential fraud and abuse legal issues of narcotic & psychotropic substance.
- 4.7.7 (04) To understand the regulatory system for safety and effectiveness of medicine and Quality of product.

Subject Teacher

Mr.Devhadrao N.V

HOD

Dr. Mantry S.S

Academic coordinator

Dr. Joshi S.A

CO-OP Coordinator

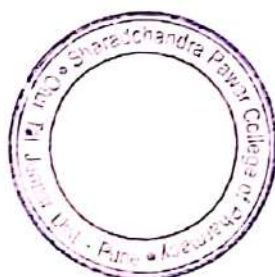
Mrs. Bidkar S.J

Principal

Dr. Dama G.Y

PRINCIPAL

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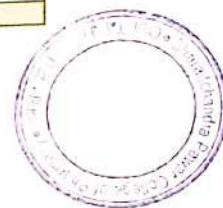
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Rev:00	<b>COURSE OUTCOME</b>	Class: Final Year B. Pharm. Sem.- VIII
Date: 02-01-2021		Page: 1 of 1


Course number: 4.8.1

Title of course: Advanced Drug Delivery System (T) (2015 Pattern)

Course outcomes:

- 4.8.1(01) Fundamental Concept of Modified Drug Release, Polymers & their classification, types, selection, application and examples.
- 4.8.1(02) Introduction, formulation, merits, demerits, application and evaluation of Novel Drug Delivery Systems.
- 4.8.1(03) Therapeutic Aerosols along with typical formulations from, metered dose, intranasal and topical applications.
- 4.8.1(04) Concept of microencapsulation, merits, demerits and application, Explain Basic concept of optimization.



  
Subject Teacher

Dr. Shubhrajit Mantry



HOD

Dr. Shubhrajit Mantry



Academic coordinator

Dr. Sumit A. Joshi



Co-PQ coordinator

Mrs. Sheetal J. Bidkar



PRINCIPAL

Dr. G. Y. Dama

PRINCIPAL

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Code: SPCOP/ADM/FM/	Department : Academic	Ac. Yr. : 2020-21
Rev:00	COURSE OUTCOME	Class: Final Year B. Pharm. Sem.- VIII
Date: 02/08/2020		Page: 1 of 1

Course number: 4.8.2

Title of course: COSMETIC SCIENCE (Theory) 2015 patt

**Course outcomes:**

- 4.8.2 (01) To Understand the concepts of cosmetics; anatomy of skin v/s hair, general excipients  
Used in cosmetics.
- 4.8.2 (02) Explain formulation of cosmetics for skin, manufacturing, equipments & evaluation  
Of creams like cold cream, vanishing cream etc. & powder cosmetics.
- 4.8.2 (03) Learn formulation, manufacture & evaluation of baby cosmetics like baby oils,  
Powders etc
- 4.8.2 (04) explain the concept of cosmeceuticals, history, and difference between cosmetics  
& cosmeceuticals & cosmeceuticals agents.

Subject Teacher

Mr.Devhadrao N.V

HOD

Dr. Mantry S.S

Academic coordinator

Dr. Joshi S.A

CO-OP Coordinator

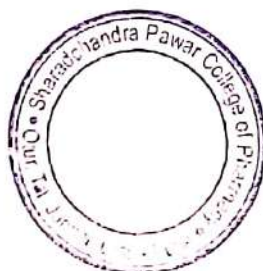
Mrs. Bidkar S.J

Principal

Dr. Dama G.Y

PRINCIPAL

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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	Course Outcome	Class: Final Yr. B.Pharm (Sem-VIII)
Date:		Page: 1

### Course outcome

2020 - 2021

Course number: 4.8.3

Title of course: PHARMACEUTICAL ANALYSIS - VI (T) (2015 Pattern)

Course outcomes:

4.8.3 (01) Study the Principle, instrumentation, application of NMR Spectroscopy

4.8.3 (02) Learn the Electron Spin Resonance spectroscopy, Mass spectroscopy in details.

4.8.3 (03) understand the analytical separation techniques like High Performance liquid

Chromatography, Ion Exchange Chromatography, Ultra performance

Liquid Chromatography.

4.8.3 (04) Know about Capillary Electrophoresis.

Mrs. A. V. Gaikwad.  
Subject Teacher

HOD

Dr. Joshi S. A.  
Academic Coordinator

Mrs. Bidkar S. J.  
CO-PO Coordinator



Dr. Principal  
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Code: SPCOP/ACD/FM/	Department : Academic	Ac. Yr. : 2020-21
Page: 00	Course Outcomes	Class: Final. Y. B. Pharm. Sem.- VIII
Date: 23/01/2021		Page: 1 of 2

**Course outcome**

Course number: 4.8.4T

Title of course: MEDICINAL CHEMISTRY-IV (T) (2015 Pattern)

Course outcomes:

4.8.3 (01) Know the general aspects of design of the drug , History , classification, nomenclature, Structure activity Relationship ( SAR), Mechanism of action, therapeutic uses, adverse effect and recent development in the antihistamines , Proton pump inhibitors, Autocoids.

4.8.3 (02) Design and development of drugs including classification, Nomenclature, structure Activity relationship(SAR) and recent development , therapeutic uses, scheme of the synthesis of drug belonging NSAIDS, analgesics & antipyretics, Narcotic agents.

4.8.3 (03) Different Classes , Mechanism of action, SAR of steroidal drugs , Hormones and Diagnostic agents.

4.8.3 (04) Classification , mode of action, SAR of Insuline & Oral Anti-Hyperglycemic drugs And Serotonergic agents.

Subject Teacher

Mr.Pulate.C.P

HOD

Academic Coordinator

Dr.Joshi.S.A

CO-PO Coordinator

Mrs.Bidkar S.J

Principal

Dr.Dama.G.Y

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Code: SPCOP/ADM/FM/ Rev:00 Date:-	Department: Academic Course Outcome 2015 Pattern	Ac. Yr. : 2020-21 Class: Final Year B. Pharm Page: 1 of 1

**Course number: 4.8.5**

**Title of Course: PHARMACOLOGY – V Including Biostatistics (Theory) 2015 pattern**

**Course outcomes:**

- 4.8.5(01) Important aspect, classification, mechanism of drug-drug interaction and ADRs.
- 4.8.5(02) Basic aspects of drug safety and Pharmacovigilance in relation to monitoring and reporting of ADRs.
- 4.8.5(03) Functioning and role of hospital pharmacy and practice of rational drug therapy and methods of assessment of patient compliance and non-compliance.
- 4.8.5(04) Clinical trials, ethics and practice of Good Clinical Practice involved in clinical trials. Process, working and personnel involved in clinical data management and their roles.


  
 Subject Teacher  
 Dr. Joshi S. J.

**HOD**

  
 Academic Coordinator

  
 CO-PO Coordinator



  
 Principal  
**PRINCIPAL**  
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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	Course Outcome	Class: Final Yr. B. Pharm. Sem.- VIII
Date: 02/08/2021		Page: 1 of 1

**Course Outcome (2020-21)**

Course number: 4.8.6

Title of course: Natural Products: Commerce, Industry and Regulations (T) [2015 Patt.]

Course outcomes:

- 4.8.6 (01) By realizing the significance of natural products a focus on its commerce including domestic and global market size, demand and supply ratio, import and export potential.
- 4.8.6 (02) Knowledge of position and potential of herbal drug industry in global market along with rules and regulations, its guidelines and documentation including Pharmacovigilance and safety monitoring of herbal medicines.
- 4.8.6 (03) Exploration of government organizations and promotional policies for various natural products and Toxicity profile and drug interactions of natural products
- 4.8.6 (04) Study of plant allergens, their reactions remedies and to inculcate entrepreneurship skills in students to grab opportunities in natural product business.

Subject Teacher  
(Dr. Bidkar J. S.)

HOD  
(Dr. Bidkar J. S.)

Academic coordinator  
(Dr. Joshi S. A.)

Co-PO Coordinator  
(Mrs. Bidkar S. J.)



Principal  
(Dr. Dama G. Y.)

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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2020-21
Rev:00	<b>Course Outcome</b>	Class:Final. Y. B.Pharm (Sem-VIII)
Date:		Page: 1

**Course number: 4.8.7**

**Title of course: Quality Assurance Techniques (Theory) (2015 Pattern)**

**Course outcomes:**

- 4.8.7 (01) Clarify significance of quality & qualification in pharmaceutical manufacturing.
- 4.8.7 (02) Know current good manufacturing practices, good laboratory practices and good documentation practices in pharmaceutical industry.
- 4.8.7 (03) Simplify the role of regulatory agencies in deciding quality standards and significance of validation in quality assurance.
- 4.8.7 (04) Study about concept of quality by design and quality management system.

  
Subject Teacher

Prof. S.J. Bidkar


HOD

Dr. Mantry S.

  
Academic coordinator

Dr. Joshi S.A.

  
CO-PO Co-ordinator  
Prof. S.J. Bidkar

  
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