



YSPM'S, Yashoda Technical Campus, Faculty of Pharmacy, Satara

VISION

To provide finest and growing environment of teaching, learning and research for the overall development of the students for the betterment of society.

MISSION

- M 1** To provide quality education and facilities to the students for their holistic development.
- M 2** To prepare skilled pharmacists with intellectual and ethical development to cater the society.
- M 3** To become a center of excellence for professional workforce to heighten the industry and academics.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PEO1** To develop an aptitude amongst the students to understand the basic aspects of pharmacy.
- PEO2** To build skills and knowledge required for handling and understanding of laboratory equipments.
- PEO3** To apply the knowledge of student in pharma sector.
- PEO4** To generate sensibility amongst the graduating students towards their social responsibilities as a pharmacist.
- PEO5** To accomplish holistic development of the students.

Program Outcomes

PO 1. Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.
PO 2. Planning Abilities: Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.
PO3.Problem analysis: Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyze, evaluate and apply information systematically and shall make defensible decisions.
PO4.Modern tool usage: Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
PO5.Leadership skills: Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfillment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.
PO6. Professional Identity: Understand, analyze and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).
PO7. Pharmaceutical Ethics: Honor personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.
PO8. Communication: Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.
PO9. The Pharmacist and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.
PO10.Environment and sustainability: Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO11. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.



NAAC- B⁺

Name of the course: HAP-I

Semester: I

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

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

Course outcomes

Course Code: BP101T

Class: I B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP101TC01	Explain gross morphology, anatomy & physiology of various organs & systems of human body their structural organization, life processes, homeostasis, anatomical terminologies and also cellular & tissue level of organization.
BP101TC02	Analyze the importance of integumentary and skeletal system along with their structure & function and also skeletal muscle organization, muscle contraction, neuromuscular junction and joints.
BP101TC03	Appraise the importance of lymphatic & reticulo endothelial system along with body fluids, hemopoiesis, hematology & blood group systems.
BP101TC04	Understand anatomy & physiology of peripheral nervous system, origin and function of spinal & cranial nerves and also special senses and their disorders.
BP101TC05	Explain components, structure & function of cardiovascular system and also conduction system of heart, cardiac cycle, electrocardiogram & disorders of heart.

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											
BP101TC01	3	1	2	2	1	2	1	2	2	1	3
BP101TC02	3	1	2	2	1	1	1	1	2	1	3
BP101TC03	3	1	2	2	1	2	1	1	2	1	3
BP101TC04	3	1	2	2	1	2	1	1	2	1	3
BP101TC05	3	1	2	2	1	2	1	2	2	1	3
Average	3	1	2	2	1	1.8	1	1.4	2	1	3
Average Roundup	3	1	2	2	1	2	1	1	2	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Kadamb

Course co-ordinator

Ms. P. B. Kadamb

[Signature]
HOD

[Signature]
Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara - 41501

Course outcomes

Name of the course: Pharmaceutical Analysis-I

Course Code:BP102T

Semester:I

Class: First Year B.Pharm

After completion of course students will be able to


CO	Course Outcomes
BP102TCO1	Explain fundamentals of pharmaceutical analysis and basic concepts involved in errors impurities and methods to determine the impurities
BP102TCO2	Understand and explain Acid Base titration and non aqueous titration.
BP102TCO3	Understand and explain complexometric titration, precipitation titrations, gravimetric analysis etc
BP102TCO4	Understand and elaborate redox titration.
BP102TCO5	Explain Potentiometry, Conductometry and Polarography analytical technique

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											
BP102TCO1	3	3	3	-	1	3	3	2	3	1	3
BP102TCO2	3	3	3	2	1	3	3	2	3	1	3
BP102TCO3	3	3	3	2	1	3	3	2	3	1	3
BP102TCO4	3	3	3	2	1	3	3	2	3	1	3
BP102TCO5	3	3	3	2	1	3	3	2	3	1	3
Average	3	3	3	2	1	3	3	2	3	1	3
Average Roundup	3	3	3	2	1	3	3	2	3	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Course co-ordinator
CS.H. Rohane


HOD


Principal

Course outcomes (2023-24)

Name of the course: Pharmaceutics I

Course Code: BP103T

Semester: I

Class: F.Y.B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP103TC01	Explain the history of profession of pharmacy and describe the basic knowledge of dosage form, Prescription and posology.
BP103TC02	Solve the problems of pharmaceutical calculations and explain powders, liquid dosage form.
BP103TC03	Compare monophasic and biphasic liquid dosage form
BP103TC04	Summarize preparation and evaluation of suppositories and elaborate the concept of pharmaceutical incompatibilities
BP103TC05	Discuss the semisolid 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											
BP103TC01	3	3	3	1	2	3	3	3	3	3	2
BP103TC02	3	2	3	2	1	1	2	2	2	1	2
BP103TC03	3	3	2	1	1	1	2	2	2	2	2
BP103TC04	3	2	2	3	1	2	2	2	3	3	2
BP103TC05	3	3	2	3	1	3	2	2	3	3	2
Average	3	3	2	1	1	2	2	2	2	3	2

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

(MS. N.D. Nair)
(Name & Sign)

Course co-ordinator

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

(Dr. Y.K. Keshavn)
(Name & Sign)
Dr. Y.K. Keshavn
Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Pharmaceutical Inorganic Chemistry

Course Code: BP104T

Semester: I

Class: --I B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP104TC01	Understand official standard books like Pharmacopoeias and understand the sources of impurities and methods to determine the impurities in inorganic drugs and pharmaceuticals with the principles of limit tests.
BP104TC02	Explain the medicinal and pharmaceutical importance of inorganic compounds like acids, bases, buffers, different electrolytes and dental products.
BP104TC03	Describe different classes of inorganic pharmaceuticals with its uses and properties like gastrointestinal agents.
BP104TC04	Clarify properties and methods of preparation of inorganic compounds like expectorant, emetics and astringents etc.
BP104TC05	Elucidate the medicinal and pharmaceutical importance of inorganic compounds like radio pharmaceuticals in preventing and curing the disease and disorders.

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											
BP104TC01	3	3	2	2	2	3	3	3	3	3	3
BP104TC02	3	2	3	3	1	2	3	2	3	3	2
BP104TC03	3	2	1	-	-	1	2	-	2	2	3
BP104TC04	3	2	3	3	1	3	3	3	3	3	2
BP104TC05	3	2	3	2	-	2	3	2	2	2	3
Average	3	2.2	2.4	2.5	1.333	2.2	2.8	2.5	2.6	2.6	2.6
Average Roundup	3	2	2	3	1	2	3	3	3	3	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Course co-ordinator
Dr. B. V. Choware


HOD


Principal

Name of the course: Communication Skills.

Course Code: BP105T

Semester: I

Class: F.Y B.Pharm

After completion of course students will be able to


CO	Course Outcomes
BP105TC01	Define communication .Explain importance, barriers and perspectives in communication.
BP105TC02	Enlist elements of communication with communication style
BP105TC03	Elaborate listening as well as effective writing communication skills.
BP105TC04	Discribe do's and don't's in interview and presentation.
BP105TC05	Discuss communication skill in group discussion with do's and don'ts.

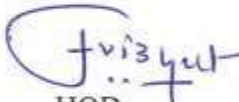
CO-PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
BP105T											
BP105TCO1	1	1	3	1	1	1	1	3	3	1	3
BP105TCO2	1	1	1	1	1	1	1	2	2	1	3
BP105TCO3	2	3	2	2	3	2	1	3	3	1	3
BP105TCO4	1	3	2	2	3	2	1	3	1	1	2
BP105TCO5	1	3	3	3	3	2	1	3	1	1	3
Average	2	3	2.2	2.3	2.2	2	1	2.8	2.6	1	2.8
Average Roundup	2	3	2	2	2	2	1	3	3	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


 Course co-ordinator
 Mr. P. R. Joshi


 HOD
 Dr. A.M. Bhagwat


 Principal
 Dr. V. K. Redasani



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Remedial Mathematics

Course Code: BP106RMT

Semester: I

Class: F.Y.B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP106RMT C01	Apply both conventional and creative techniques to the solutions of mathematical problems of Partial fraction, logarithms, function and limits and continuity.
BP106RMT C02	Solve problems of matrices and determinant, Application of Matrices in solving Pharmacokinetic equations.
BP106RMT C03	Solve problems of calculus and its Applications.
BP106RMT C04	Understand the mathematics comprises a Analytical Geometry, Streight line and integration.
BP106RMT C05	Apply range of mathematical techniques effectively to solve problems including Differential Equations, Laplace Transform and its application in solving Chemical kinetics and Pharmacokinetics equations

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											
BP106RMT CO1	3	2	3	2	2	2	1	3	2	2	3
BP106RMT CO2	3	2	3	2	2	2	1	3	2	2	3
BP106RMT CO3	3	2	3	2	2	2	1	3	2	2	3
BP106RMT CO4	3	2	3	2	2	2	1	3	2	2	3
BP106RMT CO5	3	2	3	2	2	2	1	3	2	2	3
Average	3	2	3	2	2	2	1	3	2	2	3
Average Roundup	3	2	3	2	2	2	1	3	2	2	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 Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara - 41501

Course outcomes

Name of the course: Human anatomy and physiology-I

Course Code: BP107P

Semester: I

Class: FY B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP107PC01	Study compound microscope. Microscopic study of various tissues of human body. Identification of bones.
BP107PC02	Study various physiological instruments used for estimation of hematological tests. Examine bleeding time, clotting.
BP107PC03	Recording of blood pressure, heart rate and pulse rate.

CO-PO mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Code											
BP107PC01	2	-	3	1	1	1	2	2	1	-	3
BP107PC02	3	-	2	1	1	2	2	2	1	1	3
BP107PC03	2	-	1	1	1	1	2	2	1	-	3
Average	2.33	-	2	1	1	1.33	-	1.66	1	-	3
Roundup	2	-	2	1	1	1	2	2	1	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator

HOD

Principal
(Dr. V. K. Redekar)



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Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Pharmaceutical Analysis-I

Course Code:BP108P

Semester:I

Class: First Year B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP108PCO1	Demonstrate steps involved in identification of unknown organic compound.
BP108PCO2	Prepare suitable solid derivatives from organic compounds
BP108PCO3	Draw structure using molecular model concept

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											
BP102TCO1	3	-	3	-	-	3	3	-	-	2	3
BP102TCO2	3	3	3	-	3	3	3	2	1	2	3
BP102TCO3	3	3	3	2	3	3	3	2	1	2	3
Average	3	3	3	2	3	3	3	2	1	2	3
Average Roundup	3	3	3	2	3	3	3	2	1	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Course co-ordinator
(S. H. Rohane)


HOD


Principal



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Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes (2023-24)

Name of the course: Pharmaceutics-I

Course Code: BP109P

Semester: I

Class: F.Y B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP109PC01	Describe use of ingredients in formulation and category of formulation
BP109PC02	Preapre and evaluate aromatic water,suppositories, syrups, elixers and powder preparations
BP109PC03	Distinguish monophasic and biphasic liquid dosage form
BP109PC04	Formulate the semisolid 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											
BP109PC01	3	3	2	2	2	2	2	3	3	3	2
BP109PC02	3	3	1	2	2	2	2	3	3	2	2
BP109PC03	3	3	2	2	2	2	2	3	3	2	2
BP109PC04	3	3	2	3	1	2	2	2	3	2	2
Average	3	3	2	2	2	2	2	3	3	2	2
Average Roundup	3	3	2	2	2	2	2	3	3	2	2

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

(Name & Sign)

Ms. P. R. Joghri
Course co-ordinator

(Name & Sign)

CPD P. D. Talwar
HOD

(Name & Sign)

Dr. V. K. Redkar
Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Pharmaceutical Inorganic Chemistry

Course Code: BP110P

Semester: I

Class: --I B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP110PC01	Identify impurities in inorganic compounds by performing limit test for the inorganic impurities
BP110PC02	Examine purity of inorganic compounds as per the official books and prepare inorganic compounds having medicinal use
BP110PC03	Analyze different anions, cations from unknown inorganic compound.

CO-PO mapping

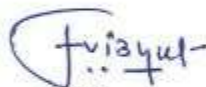
	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP110PCO1	3	3	2	2	3	3	3	3	3	2	2
BP110PCO2	3	3	3	3	2	2	3	2	3	2	3
BP110PCO3	3	3	3	3	2	3	2	2	2	2	2
Average	3	3	2.66	2.66	2.33	2.66	2.66	2.33	2.666	2	2.33
Average Roundup	3	3	3	3	2	3	3	2	3	2	2

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator

Dr. B. V. Chavare


HOD


Principal

Name of the course: Communication Skills.

Course Code: BP111P

Semester: I

Class: F.Y B.Pharm

After completion of course students will be able to

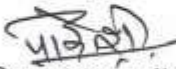
CO	Course Outcomes
BP111PCO1	Apply speaking and writing skills in professional as well as social situations
BP111PCO2	Overcome Mother Tongue Influence and demonstrate neutral accent while exercising English
BP111PCO3	Apply communication skills for Presentations, Group Discussion and interpersonal interactions
BP111PCO4	Apply grammar correctly during Speaking and Writing situations especially in context with Presentations, Public Speaking, Report writing and Business Correspondence

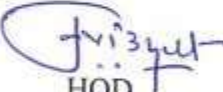
CO-PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
BP105T											
BP111PCO1	1	3	1	1	1	1	1	3	1	1	3
BP111PCO2	1	3	1	1	1	1	1	3	1	1	3
BP111PCO3	1	3	2	1	3	1	1	3	1	1	3
BP111PCO4	1	3	2	1	1	1	1	3	1	1	3
Average	1	3	1.5	1	1.5	1	1	3	1	1	3
Average Roundup	1	3	2	1	3	1	1	3	1	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Course co-ordinator
Mr. P. R. Joshi


HOD
Dr. A. M. Bhagwat.


Principal
Dr. V. K. Redasani



NAAC - B⁺

Name of the course: RB

Semester: I

YashodaShikshanPrasarakMandal's

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

Course outcomes

Course Code: BP106RBT

Class: I B.Pharm

After completion of course students will be able to

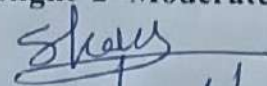
CO	Course Outcomes
BP106RBTC01	Analyze the characteristics & diversity of living world, binomial nomenclature, five kingdom classification of life and also morphology of different parts of flowering plants.
BP106RBTC02	Explain body fluids, circulation, composition & function of blood, lymph, blood grouping, cardiovascular system along with cardiac cycle, cardiac output, ECG & also digestion, absorption, breathing & respiration.
BP106RBTC03	Understand excretory products & their elimination, neural control & coordination, chemical coordination & regulation and human reproduction.
BP106RBTC04	Describe plant & mineral nutrition, process & factors affecting photosynthesis.
BP106RBTC05	Explain plant respiration, growth & development and also structure & function of cell, cell cycle & different tissues their location & function.

CO-PO mapping

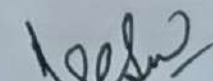
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP106RBTC O1	3	2	3	3	2	2	3	3	1	3	3
BP106RBTC O2	3	3	3	3	2	3	3	3	3	3	3
BP106RBTC O3	2	1	3	3	2	1	2	3	3	1	3
BP106RBTC O4	3	1	3	3	2	1	2	3	3	1	3
BP106RBTC O5	3	1	3	3	2	1	2	3	3	1	3
Average	2.8	1.6	3	3	2	1.6	2.4	3	2.6	1.8	3
Average Roundup	3	2	3	3	2	2	3	3	3	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


S.K. Deshmukh
Course co-ordinator


HOD


Principal



YashodaShikshanPrasarakMandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

NAAC- B⁺

Course outcomes

Name of the course:RB

Course Code: BP112RBP

Semester: I

Class: I B.Pharm

After completion of course students will be able to

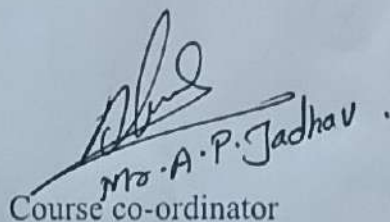
CO	Course Outcomes
BP112RBPC01	Explain parts of microscope, preparation of slide, cell & its inclusions, morphology of flowering plant & their modifications, anatomy and physiology of frog.
BP112RBPC02	Perform microscopic study & identification of various tissues of different parts of flowering plant.
BP112RBPC03	Identify bones and determine blood group, blood pressure, tidal volume.

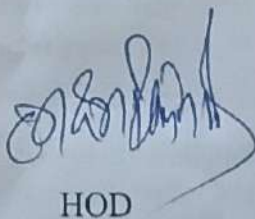
CO-PO mapping

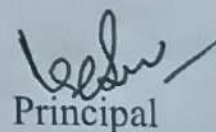
	P01	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP112RBPCO1	3	3	3	2	2	3	3	3	3	3	3
BP112RBPCO2	3	2	3	1	1	3	3	3	3	3	3
BP112RBPCO3	3	3	2	3	3	3	3	1	1	3	3
Average	3	2.6	2.6	2	2	3	3	2.3	2.3	3	3
Average Roundup	3	3	3	2	2	3	3	3	3	3	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Mr. A.P. Jadhav
Course co-ordinator


HOD


Principal



NAAC- B⁺

Name of the course: HAP-II

Semester: II

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

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

Course outcomes

Course Code: BP201T

Class: I B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP201TC01	Explain organization, morphology structure & basic functions of central nervous system and its different parts.
BP201TC02	Analyze anatomy and physiology of Digestive system and relate pathophysiology of related diseases & discuss Formation and role of energetic.
BP201TC03	Compare and distinguish anatomy and physiology of different organs of respiratory system, urinary system and pathophysiology of related diseases.
BP201TC04	Identify endocrine glands & their hormones and understand their structure & function along with related diseases.
BP201TC05	Understand and compare structure & function of human reproductive system and remember genetics.

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											
BP201TC01	3	1	2	2	1	2	1	3	2	1	3
BP201TC02	3	1	2	2	1	2	1	3	2	1	3
BP201TC03	3	1	2	2	1	2	1	3	2	1	3
BP201TC04	3	1	2	2	1	2	1	3	2	1	3
BP201TC05	3	1	2	2	1	2	1	3	2	1	3
Average	3	1	2	2	1	2	1	3	2	1	3
Average Roundup	3	1	2	2	1	2	1	3	2	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Kadam

Course co-ordinator

Ms. P.B. Kadam

[Signature]
HOD

[Signature]
Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Pharmaceutical Organic Chemistry-I

Course Code:BP202T

Semester:II

Class: First Year B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP102TCO1	Classify, nomenclature, structure and the type of isomerism of the organic compound
BP102TCO2	Explain important physical properties, reactions (and underlying mechanisms) and methods of preparation of Alkanes, Alkenes and Conjugated dienes
BP102TCO3	Explain important physical properties, reactions (and underlying mechanisms) and methods of preparation of Alkyl halides and alcohol
BP102TCO4	Explain important physical properties, reactions (and underlying mechanisms) of Carbonyl compound
BP102TCO5	Explain identification process and uses of Carboxylic acid and its derivative.

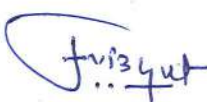
CO-PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP202TCO1	3	2	3	2	2	3	3	1	-	-	3
BP202TCO2	3	2	3	-	-	3	3	-	-	2	3
BP202TCO3	3	2	3	-	-	3	3	-	1	2	3
BP202TCO4	3	2	3	-	-	3	3	-	1	2	3
BP202TCO5	3	2	3	-	-	3	3	-	1	2	3
Average	3	2	3	2	2	3	3	1	1	2	3
Average Roundup	3	2	3	2	2	3	3	1	1	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Course co-ordinator
(S.H.Rohane)


HOD


Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Biochemistry

Course Code: BP203T

Semester: II

Class: ---- B.Pharm II

After completion of course students will be able to

CO	Course Outcomes
BP203TC01	Understand the biological role of different biomolecule and the Concept of free energy, energy rich compounds and biological significances of ATP.
BP203TC02	Explain the metabolism of nutrient molecules like carbohydrates and biological oxidation.
BP203TC03	Describe the metabolism of nutrient molecules like lipid and amino acid.
BP203TC04	Clarify the genetic organization of mammalian genome and functions of DNA in the synthesis of RNAs and proteins.
BP203TC05	Elaborate the catalytic role of enzymes, importance of enzyme, therapeutic and diagnostic applications of enzymes

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											
BP203TC01	3	1	3	2	2	3	2	2	3	1	3
BP203TC02	3	1	1	2	2	3	2	1	3	2	3
BP203TC03	3	1	1	2	-	1	2	2	3	2	3
BP203TC04	3	3	2	3	1	3	2	3	3	1	3
BP203TC05	3	2	3	3	2	2	2	2	2	2	3
Average	3	1.6	2	2.4	1.7	2.4	2	2	2.8	1.6	3
Average Roundup	3	2	2	2	2	2	2	2	3	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator

Dr. B. V. Chaware


HOD


Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

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

Course outcomes

Name of the course: Pathophysiology

Course Code: BP204T

Semester: II

Class: F.Y.B.Pharm

CO	Course Outcomes
BP204T C01	Gain In-Depth Knowledge of Basic principles of Cell injury Adaptation and concept of inflammation and repair.
BP204T C02	Analyze factors that contribute to the occurrence of diseases of CVS, respiratory and renal system
BP204T C03	Understand the etiology and pathogenesis of various disease and disorders pertaining to Hematological, endocrine ,GI and nervous system
BP204T C04	Explain the etiology and pathogenesis of cancer and disorders related to bones and joints.
BP204T C05	Apply contextual knowledge of pathophysiology to maintain health and to prevent the occurrence and spread of Infectious and Sexually transmitted disease.

After completion of course students will be able to

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											
BP204T CO1	3	2	3	2	2	2	1	3	2	1	3
BP204T CO2	3	2	3	2	2	2	1	2	2	1	3
BP204T CO3	3	2	3	2	2	2	1	2	2	1	3
BP204T CO4	3	2	3	2	2	2	1	2	2	1	3
BP204T CO5	3	2	3	2	2	2	1	1	2	1	3
Average	3	2	3	2	2	2	1	2	2	1	3
Average Roundup	3	2	3	2	2	2	1	2	2	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



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara - 4150
Course outcomes(2023-24)

Name of the course: Computer Applications in Pharmacy

Course Code: BP205T

Semester: II

Class: --- First Year B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP205TC01	Illustrate the number system and learn the concept of information system and software
BP205TC02	Understand and illustrate web technologies
BP205TC03	Explain applications of computers in pharmacy
BP205TC04	Understand the concept of bioinformatics
BP205TC05	Learn the role of computer in preclinical development

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											
BP205TC01	1	2	2	3	2	2	1	2	1	1	3
BP205TC02	1	2	1	3	2	2	1	2	1	1	3
BP205TC03	2	2	2	3	2	2	2	2	2	2	3
BP205TC04	1	2	1	3	2	2	1	2	1	1	3
BP205TC05	2	2	2	3	2	2	2	2	2	2	3
Average	1.4	2	1.6	3	2	2	1.4	2	1.4	1.4	3
Average Roundup	1	2	2	3	2	2	1	2	1	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

(MS.N.D. Neikawade)
(Name & Sign)

Course co-ordinator

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

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



NAAC- B⁺

YashodaShikshanPrasarakMandal's

Yashoda Technical Campus,

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

Course outcomes

Name of the course: Environmental Science

Course Code: BP206T

Semester: II

Class: First Year B. Pharm.

After completion of course students will be able to

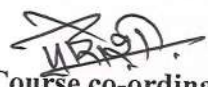
CO	Course Outcomes
BP206TC01	Create awareness to identify and solve enviromental problems
BP206TC02	Understand and study the concept of ecosystem
BP206TC03	Understand and study different types of pollution and problems regarding it

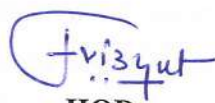
CO-PO mapping


	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP206TC01	1	1	2	2	2	1	2	2	2	3	3
BP206TC02	1	1	2	1	2	1	1	1	2	3	3
BP206TC03	1	1	2	2	2	2	2	2	2	3	3
Average	1	1	2	1.6	2	1.3	1.6	1.6	2	3	3
Average Roundup	1	1	2	2	2	1	2	2	2	3	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Course co-ordinator
Mr. P. R. Joshi


HOD
Dr. A. M. Bhagwat


Principal
Dr. V. K. Redasani



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Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

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

Course outcomes

Name of the course:

Human anatomy and physiology-II

Course Code: BP207P

Semester: II

Class: FY B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP207PC01	Adapt knowledge about the physiological processes discussed in theory classes through experiments on human beings
BP207PC02	Develop the knowledge on coordinating working of organs of various systems with the help of models, charts and specimens.
BP207PC03	Apply knowledge about body temperature and body mass index.
BP207PC04	Assess the knowledge on family planning devices, pregnancy diagnostic tests, vital organs and gonads.

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											
BP207PC01	3	1	2	1	1	2	1	3	2		2
BP207PC02	3	1	2	1	1	2	1	3	2		2
BP207PC03	3	1	2	1	1	2	1	3	2		2
BP207PC04	3	1	2	1	1	2	1	3	2		2
Average	3	1	2	1	1	2	1	3	2		2
Roundup	3	1	2	1	1	2	1	3	2		2

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

[Signature]

Course co-ordinator

Mr. Omkar Desai

[Signature]
HOD

[Signature]
Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Pharmaceutical Organic Chemistry-I

Course Code:BP208P

Semester:II

Class: First Year B.Pharm

After completion of course students will be able to


CO	Course Outcomes
BP208PC01	Demonstrate steps involved in identification of unknown organic compound.
BP208PC02	Prepare suitable solid derivatives from organic compounds
BP208PC03	Draw structure using molecular model concept

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											
BP208PC01	3	3	3	-	2	3	3	3	2	2	3
BP208PC02	3	3	3	1	2	3	3	3	2	2	3
BP208PC03	3	3	3	-	2	-	-	3	2	2	3
Average	3	3	3	1	2	3	3	3	2	2	3
Average Roundup	3	3	3	1	2	3	3	3	2	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Course co-ordinator
(SHR)


HOD


Principal



Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

NAAC- B⁺

Course outcomes

Name of the course: Biochemistry

Course Code: BP209P

Semester: II

Class: ---- B.Pharm I

After completion of course students will be able to

CO	Course Outcomes
BP209PC01	Recognize qualitatively carbohydrates and Proteins.
BP209PC02	Analyze normal and abnormal constituents of urine and biological fluids like saliva.
BP209PC03	Identify sugar, creatinine, serum cholesterol etc. from blood and Preparation of buffers.

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											
BP209PC01	3	3	3	3	3	3	2	2	3	2	3
BP209PC02	3	3	3	3	3	3	3	3	3	1	3
BP209PC03	3	3	3	3	2	3	3	3	3	2	3
Average	3	3	3	3	2.66	3	2.66	2.66	3	1.66	3
Average Roundup	3	3	3	3	3	3	3	3	3	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator

Dr. B. V. Chaware


HOD


Principal



NAAC- B⁺

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

Course outcomes(2023-24)

Name of the course: Computer Applications in Pharmacy Practical Course Code: BP210P

Semester: II

Class: --- First Year B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP210PC01	Design a questionnaire and create mailing labels using MS word
BP210PC02	Creating web page and use of different online tools to gather information
BP210PC03	Creating databases using MS access and perform experiments working on it

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											
BP210PC01	2	2	2	3	2	2	1	2	2	3	3
BP210PC02	1	2	2	3	2	2	1	1	1	2	3
BP210PC03	1	2	2	3	2	2	1	1	1	3	3
Average	1.3	2	2	3	2	2	1	1.3	1.3	2.6	3
Average Roundup	1	2	2	3	2	2	1	1	1	3	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

(MS.N.D. Naikewadi)
(Name & Sign)

Course co-ordinator

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

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



NAAC- B⁺

Name of the course: POC-II

Semester: III

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

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

Course outcomes

Course Code: BP301T

Class: S.Y.B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP301TC01	Explain general methods of preparations, structures, reactions & reactivity of organic compounds.
BP301TC02	Describe structure, mechanisms and orientation reactions, uses of phenols, aromatic amines & aromatic acids.
BP301TC03	Summarize the chemistry & quality determination of fats & oils.
BP301TC04	Understand the synthesis, reactions & uses of polynuclear hydrocarbons.
BP301TC05	Integrate theories & limitations of stabilities of cycloalkanes, reactions of cycloalkanes.

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											
BP301TC01	3	2	2	3	1	2	1	1	2	2	3
BP301TC02	3	2	2	3	1	2	1	1	2	2	3
BP301TC03	3	2	2	2	2	2	1	1	3	2	3
BP301TC04	3	2	2	2	1	2	1	1	2	2	3
BP301TC05	3	2	2	3	1	2	1	1	2	2	3
Average	3	2	2	2.6	1.2	2	1	1	2.2	2	3
Average Roundup	3	2	2	3	1	2	1	1	2	2	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



NAAC- B⁺

Name of the course: B. Pharmacy

Semester: III

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

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

Course outcomes (2023-2024)

Course Code: BP302T

Class: S Y B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP302TC01	Illustrate the concepts of solubility
BP302TC02	Discuss states of matter along with physicochemical properties of drug molecule.
BP302TC03	Interpret the concept of surface and interfacial phenomenon.
BP302TC04	Summarize the principles of complexation, protein binding and use them for stability testing
BP302TC05	Describe the pH, Buffers and isotonic solutions.

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											
BP302TC01	3	2	1	2	1	1	2	2	1	1	3
BP302TC02	3	2	1	2	1	1	2	2	1	1	3
BP302TC03	3	2	1	2	1	1	2	2	1	1	3
BP302TC04	3	2	1	2	1	1	2	2	1	1	3
BP302TC05	3	2	1	2	1	1	2	2	1	1	3
Average	3	2	1	2	1	1	2	2	1	1	3
Average Roundup	3	2	1	2	1	1	2	2	1	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator

Mrs. Bhongale P. A.

HOD

Dr. Jadhav P. D.

Principal

Dr. Redasani V. K.



Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,

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

NAAC- B⁺

Course outcomes (2023-24)

Name of the course: Pharmaceutical Microbiology

Course Code: BP303T

Semester:III

Class: S.Y. B.Pharm

After completion of course students will be able to

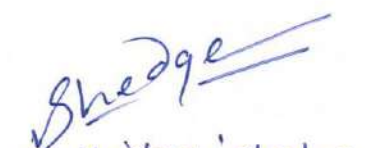
CO	Course Outcomes
BP301TCO1	Explain identification, cultivation, preservation & structure of Bacteria
BP301TCO2	Elaborate sterilization & Disinfection process
BP301TCO3	Explain morphology, classification, reproduction/replication of Virus & Fungi
BP301TCO4	Discuss microbiological standardization of pharmaceuticals with aseptic technique
BP301TCO5	Explain cell culture technology with its application & testing Pharmaceutical product

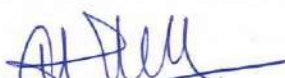
CO-PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP303TCO1	3	3	1	2	1	2	1	2	2	2	2
BP303TCO2	3	2	1	3	1	1	2	2	2	3	3
BP303TCO3	3	1	3	1	1	1	1	1	1	1	1
BP303TCO4	3	2	2	2	1	2	2	2	2	2	2
BP303TCO5	3	1	3	3	2	3	1	2	1	3	2
Average	3	1.8	2	2.2	1.2	1.8	1.4	1.8	1.6	2.2	2
Average Roundup	3	2	2	2	1	2	1	2	2	2	2

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Vaishnavi shedge
Course co-ordinator


HOD


Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

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

Course outcomes

Name of the course: Pharmaceutical Engineering

Course Code: (BP304T)

Semester: III

Class: S.Y. B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP304TC01	Elaborate flow of fluids & discuss size separation, size reduction.
BP304TC02	Discuss the concept behind heat transfer, evaporation, distillation in related to the pharmaceuticals.
BP304TC03	Illustrate the process of drying and mixing.
BP304TC04	Describe the method of filtration and centrifugation.
BP304TC05	Explain materials of pharmaceutical plant construction and apply various preventive methods for corrosion pharmaceutical industry.

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											
BP304TC01	3	2	3	3	2	1	3	1	2	3	3
BP304TC02	3	2	3	3	2	1	2	1	2	2	3
BP304TC03	3	2	3	3	2	1	3	1	2	3	3
BP304TC04	3	2	3	2	2	1	3	1	2	3	3
BP304TC05	3	2	3	2	2	1	2	1	1	2	3
Average	3	2	3	2.6	2	1	2.6	1	1.8	2.6	3
Average Roundup	3	2	3	3	2	1	3	1	2	3	3

Correlation level 1, 2, 3 as defined below

1- Slight 2- Moderate 3 Strong

Course co-ordinator
C.S.A. Patil

HOD

Principal



NAAC- B⁺

Name of the course: POC-II

Semester:III

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

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

Course outcomes

Course Code: BP305P

Class: S.Y. B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP305PC01	Understand laboratory techniques steam distillation, recrystallisation.
BP305PC02	Estimate the analytical constants of fats & oils.
BP305PC03	Synthesis and analysis of drugs with medicinal uses.

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											
BP305PC01	3	3	3	2	3	3	1	3	3	2	3
BP305PC02	3	3	3	2	3	3	1	3	3	2	3
BP305PC03	3	3	3	2	3	3	1	3	3	2	3
Average	3	3	3	2	3	3	1	3	3	2	3
Average Roundup	3	3	3	2	3	3	1	3	3	2	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



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

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

Course outcomes (2023-2024)

Name of the course: Physical Pharmaceutics-I

Course Code: BP306P

Semester: III

Class: S.Y. B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP306PC01	Demonstrate the physicochemical properties of drug molecule
BP306PC02	Acquire the knowledge of surface tension with its determination methods.
BP306PC03	Elaborate the principles of complexations and use them to calculate stability constant.

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											
BP306PC01	3	3	2	2	3	2	2	3	1	1	3
BP306PC02	3	3	2	2	3	2	2	3	1	1	3
BP306PC03	3	3	2	2	3	2	2	3	1	1	3
Average	3	3	2	2	3	2	2	3	1	1	3
Average Roundup	3	3	2	2	3	2	2	3	1	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator

Mrs. Bhongale P. A.

HOD

Dr. Jadhav P. D.

Principal

Dr. Redasani V. K.



NAAC- B⁺

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

Course outcomes 2023-24

Name of the course: Pharmaceutical Microbiology

Course Code: BP307P

Semester:III

Class: S.Y. B.Pharm

After completion of course students will be able to


CO	Course Outcomes
BP307PCO1	Demonstrate equipment used in Pharmaceutical Microbiology
BP307PCO2	Prepare & sterilize culture media with glasswares.
BP307PCO3	Execute methods of identification, isolation, cultivation and preservation of Bacteria.
BP307PCO4	Perform sterility testing of pharmaceutical products.& Carry out microbiological standardization of Pharmaceuticals.

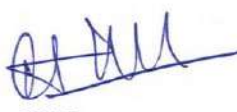
CO-PO mapping

	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP307PCO1	3	2	2	2	3	2	1	3	1	3	2
BP307PCO2	3	3	2	3	3	2	1	2	1	2	1
BP307PCO3	3	3	3	3	3	2	1	2	2	2	1
BP307PCO4	3	3	3	3	3	2	1	2	1	2	2
Average	3	2.75	2.5	2.75	3	2	1	2.25	1.25	2.25	1.5
Average Roundup	3	3	3	3	3	2	1	2	1.25	2.25	1.5

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Vaishnavi Shedge
Course co-ordinator


HOD


Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Pharmaceutical Engineering

Course Code: BP308P

Semester:III

Class: S.Y. B.Pharm

After completion of course students will be able to


CO	Course Outcomes
BP308PC01	Perform experiments related to the evaporation ,mixing and drying
BP308PC02	Discuss the concept of filtration and investigate the factors affecting on rate of filtration
BP308PC03	Demonstrate different equipments used in pharmaceutical unit operation


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											
BP308PC01	3	3	1	2	2	2	1	1	2	2	2
BP308PC02	3	3	1	2	2	2	1	1	2	2	2
BP308PC03	3	3	1	2	2	2	1	1	2	2	2
Average	3	3	1	2	2	2	1	1	2	2	2
Average Roundup	3	3	1	2	2	2	1	1	2	2	2

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Adul Ameri ✓
Course co-ordinator


HOD


Principal



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 conformational 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

Bhongale

Course co-ordinator

Mrs. Bhongale P. A.

Bhagwat

HOD

Dr. Bhagwat A. M.

Redasani

Principal

Dr. Redasani V. K.



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

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 & antiinflammatory 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											
BP402TC01	3	2	1	2	1	2	1	1	3	1	3
BP402TC02	3	2	1	2	1	2	1	1	3	1	3
BP402TC03	3	2	1	2	1	2	1	1	3	1	3
BP402TC04	3	2	1	2	1	2	1	1	3	1	3
BP402TC05	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



NAAC- B⁺

Name of the course: B. Pharmacy

Semester: IV

Course outcomes

Course Code: BP403T

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											
BP403TC01	3	2	1	3	3	2	1	2	1	1	3
BP403TC02	3	2	2	2	2	2	1	2	1	2	3
BP403TC03	3	2	2	2	2	2	1	2	1	2	3
BP403TC04	3	1	1	3	3	2	1	2	1	1	3
BP403TC05	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

(Name & Sign)

Course co-ordinator

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

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

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	Summarize 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)



Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501
Course outcomes

NAAC- B⁺

Name of the course: Pharmacognosy-I

Course Code: BP405T

Semester: IV

Class: Second Year B.Pharm

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											
BP405TC01	3	1	2	1	1	2	2	2	1	1	3
BP405TC02	3	2	2	1	1	2	2	2	2	2	3
BP405TC03	3	3	2	1	1	2	2	2	2	1	3
BP405TC04	3	2	2	1	1	2	2	2	2	1	3
BP405TC05	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



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

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											
BP406PC01	3	3	3	1	1	2	1	1	1	-	2
BP406PC02	3	3	3	2	1	2	1	1	1	1	2
BP406PC03	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

NAAC- B⁺

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											
BP407PC01	3	3	2	3	3	2	1	3	2	2	3
BP407PC02	3	3	2	2	3	2	2	3	2	2	3
BP407PC03	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. Priyanka Shinde)

(Name & Sign)

Course co-ordinator



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



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



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara

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	Interpret 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



Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 415001
Course outcomes

NAAC- B⁺

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											
BP409PC01	3	2	1	2	3	2	1	3	1	1	2
BP409PC02	3	3	2	3	3	1	1	1	1	1	1
BP409PC03	3	3	3	3	3	2	1	2	2	2	1
BP409PC04	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



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Medicinal Chemistry-II

Course Code:BP501T

Semester:V

Class: Third Year B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP501TCO1	Explain physicochemical & pharmacological properties of drugs in class Antihistaminic agents & Anti-neoplastic agents
BP501TCO2	Describe physicochemical & pharmacological properties of drugs in class Anti-angina, Diuretics, Anti-hypertensive Agents
BP501TCO3	Summarize physicochemical & pharmacological properties of drugs in class Anti-arrhythmic Drugs, Anti-hyperlipidemic agents, Coagulant & Anticoagulants & CHF
BP501TCO4	Understand physicochemical & pharmacological properties of drugs acting on Endocrine system
BP501TCO5	Integrate physicochemical & pharmacological properties of drugs in class Antidiabetic agents & Local Anesthetics

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											
BP501TCO1	3	2	1	2	1	2	3	1	2	1	3
BP501TCO2	3	2	1	2	1	2	3	1	2	1	3
BP501TCO3	3	2	1	2	1	2	3	1	2	1	3
BP501TCO4	3	2	1	2	1	2	3	1	2	1	3
BP501TCO5	3	2	1	2	1	2	3	1	2	1	3
Average	3	2	1	2	1	2	3	1	2	1	3
Average Roundup	3	2	1	2	1	2	3	1	2	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Course co-ordinator
(S.H. Rohane)


HOD


Principal



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: Industrial Pharmacy-I

Course Code: BP502T

Semester: V

Class: T. Y. B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP502TC01	Apply the knowledge of preformulation in the development of new dosage form
BP502TC02	Summarise the manufacturing of tablet and liquid orals
BP502TC03	Elaborate formulation and evaluation of hard, soft gelatin capsule and pellets
BP502TC04	Illustrate various considerations in sterile dosage form
BP502TC05	Describe cosmetic product, pharmaceutical aerosol and packaging material science

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											
BP502TC01	3	2	3	1	2	2	2	2	2	1	3
BP502TC02	3	2	3	1	2	2	2	2	2	1	3
BP502TC03	3	2	2	1	2	2	2	2	2	1	3
BP502TC04	3	2	2	1	2	2	2	2	2	1	3
BP502TC05	3	2	1	1	2	1	2	2	2	1	3
Average	3	2	2	1	2	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



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's

Yashoda Technical Campus,

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

Course outcomes

Name of the course: Pharmacognosy & Phytochemistry II [TH]

Course Code: BP504T

Semester: V

Class: -Third Yr.B.Pharm

After completion of course students will be able to


CO	Course Outcomes
BP504TCO1	Summarize metabolic pathways in higher plants and procedure for determination of metabolites.
BP504TCO2	Discuss in detail about secondary metabolites with their uses & commercial applications.
BP504TCO3	Explain the process of isolation, identification and analysis of phytoconstituents
BP504TCO4	Describe the industrial production, estimation and utilization of the phytoconstituents.
BP504TCO5	Describe basics of phytochemistry, modern methods of extraction, spectroscopy & chromatography.


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											
BP504TCO1	3	2	2	2	1	1	3	1	1	1	3
BP504TCO2	3	3	3	1	1	1	3	1	1	3	3
BP504TCO3	3	3	3	3	2	3	3	3	3	2	3
BP504TCO4	3	2	3	2	3	3	3	2	3	2	3
BP504TCO5	3	3	3	3	3	3	3	3	3	3	3
Average	3	2.6	2.8	2.2	2	2.2	3	2.2	2.2	2.6	3
Average Roundup	3	3	3	2	2	2	3	2	2	3	3

Correlation level 1, 2, 3 as defined below

1- Slight 2- Moderate 3 High


Ms. J. S. Pingle
Course co-ordinator


HOD


Principal
Dr. V. K. Redasani



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 Jurisprudence

Course Code: BP505T

Semester: V

Class: T. Y. B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP505TC01	Explain Pharmaceutical legislations and their implications in the development and marketing of pharmaceuticals and cosmetics
BP505TC02	Describe regulatory authorities and agencies governing the manufacture and sale of pharmaceuticals and cosmetics
BP505TC03	Elaborate pharmacy act, NDPS act and medicinal and toilet preparation act
BP505TC04	Summarise DMR act, prevention of cruelty to animal act and NPPA
BP505TC05	Discuss pharmaceutical legislation, code of ethics, MTP act, RTI and IPR

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											
BP505TC01	3	3	3	1	3	3	3	2	3	1	3
BP505TC02	3	2	3	1	3	3	3	2	3	1	3
BP505TC03	3	2	3	1	3	3	3	2	3	1	3
BP505TC04	3	2	3	1	3	3	3	2	3	1	3
BP505TC05	3	2	3	1	3	2	3	2	3	1	3
Average	3	2	3	1	3	3	3	2	3	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator

Mrs. Bhongale P. A.

HOD

Dr. Jadhav P. D.

Principal

Dr. Redasani V. K.



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: Industrial Pharmacy-I

Course Code: BP506P

Semester: V

Class: T. Y. B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP506PC01	Illustrate physicochemical properties of drug
BP506PC02	Formulate and evaluate solid, liquid, semisolid, sterile dosage form, cosmetic product
BP506PC03	Evaluate marketed formulation of tablet, capsule and pharmaceutical packaging material.

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											
BP506PC01	3	3	3	3	3	3	3	2	2	2	3
BP506PC02	3	3	3	3	3	3	3	2	2	2	3
BP506PC03	3	3	3	3	3	3	3	2	2	2	3
Average	3	3	3	3	3	3	3	2	2	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

[Signature]
Course co-ordinator

[Signature]
HOD

[Signature]
Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 4150

Course outcomes (2023-24)

Name of the course: Pharmacology II(TH)

Course Code:BP503T

Semester:V

Class: T.Y B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP503TCO1	Discuss the relative pros and cons in the use of drugs for various cardiac complications.
BP503TCO2	Clarify the drugs acting on hematopoietic system, shock, diuretics and anti-diuretics.
BP503TCO3	Identify the role of autocoids and related drugs.
BP503TCO4	Analyze and summarize the drugs acting on endocrine system.
BP503TCO5	Evaluate the physiological role of sex hormones and to assess the effects of oral contraceptives and drugs acting on the uterus also to predict principles of bioassay for various compounds

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											
BP503TCO1	3	1	1	2	1	3	3	2	2	1	3
BP503TCO2	3	2	1	2	1	3	3	2	2	1	3
BP503TCO3	3	1	1	1	1	3	3	2	2	1	3
BP503TCO4	3	2	1	1	1	2	1	2	2	1	3
BP503TCO5	3	2	1	1	1	3	3	2	2	1	3
Average	3	1.6	1	1.4	1	2.8	2.6	2	2	1	3
Average roundup	3	2	1	1	1	3	3	2	2	1	3

Correlation level 1,2,3 as defined below

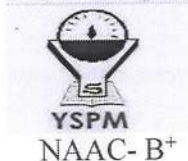
1- Slight 2- Moderate 3 High

Course co-ordinator

(Mrs. R.V. Jadhav)

HOD

Principal



Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501
Course outcomes (PR)(2023-24)

Name of the course: B.Pharm

Course Code: BP507P

Semester: V

Class: T.Y. B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP507P1	To learn the importance of physiological salt solutions, to identify the effect of various drugs on isolated frog heart, blood pressure and heart rate of dog and to illustrate the diuretic activity of drugs in mice/rats
BP507P2	To identify the dose response relationship, effect of drugs on DRC and to construct the drug concentrations by various bioassay methods using animal simulator software and to categorize the PA2 and PD2 value of drugs using rat anococcygeus muscle and guinea pig ileum.
BP507P3	To interpret the effect of spasmogens and spasmolytics using rabbit jejunum and to predict various screening models for analgesic and antiinflammatory.

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											
BP507P1	3	3	1	2	1	3	3	2	1	2	3
BP507P2	3	3	1	2	1	3	3	2	1	2	3
BP507P3	3	3	1	2	1	2	3	2	1	2	3
Average	3	3	1	2	1	3	3	2	1	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator
(Mrs. R.V. Jadhav)

HOD

Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara - 41501

Course outcomes

Name of the course: Pharmacognosy & Phytochemistry II [PR]

Course Code: BP508P

Semester: V

Class: -Third Yr.B.Pharm

After completion of course students will be able to


CO	Course Outcomes
BP508PCO1	Perform Extraction & detection of different crude drugs along with morphology, histology & powder characteristics.
BP508PCO2	Perform isolation & detection of active principles, separation of sugars by paper chromatography.
BP508PCO3	Perform Distillation of volatile oils & detection of phytoconstituents by TLC, Extraction of different phytoconstituents.
BP508PCO4	Perform analysis of crude drugs by using different chemical test.


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											
BP508TCO1	3	3	3	2	3	3	3	1	1	1	3
BP508TCO2	3	3	3	2	3	3	3	2	1	1	3
BP508TCO3	3	3	3	3	2	3	3	2	2	2	3
BP508TCO4	3	3	3	2	2	3	3	2	1	1	3
Average	3	3	3	2.5	2.5	3	3	2	1.2	1.2	3
Average Roundup	3	3	3	3	3	3	1	2	1	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Ms. J. S. Pingle
Course co-ordinator


HOD


Principal
Dr. V. K. Redasani



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Medicinal Chemistry III

Course Code: BP601T

Semester: VI

Class: T.Y.B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP601TC01	Explain physicochemical & pharmacological properties of drugs in class Antibiotics.
BP601TC02	Describe physicochemical & pharmacological properties of drugs in class Antimalarial & concept of prodrugs.
BP601TC03	Summarize physicochemical & pharmacological properties of drugs in class Anti-tubercular Agents, Anti tubercular antibiotics, Urinary tract anti-infective agents, Antiviral agents.
BP601TC04	Understand drugs acting on Antifungal agents, Anti-protozoal Agents, Anthelmintics, Sulphonamides and Sulfones with their physicochemical & pharmacological properties.
BP601TC05	Integrate modern techniques of rational drug design like quantitative structure activity relationship (QSAR), combinatorial chemistry and Computer aided drug design.

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											
BP601TC01	3	2	1	2	1	3	1	1	2	1	3
BP601TC02	3	2	1	2	1	3	1	1	2	1	3
BP601TC03	3	2	1	2	1	3	1	1	2	1	3
BP601TC04	3	2	1	2	1	3	1	1	2	1	3
BP601TC05	3	2	1	3	2	3	1	1	2	1	3
Average	3	2	1	2.2	1.2	3	1	1	2	1	3
Average Roundup	3	2	1	2	1	3	1	1	2	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



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara - 41501

Course outcomes

Name of the course: Pharmacology-III

Course Code: BP602T

Semester: VI

Class: T.Y.B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP602TC01	Describe the drugs acting on Respiratory system and Gastrointestinal Tract
BP602TC02	Explain Principles of Chemotherapy, Sulfonamides, Cotrimoxazole and different Antibiotics
BP602TC03	Illustrate Chemotherapies of tubercular diseases, fungal, malarial, amoebic, leprotic, helminthics and viral diseases
BP602TC04	Understand Pathophysiology and Treatment of Urinary tract infection, sexually transmitted diseases and malignancy, and to have knowledge about immunostimulants and monoclonal antibodies
BP602TC05	Explain toxicology, its definition, principles of treatment of poisoning, clinical symptoms and management of heavy metals poisoning, concepts of chronopharmacology its cycles and its significance

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											
BP602TC01	3	1	2	1	1	3	2	2	2	1	3
BP602TC02	3	1	1	1	1	3	3	2	2	1	3
BP602TC03	3	2	1	1	1	3	3	2	2	1	3
BP602TC04	3	2	1	1	1	3	3	2	2	1	3
BP602TC05	3	2	1	1	2	3	3	2	2	1	3
Average	3	1.6	1.2	1	1.2	3	2.8	2	2	1	3
Average Roundup	3	2	1	1	1	3	3	1	2	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator
Ms. S. S. Pawar

HOD
Mr. Purane L.M.

Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Herbal Drug Technology [TH]

Course Code: BP603T

Semester: VI

Class: -Third Yr.B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP603TCO1	Explain herbs as raw materials, understand biodynamic agriculture, Indian systems of medicine, preparation & standardization of different Ayurvedic formulations.
BP603TCO2	Describe nutraceuticals, health benefits & role in Diabetes, CVS, IBS, Cancer & GI diseases. Understand the herbs as health food, herb-drug interaction & Herb-Food interactions.
BP603TCO3	Discuss the different herbal raw materials, herbal excipients uses for preparation of herbal cosmetics & herbal formulations.
BP603TCO4	Elaborate evaluation of herbal drugs, ICH guidelines, Study patenting & regulatory requirements of natural products.
BP603TCO5	Outline introduction to herbal Industry, GMP of Indian systems of medicine.

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											
BP603TCO1	3	1	1	2	1	2	3	1	2	2	3
BP603TCO2	3	2	1	1	1	2	2	2	3	1	3
BP603TCO3	3	3	1	1	1	3	3	2	2	1	3
BP603TCO4	3	1	1	1	2	1	2	1	1	1	3
BP603TCO5	3	2	1	1	1	1	2	1	2	1	3
Average	3	1.8	1	1.2	1.2	1.6	2.4	1.4	2	1.2	3
Average Roundup	3	2	1	1	1	2	2	1	2	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Ms. J. S. Pingle
Course co-ordinator

HOD

Principal
Dr. V. K. Redasani





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Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Biopharmaceutics & Pharmacokinetics

Course Code: (BP604T)

Semester: VI

Class: T.Y. B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP604TC01	Explain process of absorption & distribution
BP604TC02	Describe Elimination, Bioavailability & Bioequivalence.
BP604TC03	Apply the knowledge use of plasma drug concentration-time data to calculate the pharmacokinetic parameters.
BP604TC04	Discuss compartmental modeling with open compartmental model.
BP604TC05	Elaborate non linear kinetics with its causes & mechanism equation.

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											
BP604TC01	3	2	2	3	1	2	2	1	2	1	3
BP604TC02	3	2	2	3	1	2	2	1	2	1	3
BP604TC03	3	2	1	2	1	2	2	1	2	1	3
BP604TC04	3	2	2	2	1	2	2	1	2	1	3
BP604TC05	3	2	2	2	1	2	2	1	2	1	3
Average	3	2	1.8	2.4	1	2	2	1	2	1	3
Average Roundup	3	2	2	2	1	2	2	1	2	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator

HOD

Principal



NAAC- B⁺

Name of the course: B. Pharmacy

Semester: VI

Course outcomes

Course Code: BP605T

Class: T.Y. B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP605TC01	Explain the importance of enzyme immobilization in pharmaceutical industry and classify methods of it.
BP605TC02	Discuss genetic engineering and its applications in relation to production of pharmaceuticals.
BP605TC03	Define Immunoglobulin and State the scope of monoclonal antibodies.
BP605TC04	Elaborate microbials genetics along with Immunoblotting technique and mutation
BP605TC05	Identify the use of microorganisms in fermentation technology.

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											
BP605TC01	3	1	1	2	1	1	2	1	2	2	3
BP605TC02	3	1	1	2	1	1	2	1	2	2	3
BP605TC03	3	1	1	2	2	1	2	2	2	2	3
BP605TC04	3	1	1	3	2	1	2	2	2	2	3
BP605TC05	3	1	1	2	2	1	2	2	2	2	3
Average	3	1	1	2.4	1.6	1	2	1.4	2	2	3
Average Roundup	3	1	1	2.4	2	1	2	1.4	2	2	3


Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


(Ms. Prigashinde)
(Name & Sign)

Course co-ordinator


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


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



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Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara - 41501

Course outcomes

Name of the course: Pharmaceutical Quality Assurance

Course Code: BP606T

Semester: VI

Class: Third Year B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP606TCO1	Understand the Quality Assurance, Quality Management concepts, Total Quality Management, ICH Guidelines, Quality by design (QbD), ISO 9000 & ISO 14000, NABL accreditation and GMP concepts.
BP606TCO2	Summarize and study organization and personnel, premises, equipments and raw materials for pharmaceutical industry.
BP606TCO3	Interpret Quality control of packaging material and concept of Good Laboratory Practices.
BP606TCO4	Explain the concept of documentation in pharmaceutical industry and concept of complaints.
BP606TCO5	Understand the calibration and validation also study the concept of warehousing and distribution.

CO-PO mapping

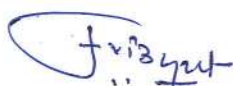
	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP606TCO1	3	2	1	1	2	3	1	1	2	2	3
BP606TCO2	3	1	-	-	1	2	1	1	2	2	3
BP606TCO3	3	1	-	1	-	2	2	1	2	1	3
BP606TCO4	3	2	2	-	2	2	1	1	2	2	3
BP606TCO5	3	2	2	-	1	2	1	1	2	-	3
Average	3	1.6	1.6	1	1.5	2.2	1.2	1	1.8	1.5	3
Average Roundup	3	2	2	1	2	2	1	1	2	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Sandhya P. Kadam

Course co-ordinator


HOD


Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Medicinal Chemistry III

Course Code: BP607P

Semester: VI

Class: T.Y. B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP607PC01	Synthesis and analysis of drugs of medicinal uses
BP607PC02	Perform assay of drug
BP607PC03	Draw structures of drugs using modern tools & determine physicochemical properties of drugs

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											
BP607PC01	3	3	3	2	3	3	1	3	3	2	3
BP607PC02	3	3	3	2	3	3	1	3	3	2	3
BP607PC03	3	3	3	2	3	3	1	3	3	2	3
Average	3	3	3	2	3	3	1	3	3	2	3
Average Roundup	3	3	3	2	3	3	1	3	3	2	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



NAAC- B⁺

YashodaShikshanPrasarakMandal's

Yashoda Technical Campus,

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

Course outcomes (2023-24)

Name of the course: B Pharmacy (Pharmacology-III) **Course Code:** BP608P

Semester: VI

Class: T.Y B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP608PCO1	Acquainted with Dose calculation, pharmacokinetic parameters calculations, activities of antiallergic, anti-ulcer by assay and model and to know the tests for pyrogen and drugs effect on gastrointestinal motility
BP608PCO2	Comprehend the effect of Saline purgative, agonist, antagonist and Insulin hypoglycemic effect in animals and to estimate serum biochemical parameter by semi-autoanalyser
BP608PCO3	Understand the acute toxicities (oral, skin, eye) of substance and determining the biostatistics method (Student's t test, ANOVA, Chi square test, wilcoxon Signed Rank test)

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											
BP608PCO1	3	1	3	1	2	2	2	1	1	1	3
BP608PCO2	3	1	2	1	2	2	3	1	1	2	3
BP608PCO3	3	2	3	1	2	2	3	1	1	2	3
Average	3	1	3	1	2	2	3	1	1	2	3

Correlation level 1, 2, 3 as defined below

1- Slight 2- Moderate 3 High

Kadam

Course co-ordinator

Mr. P. B. Kadam

[Signature]

HOD

[Signature]

Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Herbal Drug Technology [PR]

Course Code: BP609P

Semester: VI

Class: -Third Yr.B.Pharm

After completion of course students will be able to

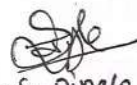
CO	Course Outcomes
BP609PCO1	Perform phytochemical screening of the extracts.
BP609PCO2	Prepare & Evaluate herbal formulations using standardized extracts
BP609PCO3	Evaluate crude drugs & excipients of natural origin.
BP609PCO4	Determine Alcohol, Aldehyde, Phenol & alkaloid content.


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											
BP609TCO1	3	2	1	2	2	2	3	1	1	2	3
BP609TCO2	3	2	1	1	1	3	3	1	1	2	3
BP609TCO3	3	1	1	1	1	3	3	1	2	1	3
BP609TCO4	3	2	2	2	2	3	3	1	1	1	3
Average	3	1.7	1.2	1.5	1.5	2.7	3	1	1.2	1.5	2.7
Average Roundup	3	2	1	2	2	3	3	1	1	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Ms. J. S. Pingle
Course co-ordinator


HOD


Principal
Dr. V. K. Redaram



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course Outcomes

Name of the course: Instrumental Methods of Analysis

Course Code: BP701T

Semester: VII

Class: IV B.Pharm

After completion of course students will be able to

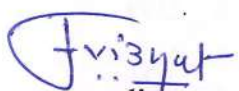
CO	Course Outcomes
BP701TC01	Understand and explain UV-Visible Spectroscopy and Fluorimetry
BP701TC02	Understand and describe IR spectroscopy, Flamephotometry, AAS, Nepheloturbidometry
BP701TC03	Understand and explain general chromatography, simple column chromatography, TLC, paper chromatography and electrophoresis
BP701TC04	Understand and describe GC and HPLC
BP701TC05	Understand and explain ion exchange, gel, affinity chromatography


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											
BP701TC01	3	1	1	2	1	2	2	2	2	1	2
BP701TC02	3	1	1	2	1	2	2	2	2	1	2
BP701TC03	3	1	1	2	1	2	2	2	2	1	2
BP701TC04	3	1	1	2	1	2	2	2	2	1	2
BP701TC05	3	1	1	2	1	2	2	2	2	1	2
Average	3	1	1	2	1	2	2	2	2	1	2

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Course co-ordinator
(Bhagwat A.M.)


NBA co-ordinator


HOD/Principal



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: B. Pharmacy

Course Code: BP702 IP II

Semester: VII

Class: Final Year B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP702TC01	Elaborate techniques of pilot plant and scale up of pharmaceutical dosage forms.
BP702TC02	Apply the knowledge of in technology transfer process from lab scale to commercial batch.
BP702TC03	Discuss different laws and acts that regulate pharmaceutical industry.
BP702TC04	Describe quality management systems.
BP702TC05	Illustrate the approval process and regulatory requirements for drug products.

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											
BP702TC01	3	3	2	1	1	2	3	3	2	1	3
BP702TC02	3	3	2	1	1	2	3	3	2	1	3
BP702TC03	3	3	2	1	1	2	3	3	2	1	3
BP702TC04	3	3	2	1	1	2	3	3	2	1	3
BP702TC05	3	3	2	1	1	2	3	3	2	1	3
Average	3	3	2	1	1	2	3	3	2	1	3
Average Roundup	3	3	2	1	1	2	3	3	2	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

Course co-ordinator

HOD

Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Pharmacy Practice

Course Code: BP703T

Semester: VII

Class: B.Pharm

After completion of course students will be able to-

CO	Course Outcomes
BP703TCO1	Conceptualize hospital , hospital pharmacy establishment and adverse drug reactions.
BP703TCO2	Differentiate Hospital and clinical pharmacy services and understanding safe and rational use of drug therapy
BP703TCO3	To gain knowledge on the specifics of pharmaceutical care services
BP703TCO4	Able to manage hospital and community pharmacy
BP703TCO5	Identify key clinical lab results and interpret with their disease and therapeutic outcomes


After completion of course students will be able to

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											
BP703TCO1	3	2	3	3	3	3	3	3	3	3	3
BP703TCO2	3	3	2	2	2	2	2	2	2	2	2
BP703TCO3	3	2	2	2	2	2	2	2	2	2	2
BP703TCO4	3	2	2	2	2	2	2	2	3	2	3
BP703TCO5	3	2	2	2	2	2	2	2	2	1	2
Average	3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2	2
Average Roundup	3	2	2	2	2	2	2	2	2	2	2

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


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

 HOD


Principal



Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501
Course outcomes (2023-24)

Name of the course: Novel Drug Delivery System **Course Code:** BP704T

Semester: VII

Class: Final Year B. Pharm

After completion of course students will be able to

CO-PO mapping

CO	Course Outcomes										
BP704TC01	Discuss about Controlled drug delivery system with their polymers										
BP704TC02	Integrate the study of Microencapsulation, Mucosal and Implantable drug delivery systems										
BP704TC03	Summarize the knowledge formulation of Transdermal, Gastroretentive and Nasopulmonary drug delivery system										
BP704TC04	Elaborate the concept of the targeted drug delivery system.										
BP704TC05	Explain the study of Ocular and Intrauterine drug delivery systems										
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP704TC01	3	1	2	2	1	2	1	1	1	1	2
BP704TC02	3	1	2	2	-	2	1	1	1	1	2
BP704TC03	3	1	2	2	-	2	1	1	1	1	2
BP704TC04	3	1	2	2	-	2	1	1	1	1	2
BP704TC05	3	1	2	2	-	2	1	1	1	1	2
Average	3	1	2	2	1	2	1	1	1	1	2

Correlation level 1,2, 3 as defined below

1- Slight 2- Moderate 3 High

Course coordinator

(Mr. Velhal A.B.)

HOD

Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course Outcomes

Name of the course: Instrumental Methods of Analysis

Course Code: BP705P

Semester: VII

Class: IV B.Pharm

After completion of course students will be able to

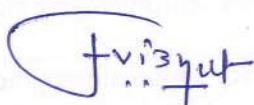
CO	Course Outcomes
BP705PC01	Understand and perform spectroscopic methods of analysis
BP705PC02	Understand and perform chromatographic methods of analysis
BP705PC03	Understand and perform nepheloturbidometric, fluorometric, flame photometric methods of analysis


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											
BP705PC01	3	3	2	1	1	2	2	1	1	1	2
BP705PC02	3	3	2	1	1	2	2	1	1	1	2
BP705PC03	3	3	2	1	1	2	2	1	1	1	2
Average	3	3	2	1	1	2	2	1	1	1	2

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Course co-ordinator
(Bhagwati A.M.)


NBA co-ordinator


HOD/Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Biostatistics Research Methodology

Course Code: BP801T

Semester: VIII

Class: Final Year B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP802T C01	Discuss the applications of Biostatistics such as Correlation, Mean, Median, Mode, Range and standard deviation.
BP802T C02	Discuss Regression, Probability theory, Sampling technique, Parametric tests and Non Parametric tests in context of research & biostatistics.
BP802T C03	Explain design of experiments for Phases of clinical trials and observational and experimental studies
BP802T C04	Accomplished the operation of M.S. Excel, SPSS, R and MINITAB, DoE (Design of experiment).
BP802T C05	Accomplished the statistical techniques in Design and Analysis of 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											
BP801T C01	3	3	3	2	3	3	3	3	3	1	3
BP801T C02	3	3	2	2	3	2	2	2	3	2	3
BP801T C03	3	3	3	2	3	2	2	3	3	2	3
BP801T C04	3	3	3	1	3	2	3	3	3	2	3
BP801T C05	3	3	2	2	2	3	2	2	3	2	3
Average	3	3	2.6	2	2.8	2.4	2.2	2.6	3	1.8	3
Average Roundup	3	3	3	2	3	2	2	3	3	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 Strongly

Course co-ordinator

HOD

Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Social and Preventive Pharmacy

Course Code: BP802T

Semester: VIII

Class: Final Year B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP802T C01	Explain about disease, health and health education and understand the knowledge of nutrition and hygiene.
BP802T C02	Discuss about prevention and control of various diseases
BP802T C03	Describe National health programs with objective, function and outcome
BP802T C04	Elaborate the National health intervention programme
BP802T C05	Illustrate about community services, rural sanitization and national urban health mission

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											
BP802T C01	3	3	3	2	3	3	3	3	3	1	3
BP802T C02	3	3	2	2	3	2	2	2	3	2	3
BP802T C03	3	3	3	2	3	2	2	3	3	2	3
BP802T C04	3	3	3	-	3	2	3	3	3	2	3
BP802T C05	3	3	2	2	2	3	2	2	3	2	3
Average	3	3	2.6	2	2.8	2.4	2.2	2.6	3	1.8	3
Average Roundup	3	3	3	2	3	2	2	3	3	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 Strongly

Course co-ordinator

Mr. Omkar Devade

HOD

Principal



NAAC- B⁺

YashodaShikshanPrasarakMandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Pharmaceutical Marketing Management

Course Code:BP803ET

Semester:VIII

Class: Fourth Year B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP803ETCO1	Describe the concept of pharmaceutical marketing
BP803ETCO2	Enumerate the concept of product decision in pharmaceutical industry
BP803ETCO3	Understand the various components of promotion techniques of pharmaceutical products
BP803ETCO4	Explain the different pharmaceutical marketing channels and describe the role and responsibility of professional sales representative
BP803ETCO5	Discuss the roles and responsibilities of pricing authorities in India and emerging concepts of marketing

CO-PO mapping

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP803ETCO1	3	3	3	2	3	3	3	3	3	3	3
BP803ETCO2	3	2	2	2	2	2	3	2	2	3	2
BP803ETCO3	3	3	3	2	3	3	3	3	3	3	3
BP803ETCO4	3	3	3	2	3	3	3	3	3	3	3
BP803ETCO5	3	2	2	2	1	2	3	2	3	1	2
Average	3	2.6	2.75	2	2.4	2.6	3	2.6	2.8	3	2.6
Average Roundup	3	3	3	2	2	3	3	3	3	3	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

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

HOD

Principal



Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501
Course outcomes

Name of the course: PV

Course Code: BP805T

Semester: VIII

Class: IV B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP805TC01	Discuss basic terminologies used in pharmacovigilance, adverse drug reactions, including establishment of pharmacovigilance programme.
BP805TC02	Explain drug dictionaries and coding of pharmacovigilance
BP805TC03	Discuss phases of safety data generation including ICH guidelines. Surveillance, methods and communication in pharmacovigilance and establishing pharmacovigilance programme
BP805TC04	explain safety data generation and ICH guidelines for pharmacovigilance
BP805TC05	Explain pharmacogenomics of adverse drug reactions, special population including CIOMS and CDSCO.

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											
BP805TC01	3	3	1	1	2	3	2	3	3	2	3
BP805TC02	3	3	3	1	2	3	1	2	2	1	3
BP805TC03	3	3	3	1	3	3	1	3	2	1	3
BP805TC04	3	3	3	1	3	3	3	3	2	1	3
BP805TC05	3	2	3	1	3	3	1	3	1	1	3
Average	3	2.8	2.6	1	2.75	3	1.6	2.8	2	1.2	3
Average Roundup	3	3	3	1	3	3	2	3	2	1	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

[Signature]
 Course co-ordinator
 (Prof. R.P.Bhoite)

[Signature]
 HOD
 (Dr. N. Purane)

[Signature]
 Principal
 (Dr. V.K. Redasani)



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Quality Control & Standardization of Herbals [TH] CourseCode:BP806ET

Semester: VIII

Class: -Final. Yr.B.Pharm

After completion of course students will be able to


CO	Course Outcomes
BP806ETCO1	Explain WHO guidelines for quality control of herbal drugs.
BP806ETCO2	Elaborate quality assurance in herbal drug industry.
BP806ETCO3	Appreciate EU and ICH guidelines for quality control of herbal drugs, Safety & efficacy of herbal medicines.
BP806ETCO4	Describe stability testing of herbals, Preparation of NDA, GMP requirments, D&C act provisions.
BP806ETCO5	Discuss Regulatory requirments of herbal medicines.

CO-PO mapping

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP806ETCO1	3	3	2	2	2	3	3	3	3	3	3
BP806ETCO2	3	2	2	2	2	3	3	3	3	2	3
BP806ETCO3	3	2	2	1	1	3	3	2	2	3	3
BP806ETCO4	3	3	2	2	1	3	3	3	2	3	3
BP806ETCO5	3	2	2	2	1	3	3	1	3	2	3
Average	3	2.4	2	1.8	1.4	3	3	2.4	2.6	2.6	3
Average Roundup	3	2	2	2	1	3	3	2	3	3	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Ms. J.S. Pingle
Course co-ordinator


HOD


Principal



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Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes

Name of the course: Computer Aided Drug Design

Course Code: BP807ET

Semester: VIII

Class: Final Year B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP807ETCO1	Elaborate stages of drug discovery and Lead development
BP807ETCO2	Explain Quantitative Structure Activity Relationship
BP807ETCO3	Summarize Molecular docking and virtual screening techniques
BP807ETCO4	Integrate Informatics & Methods in drug design including introduction to Bioinformatics, chemoinformatics. ADME databases, chemical, biochemical and pharmaceutical databases.
BP807ETCO5	Describe Molecular Modeling including introduction to molecular mechanics and quantum Mechanics, energy Minimization methods and conformational Analysis, global conformational minima determination.

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											
BP807ETCO1	3	3	1	1	1	3	3	2	3	3	3
BP807ETCO2	3	3	1	3	1	3	3	2	3	3	3
BP807ETCO3	3	3	3	3	1	3	3	2	3	3	3
BP807ETCO4	3	3	3	3	1	3	3	2	3	3	3
BP807ETCO5	3	3	3	3	1	3	3	2	3	3	3
Average	3	3	2.2	2.6	1	3	3	2	3	3	3
Average Roundup	3	3	2	3	1	3	3	2	3	3	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



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Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course outcomes (2022-23)

Name of the course: Cosmetic Science

Course Code: BP809ET

Semester: VIII

Class: Final Year B.Pharm

After completion of course students will be able to

CO	Course Outcomes
BP809ETC01	Explain about cosmetics and cosmeceuticals products
BP809ETC02	Demonstrate practical skills in the area of formulation science and analytical techniques required to scientifically design and develop various cosmetic products.
BP809ETC03	Demonstrate practical and analytical skills in the area of sunscreen and sun protection in context to skin hair and oral care.
BP809ETC04	Summerise principles of cosmetic evaluation
BP809ETC05	Describe basic cosmetic problems associated with skin, hair and oral care find out their causes.

CO-PO mapping

	PO1	PO 2	PO3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11
Code											
BP809ETC01	3	1	2	3	2	3	3	2	2	2	3
BP809ETC02	3	3	3	3	1	3	1	2	2	2	3
BP809ETC03	3	3	3	3	1	3	1	2	2	2	3
BP809ETC04	3	1	2	3	2	3	2	2	2	2	3
BP809ETC05	3	3	3	3	2	3	2	2	2	2	3
Average	3	3	3	3	1	3	2	2	2	2	3

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High

(Ms. N.D. Naikewadi)
(Name & Sign)

Course co-ordinator

(Dr. P.D. Sachav)
(Name & Sign)

Dr. P.D. Sachav
HOD

(Dr. V.K. Pedasani)
(Name & Sign)

Dr. V.K. Pedasani
Principal



NAAC- B⁺

Yashoda Shikshan Prasarak Mandal's
Yashoda Technical Campus,
Faculty of Pharmacy Wadhe, NH-4, Satara – 41501

Course Outcomes

Name of the course: Advanced Instrumentation Techniques

Course Code: BP811ET

Semester: VIII

Class: IV B.Pharm

After completion of course students will be able to

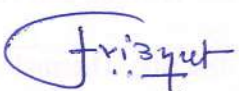
CO	Course Outcomes
BP811ETC01	Understand and explain NMR Spectroscopy and Mass Spectrometry
BP811ETC02	Understand and describe Thermal and XRD methods of analytical techniques
BP811ETC03	Understand and explain calibration and validation of analytical instruments
BP811ETC04	Understand and describe radio immune assay and extraction techniques of analysis
BP811ETC05	Understand and explain hyphenated techniques of analysis


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											
BP811ETC01	3	1	1	2	1	2	2	2	2	1	2
BP811ETC02	3	1	1	2	1	2	2	2	2	1	2
BP811ETC03	3	1	3	2	1	3	3	3	3	1	3
BP811ETC04	3	1	1	2	1	2	2	2	2	1	2
BP811ETC05	3	1	1	3	1	3	3	2	2	1	3
Average	3	1	1	2	1	2	3	2	2	1	2

Correlation level 1,2,3 as defined below

1- Slight 2- Moderate 3 High


Course co-ordinator
(Bhagwant A.M.)


NBA co-ordinator


HOD/Principal