ज्ञानम् जीवनस्य भूषणम्

YSPM

NAAC- B+

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes (2023-24)

Name of the course: Pharmaceutical Organic Chemistry-III **Course Code: BP401T**

Semester: IV **Class: S. Y. B. Pharm**

After completion of course students will be able to

CO	Course Outcomes
BP401TC01	Summaries the stereo chemical aspects of optical isomer
BP401TC02	Illustrate the stereo chemical aspects of geometric and confirmational isomer
BP401TC03	Elaborate five membered hetero-cyclic compound with structure, synthesis, physicochemical properties and medicinal uses
BP401TC04	Discuss six membered hetero-cyclic compound with structure, synthesis, physicochemical properties reactions and medicinal uses
BP401TC05	Describe detailed mechanism of common naming reactions

CO-PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP401TC01	3	1	2	3	1	1	2	1	1	2	3
BP401TC02	3	1	2	3	1	1	2	1	1	2	3
BP401TC03	3	2	3	2	1	1	2	2	2	2	3
BP401TC04	3	2	3	2	1	1	2	2	2	1	3
BP401TC05	3	2	3	3	1	2	3	3	2	2	3
Average	**3**	**2**	**3**	**3**	**1**	**1**	**2**	**2**	**2**	**2**	**3**

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Bangare

Course co-ordinator

Mrs. Bhongale P. A.

HOD

Dr. Bhagwat A. M.

Principal

Dr. Redasani V. K.

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

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Course outcomes

Name of the course: Medicinal Chemistry I **Course Code: BP402T**

Semester: IV **Class: S.Y.B.Pharm**

After completion of course students will be able to

CO	Course Outcomes
BP402TC01	Explain development of medicinal chemistry, physicochemical properties & metabolism of drugs.
BP402TC02	Describe physicochemical & pharmacological properties of drugs in class adrenergic system.
BP402TC03	Summarize physicochemical & pharmacological properties of drugs in class Cholinergic system.
BP402TC04	Understand physicochemical & pharmacological properties of drugs acting as Sedatives and Hypnotics,Antipsychotics & Anticonvulsants.
BP402TC05	Integrate drugs acting as general anesthetics,analgesics & antiinflametory agents.

CO-PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP402TCO1	3	2	1	2	1	2	1	1	3	1	3
BP402TCO2	3	2	1	2	1	2	1	1	3	1	3
BP402TCO3	3	2	1	2	1	2	1	1	3	1	3
BP402TCO4	3	2	1	2	1	2	1	1	3	1	3
BP402TCO5	3	2	1	2	1	2	1	1	3	1	3
Average	3	2	1	2	1	2	1	1	3	1	3
Average Roundup	3	2	1	2	1	2	1	1	3	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Ms. Devale R.P.

Course co-ordinator

Dr. Bhagwat A.M.

HOD

Dr. Redasani V.K.

Principal

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

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Course outcomes

Name of the course: B. Pharmacy **Course Code: BP403T**

Semester: IV **Class: S.Y. B.Pharm**

After completion of course students will be able to

CO	Course Outcomes
BP403TC01	Discuss the various Physicochemical properties of drug molecules in designing the dosage form.
BP403TC02	Demonstrate concept of rheology to determine the viscosity of fluids.
BP403TC03	Procure the knowledge of dispersed systems with their stability issues.
BP403TC04	Discuss the micromeritic properties with its significance.
BP403TC05	Explain the principles of chemical kinetics with its utilization in drug stability study.

CO-PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP403TCO1	3	2	1	3	3	2	1	2	1	1	3
BP403TCO2	3	2	2	2	2	2	1	2	1	2	3
BP403TCO3	3	2	2	2	2	2	1	2	1	2	3
BP403TCO4	3	1	1	3	3	2	1	2	1	1	3
BP403TCO5	3	1	1	2	2	2	1	2	1	2	3
Average	3	1.6	1.4	2.4	2.4	2	1	2	1	1.6	3
Average Roundup	3	2	1.4	2.4	2.4	2	1	2	1	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

(Ms. Priya. Sutale).
(Name &Sign)
Course co-ordinator

(Name & Sign)
Dr. P.D. Jadhav.
HOD

(Name & Sign)
Dr. V.K. Redasani
Principal

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Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501
Course outcomes

Name of the course: Pharmacology I **Course Code: BP404T**

Semester: IV **Class: S.Y.B.Pharm**

After completion of course students will be able to

CO	Course Outcomes
BP404T C01	Summerize the fundamental concepts of pharmacology,route of drug administration and pharmacokinetics.
BP404T C02	Understand the basics of pharmacodynamics, adverse reactions, drug interactions and drug discovery
BP404T C03	Identify the role of neurohumoral transmission and drugs acting on peripheral nervous system
BP404T C04	Analyze the functions of neurotransmitters and drugs acting on central nervous system
BP404T C05	Appraise the pharmacology of Psychopharmacological agents and to evaluate the effects of drugs against neurodegenerative disorders and to elaborate the concepts of drug addiction/abuse/tolerance/ dependence

CO-PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP404T C01	3	2	1	2	1	3	2	2	3	1	3
BP404T C02	3	1	1	1	1	3	3	1	3	1	3
BP404T C03	3	1	1	1	1	3	3	2	1	1	3
BP404T C04	3	1	1	1	1	3	3	2	1	1	3
BP404T C05	3	1	1	1	1	3	3	2	1	1	3
Average	3	1.2	1	1.2	1	3	2.8	1.8	1.8	1	3
Average Roundup	3	1	1	1	1	3	3	2	2	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator (Prof. R. P. Bhoite)

HOD (Dr. L. M. Purane)

Principal (Dr. V. K. Redasani)

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Course outcomes

Name of the course: Pharmacognosy-I **Course Code: BP405T**

Semester: IV **Class: Second Year B.Phar**

CO	Course Outcomes
BP405TC01	Explain meaning & significance of Pharmacognostic parameters & Pharmacognostic study of crude drugs, Techniques in the cultivation, evaluation of herbal drugs .
BP405TC02	Comprehend & explain plant metabolites comprehensively, their functions in plant, comparative account of primary & secondary metabolism, Role of secondary metabolites and tissue culture in plants
BP405TC03	Comprehend & explain **primary metabolites** comprehensively from source to their Pharmaceutical & industrial applications. In relation with primary metabolites, learner should be able to define, classify, explain source, name & draw chemical structures, identify from the structure, organize the biosynthetic sequence & describe methods of extraction
BP405TC04	Comprehend & explain underlying reason of evolutionary significance of **secondary metabolites** production in plants & other organisms & deduce their significance as medicinal molecules. Learner should be able to explain evolution of Phytochemistry to current phase
BP405TC05	Define, classify, explain source, name & draw chemical structures, identify from the structure, organize the biosynthetic sequence, and describe methods of extraction & underlying rationale of qualitative & quantitative analysis of **Carbohydrates, proteins, lipids** compounds of plant origin & document observations, results & interpretations properly.

CO-PO mapping

	PO1	PO2	PO3	PO4	PO 5	PO 6	PO 7	PO 8	PO9	PO10	PO11
Code											
BP405TCO1	3	1	2	1	1	2	2	2	1	1	3
BP405TCO2	3	2	2	1	1	2	2	2	2	2	3
BP405TCO3	3	3	2	1	1	2	2	2	2	1	3
BP405TCO4	3	2	2	1	1	2	2	2	2	1	3
BP405TCO5	3	2	2	1	1	2	2	2	2	1	3
Average	**3**	**2**	**2**	**1**	**1**	**2**	**2**	**2**	**2**	**1**	**3**
Average Roundup	**3**	**2**	**2**	**1**	**1**	**2**	**2**	**2**	**2**	**1**	**3**

Correlation level 1,2,3 as defined below 1-Slight 2- Moderate 3 High

Course co-ordinator **HOD** **Principal**

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

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Course Outcomes

Name of the course: Medicinal Chemistry-I **Course Code:** BP406P

Semester: IV **Class:** II B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP406PC01	Understand and synthesize drugs/intermediates
BP406PC02	Understand and analyze drugs
BP406PC03	Understand and perform partition coefficient experiments

CO-PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP406PCO1	3	3	3	1	1	2	1	1	1	-	2
BP406PCO2	3	3	3	2	1	2	1	1	1	1	2
BP406PCO3	3	3	3	1	1	2	1	1	1	1	2
Average	**3**	**3**	**3**	**1**	**1**	**2**	**1**	**1**	**1**	**1**	**2**

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Sandhya P. Kadam
Course co-ordinator

HOD

Principal

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

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Course outcomes

Name of the course: B. Pharmacy **Course Code: BP407P**

Semester: IV **Class: S.Y. B.Pharm**

After completion of course students will be able to

CO	Course Outcomes
BP407PC01	Discuss various physico-chemical properties of drug molecules in the designing the dosage form.
BP407PC02	Analyze the principles of chemical kinetics and to use them for stability testing and determination of expiry date of formulations.
BP407PC03	Demonstrate use of physico-chemical properties in the formulation development and evaluation of dosage form.

CO- PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP407PCO1	3	3	2	3	3	2	1	3	2	2	3
BP407PCO2	3	3	2	2	3	2	2	3	2	2	3
BP407PCO3	3	3	2	3	3	2	1	3	2	2	3
Average	3	3	2	3	3	2	1	3	1	2	3
Average Roundup	3	3	2	3	3	2	1	3	2	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

(Ms. Priyas Shinde)
(Name &Sign)
Course co-ordinator

(Name &Sign)
Dr. P.D Jadhav.
HOD

(Name &Sign)
Dr. V.K. Redasani.
Principal

Yashoda Shikshan Prasarak Mandal's

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Faculty of Pharmacy Wadhe, NH-4, Satara

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Course outcomes

Name of the course: Pharmacology I **Course Code: BP408P**

Semester: IV **Class: S.Y.B.Pharm**

After completion of course students will be able to

CO BP408P	Course Outcomes
BP408PCO1	Understand basic instruments, common laboratory animals and to maintain laboratory animals as per the CPCSEA guidelines
BP408PCO2	Demonstrate the common laboratory techniques like routes of administration , blood withdrawal, anesthetics and euthanasia used for animal studies
BP408PCO3	Iinterpret the effects of various drugs on rabbit eye, on ciliary motility of frog oesophagus,on skeletal muscles of rats and to study locomotor activity,anticonvulsant activity,anti-catatonic activity,anxiolytic activity and local anaesthetic action by different methods.

CO-PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP408PCO1	3	3	3	2	1	2	3	1	3	1	3
BP408PCO2	3	1	1	3	1	1	3	1	3	1	3
BP408PCO3	3	1	1	2	2	2	2	1	2	1	3
Average	3	1.66	1.66	2.3	1.33	1.66	2.66	1	2.66	1	3
Average Roundup	3	2	2	2	1	2	3	1	3	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator
(Mr. A.P. Jadhav)

HOD

Principal

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Yashoda Technical Campus,

Faculty of Pharmacy Wadhe, NH-4, Satara – 415001

Course outcomes

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Name of the course: P'cog-I **Course Code: BP409P**

Semester: IV **Class: Second Year B.Pharm**

After completion of course students will be able to

BP409PCO	Course Outcomes
BP409PC01	Analyze crude drug using different chemical tests.
BP409PC02	Determine different leaf constants with their significance.
BP409PC03	Execute the microscopic and morphological evaluation techniques for the of crude drugs.
BP409PC04	Perform evaluation techniques for the crude drugs.

CO-PO mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BP409P											
BP409PCO1	3	2	1	2	3	2	1	3	1	1	2
BP409PCO2	3	3	2	3	3	1	1	1	1	1	1
BP409PCO3	3	3	3	3	3	2	1	2	2	2	1
BP409PCO4	3	3	3	3	3	1	1	2	1	1	1
Average	3	2.75	2.25	2.75	3	1.5	1	2	1.25	1.25	1.25
Average Roundup	3	3	3	3	3	2	1	2	2	2	2

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator
Mr. P. R. Joshi

HOD
Mrs. J. S. Pingle

PRINCIPAL
Dr. V. K. Redasani