



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. : 2021-22
Rev:00	Course outcome	Class: F. Y. B. Pharm. Sem - I
Date:		Page: 1 of 1

Course number: BP101T

Title of course: HUMAN ANATOMY AND PHYSIOLOGY-I (Theory) (2019 Pattern)

Course outcomes:

BP101 (1). Explain the gross morphology, structure and functions of various organs of the human body.

BP101 (2). Describe the various homeostatic mechanisms and their imbalances.

BP101 (3). Identify the various tissues and organs of different systems of human body.

BP101 (4). Perform the various experiments related to special senses and nervous system and Appreciate coordinated working pattern of different organs of each system.

Subject Teacher

Dr. Joshi S.A.

HOD

Dr. Joshi S.A.

Academic coordinator

Dr. Joshi S.A.

Principal

Dr. G.Y. Dama

PRINCIPAL

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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2021-22
Rev:00	Course Outcome	Class: F. Y. B.Pharm (Sem-I)
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Course outcome


2021 - 2022

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



Dr. A. V. Gaikwad
Subject Teacher


HOD


Dr. Joshi S. A.
Academic Coordinator


Mrs. Bidkar S. J.
CO-PO Coordinator




Dr. Dama G.Y.
Principal
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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2021-22
Rev:00	Course Outcome	Class: F. Y. B.Pharm (Sem-I)
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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.

Dr. Mahajan K.C.
Subject Teacher

Dr. Mantry S.
HOD

Dr. Joshi S. A.
Academic Coordinator

Mrs. Bidkar S. J.
CO-PO Coordinator



Dr. Dama G.Y.
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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2021-22
Rev:00	Course outcome	Class: -- First Year (Sem-I)
Date:		Page: 1 of 1

Course number: BP104T

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

Course outcomes:

BP104T(01) Clarify the sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals methods of preparation and medicinal uses of Pharmaceutical drugs.

BP104T(02) Comprehend & explain acids ,basis and buffers and intracellular electrolytes medicinal importance of dental products

BP104T(03) Understand the medicinal and Pharmaceutical importance of inorganic compounds such as gastrointestinal agents,Cathartics and Antimicrobials.

BP104T(04) Understand the medicinal and Pharmaceutical importance of miscellaneous compounds ,expectorants, emetics, Haematinics , antidots ,Astringents and REDIOPHARMACEUTICALS

Subject Teacher

Dr.Chiwadshetti N.S.

HOD

Dr.Gaikwad A.V.

Academic coordinator

Dr. Joshi S.A.

CO-PO Co-ordinator

Mrs. Bidkar S.J.

Principal

Dr. G. Y. Dama



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Code: SPCOP/ADM/FM/ Rev: 00	Department: Academics	Ac. Yr.: 2021-22
Date: 21 Dec 2022	Course Outcome	Class: First Yr. B. Pharm (Sem-I)
		Page: 1

Course number: BP 105T

Title of course: COMMUNICATION SKILLS (Theory) (2019 Pattern)

Course outcomes:

- BP 105T (01) Understand the behavioral needs for a Pharmacist to function effectively in the areas of pharmaceutical operation
- BP 105T (02) Communicate effectively (Verbal and Non Verbal)
- BP 105T (03) Effectively manage the team as a team player
- BP 105T (04) Develop interview skills and Leadership qualities

Ms. Vaishali A. Adsare
Subject Teacher

Dr. Sumit A. Joshi
HOD & Academic
Coordinator

Ms. Shital J. Bidkar
CO-PO Coordinator

Dr. G. Y. Dama
Principal

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Code: SPCOP/ACD/PM/	Department : Academic	Ac. Yr. : 2021-22
Rev:00	Course outcome	Class: F. Y. B. Pharm. Sem.- II
Date:		Page: 1 of 1

Course number: BP201T

Title of course: HUMAN ANATOMY AND PHYSIOLOGY-II (Theory) (2019 Pattern)

Course outcomes:

BP201 (1). Explain the gross morphology, structure and functions of various organs of the human body.

BP201 (2). Describe the various homeostatic mechanisms and their imbalances.

BP201 (3). Identify the various tissues and organs of different systems of human body.

BP201 (4). Perform the hematological test and Appreciate coordinated working pattern of different organs of each system.

Subject Teacher
Mr. Hupparage V.B.

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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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2021-22
Rev:00	Course outcome	Class: -- First Year (Sem-II)
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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 and Hybridization of Organic Compounds.

BP202T(02) Comprehend & explain how Addition & Elimination Reactions are performed with respect to Alkenes and alkynes and alkyl halides, alcohols .

BP202T(03) Clarify Isomerism & apply that knowledge in understanding the Structure Property Relationship explain different Reaction Intermediates of carbonyl compounds ,aldehydes ,ketones & their application in reaction mechanism

BP202T(04) Identify and confirm the factors affecting strength of acid & base. Understand the reactivity , stability of carboxylic acids and aliphatic amines compounds


Subject Teacher

Dr. Chiwadshetti N.S.


HOD

Dr. Gaikwad A.V.


Academic coordinator

Dr. Joshi S.A.


CO-PO Co-ordinator

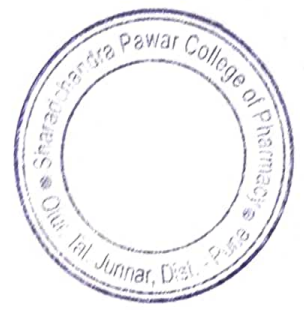
Mrs. Bidkar S.J.




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Course outcome

Course number: BP203T

Title of course: BIOCHEMISTRY (T) 2019 Pattern

Course outcomes:

BP 203 (1). Understand the catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzymes.

BP 203 (2). Understand the metabolism of nutrient molecules in physiological and pathological conditions of carbohydrate, Biomolecules, Biological Oxidation & Bioenergetics.

BP 203 (3). Understand the metabolism of nutrient molecules in physiological and pathological conditions lipids, Amino acid.

BP 203 (4). Understand the genetic organization of mammalian genome and functions of DNA & synthesis of RNAs and proteins.


Subject Teacher

Miss. Date T.H.


HOD

Dr. Gaiwad A.V.


Academic Incharge

Dr. Joshi S.A.


Co Po Cordinator

Mrs. Bidkar S.J.


Principal

Dr. G.Y. Dama

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Code: SPCOP/ADM/FM/ Rev: 00 Date: 13 Dec 2022	Department: Academics Course Outcome	Ac. Yr.: 2021-22 Class: F. Y. B. Pharm (Sem-II) Page: 1
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Course number: BP 204T

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

Course outcomes:

BP 204T (01) Description of the etiology of the diseases.

BP 204T (02) Description of the pathogenesis of the disease states.

BP 204T (03) Identification of the signs of the diseases.

BP 204T (04) Identification of the symptoms of the diseases.

Ms. Vaishali A. Adsare
Subject Teacher

Dr. Sumit A. Joshi
HOD & Academic
Coordinator

Ms. Shital J. Bidkar
CO-PO Coordinator

Dr. G. Y. Dama
Principal
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Date:		Page: 1

Course outcome

(2021-22)

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.


Dr. A. V. Gaikwad
Subject Teacher


HOD


Dr. Loshi S. A.
Academic Coordinator


Mrs. Bidkar S. J.
CO-PO Coordinator


Dr. Dama G.Y.
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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2021-22
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:

BP301(01) The structure, name and the type of isomerism of Organic Compounds. Clarify General methods of preparation and reaction, orientation of reactions of Benzene, phenols, amines, polynuclear Hydrocarbons.

BP301(02) Isomerism & apply that knowledge in understanding the Structure Property relationship and stability of organic Compounds

BP301(03) Account for and clarify reactivity/stability of compound ex. Cycloalkane

BP301(04) Clarify detail Chemical properties of Fats and Oil

Subject Teacher

Dr. Chiwadshetti N.S.

HOD

Dr. Gaikwad A.V.

Academic coordinator

Dr. Joshi S.A.

CO-PO Co-ordinator

Mrs. Bidkar S.J.

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Code: SPCOP/ADM/FM/	Department : Academic	Ac. Yr. : 2021-22
Rev:00	COURSE OUTCOME	Class: Second Year B. Pharm. Sem.- III
Date: 09/06/2022		Page: 1 of 1

Course number: BP302T & BP306P

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

Course outcomes:

- 3.0.2 (01) Investigate and apply various theories, laws and equations related to different states of matter
- 3.0.2 (02) Distinguish the principles of complexation/ protein binding & to use them for calculations of drug release and stability constant.
- 3.0.2 (03) Demonstrate use of physicochemical properties in the formulation development and evaluation of dosage forms.

Subject Teacher

Dr.Devhadrao N.V

HOD

Dr. Mantry S.S

Academic coordinator

Dr. Joshi S.A

CO-OP Coordinato

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Principal

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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2021-22
Rev:00	Course Outcome	Class: S. Y. B.Pharm (Sem-III)
Date:		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.


Dr. Mahajan K.C.
Subject Teacher


Dr. Mantry S.
HOD


Dr. Joshi S. A.
Academic Coordinator


Mrs. Bidkar S. J.
CO-PO Coordinator


Dr. Dama G.Y.
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Code:
SPCOP/ACD/FM/

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Ac. Yr. : 2020-21

Rev:00

Course outcome

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

Date:

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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.

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. : 2021-22
Rev:00	Course outcome	Class: -- Second Year (Sem-IV)
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Course number: BP401T

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

Course outcomes:

BP401T (01) Understand various stereo chemical aspects of organic compounds and studio chemical reaction ,Understand relevance of stereochemistry & its significance in Pharmaceutical Science

BP401T(02) Understand the methods of preparation and properties of Heterocyclic compound

BP401T (03) Understand the medicinal uses and other applications of heterocyclic Compounds

BP401T (04) Explain mechanism and applications of rearrangement reactions of electron deficient & electron rich systems..

Subject Teacher

Dr. Chiwadshetti N.S.

HOD

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Principal

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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

Mrs. A.V.
HOD

Academic Coordinator

Dr. Joshi S. A.

Mrs. Bidkar S. J.

CO-PO Coordinator



Dr. G.Y. Dama

Principal

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Code: SPCOP/ADM/FM/	Department : Academic	Ac. Yr. : 2021-22
Rev:00	COURSE OUTCOME	Class: Second Year B. Pharm. Sem.- IV
Date: 09/06/2022		Page: 1 of 1

Course number: BP403T & BP 407P

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

Course outcomes:

- 4.0.3 (01) Relate various physicochemical properties of drug and excipient molecules in designing the dosage forms
- 4.0.3 (02) Distinguish the principles of chemical kinetics & to use them for stability testing and determination of expiry date of formulations
- 4.0.3 (03) Demonstrate the behavior and mechanism of drugs and excipients in the formulation development and evaluation of dosage forms.

Subject Teacher

Dr.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

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

Code: SPCOP/ACD/FM/	Department : Academic	Ac. Yr. : 2021-22
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

Mr. Hupparage V.B.


HOD

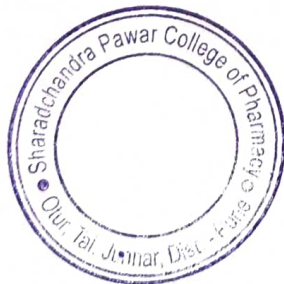
Dr. Joshi S.A.


Academic coordinator

Dr. Joshi S.A.


COPO coordinator

Mrs. Bidkar S. J.




Principal

Dr. G.Y. Dama

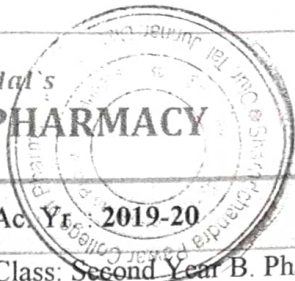
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Code: SPCOP/ADM/FM/ Rev:00	Department: Academic	Ac. Yr: 2019-20
	Course Outcome 2018 Pattern	Class: Second Year B. Pharm
		Page: 1 of 1

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

Code: SPCOP/ACD/FM/	Department : Academic	Ac. Yr. : 2021-22
Rev:00	Teaching Plan	Class: Third. Y. B. Pharm. Sem.- V
Date: 16/08/2021		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 details with Chemistry, SAR and M.O.A.

BP501(02) Know the Classification ,SAR, Mechanism of action ,synthesis of drugs acting on Cardiovascular system.

BP501(03) Study the various classes of Drugs acting on Endocrine system with chemical classification ,SAR, Mechanism of action , Adverse effects, Therapeutic uses.

BP501(04) Learn about Antidiabetics and Local Anesthetics Drugs with SAR, Chemistry, Mechanism of action ,adverse effects, Therapeutic uses .

Subject Teacher

Mr.C.P.Pulate

HOD

Mrs.Gaikwad.A.V

Academic co-ordinator

Dr.S.A.Joshi

CO-PO Co-ordinator

Mrs.S.J.Bidkar



Principal

Dr.G.Y.Dama

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Date:		Page: 1

Course number: BP502T

Title of course: INDUSTRIALPHARMACY-I (Theory) (2019 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. Elaborate on Formulation and preparation of the cosmetics.

BP502T(04) Illuminate Formulation and preparation of 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

PRINCIPAL

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Code: SPCOP/ACD/FM/	Department : Academic	Ac. Yr. : 2021-22
Rev:00	Course outcome	Class: T. Y. B. Pharm. Sem.- V
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Course number: BP503T

Title of course: Pharmacology-II (T) (2019)

Course outcomes:


1. Understand the mechanism of drug action and its relevance in the treatment of different diseases
2. Demonstrate isolation of different organs/tissues from the laboratory animals by simulated experiments
3. Demonstrate the various receptor actions using isolated tissue preparation
4. Appreciate correlation of pharmacology with related medical sciences


Subject Teacher
Miss. Gawade A.S.


HOD
Dr. Joshi S.A.


Academic coordinator
Dr. Joshi S.A.

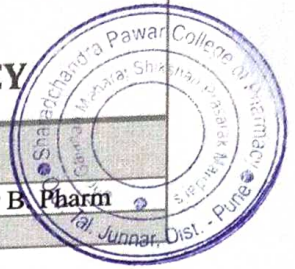

COPO coordinator
Mrs. Bidkar S. J.


Principal
Dr. G.Y. Dama
PRINCIPAL
Sharadchandra Pawar College of Pharmacy
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Code: SPCOP/ADM/FM/ Rev:00	Department: Academic	Ac. Yr. : 2020-21
	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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Code: SPCOP/ADM/FM/	Department : Academic	Ac. Yr. : 2021-22
Rev:00	COURSE OUTCOME	Class: Third Year B. Pharm.
Date: 09/06/2022		Sem.- V
		Page: 1 of 1

Course number: BP505T

Title of course: PHARMACEUTICAL JURISPRUDENCE (Theory) 2019 patt

Course outcomes:

- 5.0.5 (01) The Pharmaceutical legislations and their implications in the development and marketing of pharmaceuticals.
- 5.0.5 (02) Various Indian pharmaceutical Acts and Laws.
- 5.0.5 (03) the regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals.
- 5.0.5 (04) The code of ethics during the pharmaceutical practice

Subject Teacher

Dr.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

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Code: SPCOP/ACD/FM/

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Teaching Plan

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

Date: 02/01/2022

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 in details with Chemistry, SAR and M.O.A.

BP601(02) Know the Classification, SAR, Mechanism of action, synthesis of Antimalarials 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 Drug Design.

Subject Teacher

Mr.C.P.Pulate

HOD

Dr.A.V.Gaikwad

Academic coordinator

Dr.S.A.Joshi

CO-PO Coordinator

Mrs.S.J.Bidkar

Principal

Dr.G.Y.Dama
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Code: SPCOP/ACD/FM/	Department : Academic	Ac. Yr. : 2021-22
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) (2019)

Course outcomes:


- CO 1. Students would have studied elaborately on mechanism of drug action and its relevance in the treatment of digestive & urinary diseases or disorders.
- CO 2. Comprehend the chemotherapy of different infectious diseases.
- CO 3. Understand the chemotherapy of antibiotics & understand the term chronopharmacotherapy.
- CO 4. Elaborate different methods of toxicity studies & studied about symptoms of several poisoning & understood the toxicity profile of each drug


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
PRINCIPAL
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Code: SPCOP/ADM/FM/	Department : Academic	Ac. Yr. : 2021-22
Rev:00	COURSE OUTCOME	Class: Final Year B. Pharm. Sem.- VI
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Course number: 6.0.4

Title of course: BIO-PHARMACEUTICS & PHARMACOKINETICS (Theory) (2019 Pattern)

Course outcomes:

- 6.0.4 (01) Understand the basic concept in biopharmaceutics & pharmacokinetics & their significance.
- 6.0.4 (02) Use of plasma drug concentration-time data to calculate the pharmacokinetic parameter to describes the kinetics of drug absorption, distribution, metabolism, excretion, elimination.
- 6.0.4 (03) To understand the concept of bioavailability & bioequivalence of drug products & their significance.
- 6.0.4 (04) Understand various pharmacokinetic parameter, their significance & application.

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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Course outcome

Course number: BP 605 T

Title of course: Pharmaceutical Biotechnology (T) (2019 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

Dr. Mahajan K.C.
Subject Teacher

Dr. Mantry S.
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/ADM/FM/	Department : Academics	Ac. Yr. : 2021-22
Rev:00	Course Outcome	Class: T. Y. B.Pharm (Sem-VI)
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Course number: BP606T

Title of course: Pharmaceutical Quality Assurance (Theory) (2019 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

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

Course number: BP606T

Title of course: Pharmaceutical Quality Assurance (Theory) (2019 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) Illustrate 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

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Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2021-22
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Date:		Page: 1

Course outcome

2021 - 2022

Course number: BP701T

Title of course: Instrumental Methods of Analysis (T) (2019 Pattern)

Course outcomes:

BP701T (01) Impart a fundamental knowledge on the principles and instrumentation of spectroscopic technique in UV Visible spectroscopy, Fluorimetry, FTIR spectroscopy.

BP701T (02) Learn about methods for performing quantitative & qualitative analysis of drugs using various analytical instruments like Flame Photometry. Atomic absorption spectroscopy. Nepheloturbidimetry.

BP701T (03) Classify the chromatographic separation methods and choose appropriate technique for analysis of drugs column chromatography, Paper chromatography, Thin layer chromatography, HPTLC, Gas chromatography, HPLC .

BP701T (04) Know the separation analytical technique with their Principle, instrumentation, Applications of Ion exchange chromatography, Gel chromatography, Affinity chromatography.


Dr. 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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Dumbarwadi (Otur), Tal. Junnar, Dist. - Pune



Shri Gajanan Maharaj Shikshan Prasarak Mandals

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DUMBARWADI (OTUR), TAL.: JUNNAR, DIST.: PUNE - 412405




Code: SPCOP/ADM/FM/ Rev: 00 Date: 16 Dec 2022	Department: Academics Course Outcome	Ac. Yr.: 2021-22 Class: Fin. Yr. B. Pharm (Sem-VII) Page: 1
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Course number: BP702T


Title of course: INDUSTRIAL PHARMACY -II (Theory) (2018 Pattern)


Course outcomes:

- BP702T (01) Know the process of pilot plant and scale up of pharmaceutical dosage forms.
- BP702T (02) Understand the process of technology transfer from lab scale to commercial batch.
- BP702T (03) Know different Laws and Acts that regulate pharmaceutical industry.
- BP702T (04) Understand the approval process and regulatory requirements for drug products.


Ms. Vaishali A. Adsare
Subject Teacher


Dr. Sumit A. Joshi
HOD & Academic
Coordinator


Ms. Shital J. Bidkar
CO-PO Coordinator


Dr. G. Y. Dama
Principal

PRINCIPAL
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Code: SPCOP/ADM/FM/

Department: Academic

Ac. Yr. : 2021-22

Rev:00

Course Outcome 2019 Pattern

Class: Final Year B. Pharm

Date:- 08/08/2022

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Course Number: BP703T

Title of course: Pharmacy Practice (Theory) 2019 pattern


Course outcomes:

BP703T(01): To Understand the various drug distribution methods in a hospital and Appreciate the pharmacy stores management and inventory control.

BP703T(02): Monitor drug therapy of patient through medication chart review and clinical review. Obtain medication history interview and counsel the patients.

BP703T(03): Identify drug related problems Detect and assess adverse drug reactions Interpret selected laboratory results of specific disease states Know pharmaceutical care services.

BP703T(04): Do patient counseling in community pharmacy; Appreciate the concept of rational drug therapy.


Subject-Teacher


HOD


Academic
In-charge


CO-PO
Coordinator


Principal



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Code: SPCOP/ADM/FM/	Department : Academic	Ac. Yr. : 2021-22
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Course number: 7.0.4

Title of course: NOVEL DRUG DELIVERY SYSTEM (THEORY) (2019 Pattern)

Course outcomes:

7.0.4 (01) To understand the various approaches to development of novel drug delivery system.

7.0.4 (02) To understand the criteria for selection of drug & polymer for the development of Novel drug delivery system, their formulation & evaluation.

7.0.4 (03) To understand the basic knowledge on the area of novel drug delivery system & their uses.

Subject Teacher
Dr. Shubhrajit Mantry

HOD
Dr. Shubhrajit Mantry

Academic coordinator
Dr. Sumit A. Joshi

Co-PS coordinator
Mrs. Sheetal J. Bidkar

PRINCIPAL
Dr. G. Y. Datta
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Rev :00	COURSE OUTCOME	Class: Final Year B. Pharm. Sem - VIII
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Course number: 8.0.1

Title of course: **BIO-STATISTICS & RESEARCH METHODOLOGY (Theory) (2019 Pattern)**

Course outcomes:

8.0.1 (01) Know the operation of M.S. Excel, SPSS, R and MINITAB®, DoE (Design of Experiment).

8.0.1 (02) Know the various statistical techniques to solve statistical problems.

8.0.1 (03) Appreciate statistical techniques in solving the problems.

8.0.1 (04) To understand the applications of Biostatistics in Pharmacy. This subject deals with descriptive statistics, Regression, logistic regression Probability theory, Sampling technique, Parametric tests, Non Parametric tests, ANOVA, Introduction to Design of Experiments, Phases of Clinical trials, SPSS.

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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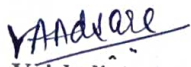
Code: SPCOP/ADM/FM/ Rev: 00	Department: Academics	Ac. Yr.: 2021-22
Date: 14 Dec 2022	Course Outcome	Class: Fin. Yr. B. Pharm (Sem-VIII)
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Course number: BP 802T


Title of course: SOCIAL AND PREVENTIVE PHARMACY (Theory) (2018 Pattern)

Course outcomes:

- BP 802T (01) Acquire high consciousness/realization of current issues related to health and pharmaceutical problems within the country and worldwide.
- BP 802T (02) Develop a critical way of thinking based on current healthcare development.
- BP 802T (03) Evaluate alternative ways of solving problems related to health and pharmaceutical issues.
- BP 802T (04) Introduction to National healthcare development programmes.


Ms. Vaishali A. Adsare
Subject Teacher


Dr. Sumit A. Joshi
HOD & Academic
Coordinator


Ms. Shital J. Bidkar
CO-PO Coordinator


Dr. G. Y. Dama
Principal

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Dumbarwadi (Otur), Tal. Junnar, Dist. - Pune



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Code: SPCOP/ADM/FM/	Department: Academic	Ac. Yr. : 2021-22
Rev:00	Course Outcome 2018 Pattern	Class: Final Year B. Pharm
Date:- 18/08/2021		Page: 1 of 1

Course Number: BP805ET

Title of course: Pharmacovigilance (Theory) 2018 pattern

Course Outcomes (COs): BP805ET

BP805ET (01): At completion of this paper students will be able to know, do, and appreciate:


Understand importance of drug safety monitoring.

BP805ET (021): Explain History, development, National and international scenario of & comprehend dictionaries, coding and terminologies & ADR Detection, Assessment & Reporting.

BP805ET (03): Pharmacovigilance Program of India (PvPI) ICH guidelines for ICSR, PSUR, expedited reporting, Pv planning. CIOMS for ADR reporting

BP805ET (04) Comprehend methods of safety data during pre-clinical, clinical and post approval phases of drugs' lifecycle. Write case narratives of adverse events and their quality.

Subject Teacher


(D. Jashis A.)

HOD



Academic Coordinator



CO-PO Coordinator



Principal





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Dumberwadi (Otur), Tal. Junnar, Dist. - Pune



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Date:		Page: 1

Course number: BP806ET

Title of course: Quality Control And Standardization of Herbals (Theory) (2018 Pattern)

Course outcomes:

BP806ET (01) Understand WHO guidelines for quality control of herbal drugs

BP806ET (02) Describe Quality assurance in herbal drug industry of cGMP, GAP, GMP and GLP in traditional system of medicine.

BP806ET (03) Illustrate EU and ICH guidelines for quality control of herbal drugs.

BP806ET (04) Illuminate Stability testing of herbal medicines & Regulatory requirements for herbal medicines.

Subject Teacher

Dr. J. S. Bidkar

HOD

Dr. J. S. Bidkar

Academic coordinator

Dr. Joshi S.A.

CO-PO Co-ordinator

Prof. S.J. Bidkar



Principal

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Course number: BP809ET

Title of course: COSMETIC SCIENCE (Theory) 2018 patt

Course outcomes:

- 8.0.9 (01) To Understand the concepts of cosmetics; anatomy of skin v/s hair, general excipients
Used in cosmetics.
- 8.0.9 (02) explain the concept of cosmeceuticals, history, and difference between cosmetics &
cosmeceuticals& cosmeceuticals agents.
- 8.0.9 (03) Know different Laws and Acts that regulate pharmaceutical industry
- 8.0.9 (04) understand the approval process and regulatory requirements for drug products

Subject Teacher

Dr.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

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Course number: **BP810ET**

Title of course: **Experimental Pharmacology (Theory) (2018 Pattern)**


Course outcomes:


BP810ET (01) Understand CPCSEA and OECD guidelines for maintenance, breeding and conduct of experiments on laboratory animals, Common lab animals

BP810ET (02) Describe the various screening methods used in preclinical research

BP810ET (03) Illustrate Preclinical screening models: for ANS activity, sympathomimetics, sympatholytics, parasymphomimetics, parasympholytics, skeletal muscle relaxants, drugs acting on eye, local anaesthetics

BP810ET (04) Illuminate Preclinical screening models: for CVS activity- antihypertensives, diuretics, antiarrhythmic, antidyslipidemic, anti aggregatory, coagulants, and anticoagulants & Research methodology and Bio-statistics.


Subject Teacher
Dr. Joshi S.A.


HOD
Dr. Joshi S.A.


Academic coordinator
Dr. Joshi S.A.


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




Principal

Dr. G. Y. Dama

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Shri Gajanan Maharaj Shikshan Prasarak Mandal's
SHARADCHANDRA PAWAR COLLEGE OF PHARMACY
DUMBARWADI. (OTUR), TAL : JUNNAR, DIST : PUNE. 412409.



Code: SPCOP/ADM/FM/	Department : Academics	Ac. Yr. : 2021-2022
Rev:00	Course Outcome	Class: Final Yr. B.Pharm (Sem-VIII)
Date:		Page: 1

Course outcome

2021 - 2022

Course number: BP811ET

Title of course: Advanced Instrumentation Techniques {T} (2019 Pattern)


Course outcomes:

BP811ET (01) This subject is designed to impart advanced knowledge on the principles and instrumentation and justify its applications of spectroscopic techniques in Nuclear Magnetic Resonance spectroscopy, Mass Spectrometry

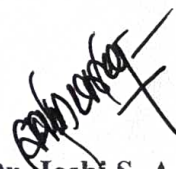
BP811ET (02) : Express the principle of the advanced instruments used in drug analysis and its application in Thermal Methods of Analysis, Electrophoresis, X-Ray Diffraction Methods, Radioimmune assay, Extraction techniques

BP811ET (03) Design methods for performing quantitative & qualitative analysis of drugs using various chromatographic and hyphenated techniques like Details of LC-MS, GC-MS, HPTLC-MS, MS/MS.


BP811ET (04) Explain the importance and methods for the calibration of various analytical instruments.


Mrs. A. V. Gaikwad.
Subject Teacher


HOD


Dr. Joshi S. A.
Academic Coordinator


Mrs. Bidkar S. J.
CO-PO Coordinator


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