



D. Y. PATIL EDUCATION SOCIETY'S
(DEEMED TO BE UNIVERSITY)
D. Y. PATIL COLLEGE OF PHARMACY
KADAMWADI, KOLHAPUR

PROGRAM OUTCOMES (POs)

1. **Pharmacy Knowledge:** An ability to acquire, demonstrate, core and basic knowledge of Pharmaceutical and Life Sciences.
2. **Planning Abilities:** An ability to develop, implement, effectively plan and organize work using time management, resource management, delegation skills and organizational skills to achieve goals in specified timeline.
3. **Problem Analysis:** An ability to identify, analyze, interpret data and take appropriate decision to solve problems related to routine Pharmacy Practices by applying acquired knowledge.
4. **Modern Tool Usage:** An ability to understand, choose and utilize Modern techniques and computing tools for Pharmacy practices by considering constraints.
5. **Leadership Skills:** An understanding of pharmaceutical management principles and apply these to one's own work, as a member and leader in a team, to manage projects to facilitate improvement in social health and well-being.
6. **Professional Identity:** Ability to recognize, analyze and communicate Pharmacy professional values as a healthcare promoter.
7. **Pharmaceutical Ethics:** Ability to understand and use professional, ethical, legal, social issues and responsibilities for well-being of the society.
8. **Communication:** An ability to comprehend, write reports, present and document to communicate effectively for exchange of professional information to Pharmacy community and society.
9. **The Pharmacist and Society:** An ability to overcome the societal, health and legal problems by providing better pharmaceutical care relevant to the Pharmacy profession.
10. **Environment and Sustainability:** An ability to recognize the impact of the professional Pharmaceutical solutions in social and environmental circumstances for sustainable development.
11. **Life-Long Learning:** An ability to recognize the need to engage in continuous Professional development by taking in consideration timely feedback and technological changes for lifelong learning process.


Principal

D. Y. Patil College of Pharmacy
Kadamwadi, Kolhapur





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Name of the Subject: Pharmaceutics (Theory)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Illustrate different unit operations in details of size reduction, mixing etc
CO2	Describe types of packaging material, pharmaceutical aids & preservatives
CO3	Explain different dosage forms, immunological products and summarize advantage & disadvantage of pharmaceutical aids & dosage form
CO4	Understand pharmaceutical manufacturing plant in terms of QA & QC

B) CO-PO MATRIX

Pharmaceutics	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO 1	3	1	2	2	2	1	1	2	1	-	2
	CO 2	3	2	2	2	1	1	2	2	1	-	2
	CO 3	3	2	2	2	2	2	2	2	1	3	2
	CO 4	3	2	2	2	1	2	1	2	1	1	2

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Name of the Subject: Pharmaceutics (Practical)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Design the label with the necessary product and patient information
CO2	Formulate the dosage form and dispense in an appropriate container
CO3	Perform the basic quality control tests for the common dosage forms

B) CO-PO MATRIX

Pharmaceutics	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO 1	3	1	2	2	2	1	1	2	1	-	2
	CO 2	3	2	2	2	1	1	2	2	1	-	2
	CO 3	3	2	2	2	2	2	2	2	1	3	2

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Name of the Subject: Pharmaceutical Chemistry (Theory)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Describe the chemical class, structure and chemical name of the commonly used drugs and pharmaceuticals of both organic and inorganic nature.
CO2	Discuss the pharmacological uses, dosage regimen, stability issues and storage conditions of all such chemical substances commonly used as drugs.
CO3	Describe the quantitative and qualitative analysis, impurity testing of the chemical substances given in the official monographs.
CO4	Identify the dosage form & the brand names of the drugs and pharmaceuticals popular in the marketplace.

B) CO-PO MATRIX

Pharmaceutical Chemistry	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO 1	3	1	2	2	2	1	1	2	1	-	2
CO 2	3	2	2	2	1	1	2	2	1	-	2	
CO 3	3	2	2	2	2	2	2	2	1	3	2	
CO 4	3	2	2	2	1	2	1	2	1	1	2	

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Name of the Subject: Pharmaceutical Chemistry (Practical)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Perform the limit tests for various inorganic elements and report.
CO2	Prepare standard solutions using the principles of volumetric analysis and test the purity of the selected inorganic and organic compounds against the monograph standards
CO3	Synthesize the selected chemical substances as per the standard synthetic scheme and perform qualitative tests to systematically identify the unknown chemical substances

B) CO-PO MATRIX

Pharmaceutical Chemistry	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO 1	3	1	2	2	2	1	1	2	1	-	2
	CO 2	3	2	2	2	1	1	2	2	1	-	2
	CO 3	3	2	2	2	2	2	2	2	1	3	2

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Name of the Subject: Pharmacognosy (Theory)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Define Pharmacognosy, express its history, scope and current status, explain different classification of drugs and study various adulterants method.
CO2	Explain distribution, isolation, therapeutic activity, application of various secondary metabolites and biological source of crude drugs of different categories.
CO3	Express the uses of plant fibres as surgical dressing and explain principles of alternative systems of medicines and role of medicinal plants in national economy.
CO4	Apply the uses of herbs in nutraceuticals and cosmeceuticals and analyse phytoconstituents.

B) CO-PO MATRIX

	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pharmacognosy	CO 1	3	1	2	2	2	1	1	2	1	-	2
	CO 2	3	2	2	2	1	1	2	2	1	-	2
	CO 3	3	2	2	2	2	2	2	2	1	3	2
	CO 4	3	2	2	2	1	2	1	2	1	1	2

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Name of the Subject: Pharmacognosy (Practical)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Identify the given crude drugs based on the morphological characteristics.
CO2	Perform a transverse section and describe the anatomical characteristics of the given crude drug under microscopical conditions
CO3	Demonstrate the physical and chemical tests to evaluate the given crude drugs.

B) CO-PO MATRIX

Pharmacognosy	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO 1	3	1	2	2	2	1	1	2	1	-	2
	CO 2	3	2	2	2	1	1	2	2	1	-	2
	CO 3	3	2	2	2	2	2	2	2	1	3	2

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Name of the Subject: Human Anatomy and Physiology (Theory)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Explain cellular and tissue level of organization.
CO2	Describe structural and functional unit of bones, respiratory and digestive system.
CO3	Discuss the blood fluid system in relation to composition, function and organ.
CO4	Discuss nervous system, urinary, glands and reproductive system as part of human anatomy and physiology.

B) CO-PO MATRIX

	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Human Anatomy and Physiology	CO 1	2	1	1	-	1	1	1	2	1	1	2
	CO 2	2	1	1	2	1	1	1	2	1	1	2
	CO 3	2	1	1	-	1	1	1	2	1	1	2
	CO 4	2	1	1	2	1	1	1	2	1	1	2

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Name of the Subject: Human Anatomy and Physiology (Practical)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Recognize and describe different types of tissues and bones.
CO2	Perform haematological experiments
CO3	Record human heart rate, pulse rate, blood pressure and respiratory volumes.

B) CO-PO MATRIX

Human Anatomy and Physiology	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO 1	1	1	2	1	1	1	2	1	2	2	2
	CO 2	1	1	2	1	1	1	2	1	2	2	2
	CO 3	1	1	2	1	1	1	2	1	2	2	2

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Name of the Subject: Social Pharmacy (Theory)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Explain in detail about preventive healthcare, public health and national health programs
CO2	Illustrate food and nutrition related health issues
CO3	Discuss about health education and health promotion
CO4	Understand the general roles and responsibilities of pharmacists in public health

B) CO-PO MATRIX

	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Social Pharmacy	CO 1	3	1	1	-	1	2	2	2	1	1	3
	CO 2	3	1	1	2	1	2	2	2	1	1	3
	CO 3	3	1	1	-	1	2	2	2	1	1	3
	CO 4	3	1	1	2	1	2	2	2	1	1	3

C. J. K.

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Name of the Subject: Social Pharmacy (Practical)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Describe the roles and responsibilities of pharmacists in various National health programs.
CO2	Design promotional materials for public health awareness.
CO3	Describe various health hazards including microbial sources.

B) CO-PO MATRIX

Social Pharmacy	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO 1	3	1	2	1	1	1	2	1	2	2	3
	CO 2	3	1	2	1	1	1	2	1	2	2	3
	CO 3	3	1	2	1	1	1	2	1	2	2	3

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Name of the Subject: Pharmacology (Theory)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Describe the basic concepts of pharmacokinetics and pharmacodynamics.
CO2	Enlist the various classes and drugs of choices for any given disease condition.
CO3	Advise the dosage regimen, route of administration and contraindications for a given drug.
CO4	Describe the common adverse drug reactions.

B) CO-PO MATRIX

	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Pharmacology	CO 1	3	1	2	1	1	2	1	1	2	1	2
	CO 2	3	1	1	2	1	1	1	1	2	1	2
	CO 3	3	2	2	1	1	2	1	1	2	1	2
	CO 4	3	2	1	2	1	1	1	1	2	1	2

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Name of the Subject: Pharmacology (Practical)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Study and report the local anaesthetic, mydriatic and mitotic effects of the given drug on the rabbit eye.
CO2	Choose appropriate animal experiment model to study the effects of the given drugs acting on the central nervous system and submit the report
CO3	Perform the effects of given tissues (simulated) on isolated organs / tissues and interpret the results and interpret the dose dependent responses of drugs in various animal experiment models

B) CO-PO MATRIX

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

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Name of the Subject: Community Pharmacy and Management (Theory)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Describe the establishment, legal requirements, and effective administration of a community pharmacy.
CO2	Professionally handle prescriptions and dispense medications.
CO3	Counsel patients about the disease, prescription and or non-prescription medicines.
CO4	Perform basic health screening on patients and interpret the reports in the community pharmacy settings

B) CO-PO MATRIX

Community Pharmacy and Management	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO 1	3	-	1	-	1	2	3	-	3	-	3
CO2	3	1	1	-	2	-	3	2	3	-	3	
CO3	3	1	1	-	2	2	3	2	3	-	3	
CO4	3	1	1	-	2	2	3	1	3	-	3	

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Name of the Subject: Community Pharmacy and Management (Practical)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Handle and fill prescriptions in a professional manner
CO2	Counsel patients on various diseases, minor ailments, prescription and or non-prescription medicines
CO3	Design and prepare patient information leaflets and perform basic health screening test

B) CO-PO MATRIX

Community Pharmacy and Management	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO1	3	-	1	-	1	2	3	-	3	-	3
	CO2	3	1	1	-	2	-	3	2	3	-	3
	CO3	3	1	1	-	2	2	3	2	3	-	3


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Name of the Subject: Biochemistry and Clinical Pathology (Theory)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Describe the functions of biomolecules and enzymes in the human system.
CO2	Explain the metabolic pathways of biomolecules in both physiological and pathological conditions.
CO3	Describe the principles of organ function tests and their clinical significances.
CO4	Determine the biomolecules / metabolites in the given biological samples, both qualitatively and quantitatively and describe the clinical pathology of blood and urine.

B) CO-PO MATRIX

Biochemistry and Clinical Pathology	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO1	3	-	1	-	1	2	3	-	3	-	3
	CO2	3	1	1	-	2	-	3	2	3	-	3
	CO3	3	1	1	-	2	2	3	2	3	-	3
	CO4	3	1	1	-	2	2	3	1	3	-	3


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Name of the Subject: Biochemistry and Clinical Pathology (Practical)


A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Qualitatively determine the biomolecules / metabolites in the given biological samples
CO2	Determine the normal and abnormal constituents in blood and urine samples and interpret the results of such testing

B) CO-PO MATRIX

Biochemistry and Clinical Pathology	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO1	3	-	1	-	1	2	3	-	3	-	3
CO2	3	1	1	-	2	-	3	2	3	-	3	


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Name of the Subject: Pharmacotherapeutics (Theory)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Help assessing the subjective and objective parameters of patients in common disease conditions.
CO2	Assist other healthcare providers to analyse drug related problems and provide therapeutic interventions.
CO3	Participate in planning the rational medicine therapy for common diseases.
CO4	Design and deliver discharge counselling for patients.

B) CO-PO MATRIX

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

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Name of the Subject: Pharmacotherapeutics (Practical)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Write SOAP (Subjective, Objective, Assessment and Plan) notes for the given clinical cases of selected common diseases.
CO2	Counsel the patients about the disease conditions, uses of drugs, methods of handling and administration of drugs, life-style modifications, and monitoring parameters.

B) CO-PO MATRIX

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

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Name of the Subject: Hospital and Clinical Pharmacy (Theory)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Explain about the basic concepts of hospital pharmacy administration.
CO2	Manage the supply chain and distribution of medicines within the hospital settings.
CO3	Assist the other healthcare providers in monitoring drug therapy and address drug related problems.
CO4	Interpret common lab investigation reports for optimizing drug therapy

B) CO-PO MATRIX

Hospital and Clinical Pharmacy (TH)	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO 1	3	2	-	-	-	1	1	-	1	-	2
CO 2	3	2	2	3	-	1	1	2	1	-	2	
CO 3	3	2	2	3	-	1	1	2	1	-	2	
CO 4	3	2	2	3	-	1	1	-	1	-	2	

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Name of the Subject: Hospital and Clinical Pharmacy (Practical)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Interpret the common laboratory reports and report suspected adverse drug reactions using standard procedures
CO2	Understand the uses and methods of handling various medical/surgical aids and devices.
CO3	Interpret and report the drug-drug interactions in common diseases for optimizing the drug therapy

B) CO-PO MATRIX

Hospital and Clinical Pharmacy (PR)	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO 1	3	2	-	-	-	1	1	-	1	-	2
	CO 2	3	2	2	3	-	1	1	2	1	-	2
	CO 3	3	2	2	3	-	1	1	2	1	-	2

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Name of the Subject: Pharmacy Law and Ethics (Theory)

A) COURSE OUTCOMES

Upon the completion of the course the students will be able to:

Code	Course Outcome
CO1	Describe the history and evolution of pharmacy law in India
CO2	Interpret the act and rules regulating the profession and practice of pharmacy in India
CO3	Discuss the various codes of ethics related to practice standards in pharmacy
CO4	Interpret the fundamentals of patent laws from the perspectives of pharmacy

B) CO-PO MATRIX

Pharmacy Law and Ethics	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO 1	3	-	1	-	1	2	3	-	3	-	3
	CO 2	3	1	1	-	2	-	3	2	3	-	3
	CO3	3	1	1	-	2	2	3	2	3	-	3
	CO 4	3	1	1	-	2	2	3	1	3	-	3

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