

Chalapathi Institute of Pharmaceutical Sciences

(AUTONOMOUS)

Chalapathinagar, Lam, Guntur-34

Accredited with 'A+' Grade by NAAC

Accredited by NBA (B.Pharmacy)



All India 77 th Rank 2022



LABORATORY MANUAL MEDICINAL CHEMISTRY- III (BP 607P)

Name :

Register No :

Course :

Year/ Semester :



CHALAPATHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(AUTONOMOUS)

VISION:

To inculcate excellence in various fields of pharmacy, mould the institution as centre of excellence in terms of academics and advanced research.

MISSION:

Committed to impart quality pharmacy education and research to meet global standards

QUALITY POLICY:

Chalapathi Institute of pharmaceutical sciences is committed to impart quality pharmacy education to the growing needs of the society by implementing quality management system on a continual contact basis and continually improved services.

We shall protect the interest of our students and prepare them to meet growing challenges with increased ability to serve the nation and society.

PROGRAMME OUTCOMES (PO's)

PO1	Pharmacy Knowledge: Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioural, social, and administrative pharmacy sciences; and manufacturing practices.
PO2	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 fulfilment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and wellbeing.
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).

PROGRAMME EDUCATIONAL OBJECTIVES (PEO's)

PEO1	Proficiency: Programme encompasses the students with profound functional knowledge in core subjects of pharmaceutical sciences like pharmaceutical chemistry, pharmaceutical analysis, pharmaceutics, pharmacognosy, pharmacology and pharmacy practice. This enables students to be competent enough and apply these tools in pharmaceutical and health care industries, research/clinical laboratories, hospitals and community pharmacies for overall maintenance of public health.
PEO2	Practicability (Practical aptitude): Implementation of innovative teaching learning methodologies with visual aids/ computer aided tools empowers the students in understanding the concepts with clarity and transparency. Students are trained in handling sophisticated equipment and in their troubleshooting procedures, problem based learning which makes them to apply the learned theoretical concepts to real time applications and meet the current pharmaceutical industrial demand.
PEO3	Lifelong learner (Liaisons): To develop globally accepted competent students in terms of punctuality, amicability, communication skills and self learning. Students are encouraged to participate in class room seminars, group discussions, exhibitions, quizzes, conferences, symposia, seminars, workshops and health care programs. This enables the students with specific hard skills, capable of understanding the most advanced technologies, research and can integrate this knowledge and skills with contemporary needs of the society.
PEO4	Collaborator: To inculcate collective learning, knowledge sharing and knowledge transfer through their involvement in interdisciplinary research activities and to improve leadership, team work and managerial skills which helps them to play influential roles either in an organisation or in community.
PEO5	Professionalism: To promote the development of scholarly thinking, professional identity and ethics among the students for their further professional growth either in the pharmaceutical and health care industries or to pursue higher studies and research.

PO7	Pharmaceutical Ethics: Honour personal values and apply ethical principles in professional and social contexts. Demonstrate behaviour 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.

Course Name : Medicinal Chemistry - III (Practical)

Course code : BP 607 P

C607.1	To recall the basic requirements for synthesis of drugs.
C607.2	To explain the principle and method of preparation of drugs.
C607.3	To choose the appropriate method for assay of drugs
C607.4	To make use of microwave technique for synthesis of drugs
C607.5	To explain the drawing of chemical structures and reactions using chemdraw
C607.6	To determine the physicochemical properties of drugs using drug design software.

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Chalapathinagar, Lam, Guntur-34

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M.PHARMACY SYLLABUS (ALL BRANCHES)

Name :

Register No :

Course :

Year/ Semester :

Chalapathi Institute of Pharmaceutical Sciences

(AUTONOMOUS)

Accredited with 'A' Grade by NAAC

ISO 9001 : 2015 Certified Institution

Chalapathinagar, Lam, Guntur-34



B.PHARMACY SYLLABUS (2017 EAMCET BATCH)

3419

Register No
Course
Semester

PROGRAMME OUTCOMES (PB's)

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BP 203 T

BP203T-BIOCHEMISTRY THEORY (45 HOURS)

Scope: Biochemistry deals with complete understanding of the molecular levels of the chemical process associated with living cells. The scope of the subject is providing biochemical facts and the principles to understand metabolism of nutrient molecules in physiological and pathological conditions. It is also emphasizing on genetic organization of mammalian genome and hetero & autocatalytic functions of DNA.

Objectives: Upon completion of course student shall be able to

1. Understand the catalytic role of enzymes, importance of enzyme inhibitors in design of new drugs, therapeutic and diagnostic applications of enzymes.
2. Understand the metabolism of nutrient molecules in physiological and pathological conditions.
3. Understand the genetic organization of mammalian genome and functions of DNA in the synthesis of RNAs and proteins.

Course Outcome:

C203.1	To remember the properties, significance and metabolic reactions of carbohydrates, lipids, nucleic acids, proteins and amino acids
C203.2	To understand the metabolism of carbohydrates and process of electron transport and ATP formation
C203.3	To apply the concept of catalytic activity and enzyme inhibition in design of new drugs, diagnostic and therapeutic applications of enzyme
C203.4	To distinguish the process of DNA replication, transcription and translation
C203.5	To appraise the causes, manifestations and diagnosis of metabolic disorders
C203.6	To discuss the metabolism of nucleic acids, lipids and amino acids

Course Content:

Chapter / Topic	Duration (Hrs.)	References
UNIT I • Biomolecules Introduction, classification, chemical nature and biological role of carbohydrate, lipids, nucleic acids, amino acids and proteins. • Bioenergetics Concept of free energy, endergonic and exergonic reaction, Relationship between free energy, enthalpy and	08	1. Biochemistry, U.Satya narayana and U.Chakrapani, 4 th edition, Elsevier & Books and allied Pvt Ltd., 2013, Chapter.1, 2, 3, 4 and 5. 2. A text book of Biochemistry, AVSS Rama Rao, 9 th edition, UBS publishers and distributors, 2004, Chapter.15

II/IV B.PHARMACY - 4th SEMESTER
BP408 P - PHARMACOLOGY-I
(PRACTICAL) 60 Hours

Course Outcome :

C408.1	To learn about basic instruments, common laboratory animals used in experimental pharmacology and to organize animal house as per the CPCSEA guidelines.
C408.2	To demonstrate the common laboratory techniques like routes of administration, blood withdrawal, anesthetics and euthanasia used for animal studies
C408.3	To interpret the effects of various drugs on rabbit eye and ciliary motility of frog oesophagus in correlation with humans
C408.4	To analyse the effect of drugs acting as enzyme inducers, skeletal muscle relaxants and affecting locomotor activity in laboratory animals
C408.5	To evaluate the stereotype and anticonvulsant activity of drugs in rats/mice
C408.6	To predict various screening models for anticonvulsant and anxiolytic activity

Course Content:

Expt. No.	Name of the Experiment	Duration	References
1	Introduction to experimental pharmacology	3 hrs	Hand book of Experimental Pharmacology - S.K.Kulkarni; 3 rd edition; Vallabh Prakashan publishers; Exp. No.:1
2	Commonly used instruments in experimental pharmacology	6 hrs	Hand book of Experimental Pharmacology - S.K.Kulkarni; 3 rd edition; Vallabh Prakashan publishers; Exp. No.:1
3	Study of common laboratory animals	6 hrs	Screening methods in Pharmacology - N.S. Parmar; 1 st edition; Narosa publishers; Exp. No.:3.
4	Maintenance of laboratory animals as per CPCSEA guidelines	3 hrs	Hand book of Experimental Pharmacology - S.K.Kulkarni; 3 rd edition; Vallabh Prakashan publishers; Exp. No.:2.
5	Common laboratory techniques. Blood withdrawal, serum and plasma separation, anesthetics and euthanasia used for animal studies.	6 hrs	Drug discovery and evaluation, pharmacological assays; H. Gerhard Vogel; 2 nd edition; Chapter Q.

CHALAPATHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(AUTONOMOUS)

CHALAPATHI NAGAR, LAM, GUNTUR, (A.P.) - 522 034.

Ph : +91 - 0863 - 2524124, 2524125

Fax : 0863 - 2524123



AY : 2022 - 2023

Batch : 2022 - 2024

M. PHARMACY — PHARMACEUTICS

STUDENTS ATTENDANCE REGISTER

CLASS : I/II M. Pharmacy I Semester

SUBJECT : Drug delivery systems [MPH102T]

TEACHERS : Pharmaceutics Practical- I [MPH105P]

GVR/KS/VP

COURSE OUTCOMES

Course Name: Drug Delivery Systems (Theory)	
Course Code: MPH1102T, Year of Study: 1st M. Pharmacy 1st Semester	
C102.1	To recall the basic concepts of sustained release, controlled release, polymer science and personalized medicine.
C102.2	To explain (impart) the principles and fundamentals of controlled drug delivery systems, protein-peptide drug delivery and vaccine drug delivery systems.
C102.3	To (train) develop the formulations of gastro retentive, ocular, transdermal, protein-peptide and vaccine drug delivery systems.
C102.4	To analyze the formulations of gastro retentive and ocular drug delivery systems.
C102.5	To assess the transdermal and protein-peptide drug delivery systems.
C102.6	To evaluate the formulated vaccine drug delivery systems.

Faculty : Dr. Pallavi Vadlamudi, Associate Professor
Mrs. Ch. Sai Charitha, Assistant Professor

NOVEMBER	DECEMBER
<ul style="list-style-type: none"> * Sustained and Controlled Release. * Personalized medicine * 3D Printing 	<ul style="list-style-type: none"> * Pharmacogenetics * Polymer science * Rate controlled drug delivery.
JANUARY	FEBRUARY
<ul style="list-style-type: none"> * Gastro retentive drug delivery * Modulation of GI transit * Revision 	<ul style="list-style-type: none"> * Buccal drug delivery * Ocular drug delivery system. * Protein peptide drug delivery
MARCH	APRIL
<ul style="list-style-type: none"> * Transdermal drug delivery * Vaccine drug delivery Revision 	Pallavi Vadlamudi

**M.PHARMACY PROGRAMME
PHARMACEUTICS (MPH)**

PROGRAMME OUTCOMES (PO's)

PO 1	Scientific knowledge: To apply the scientific and technological principles to design, develop effective pharmaceutical dosage forms and drug delivery systems for better therapeutic results.
PO 2	Technological applications: To utilize technical knowledge and identify any factors affecting the quality of pharmaceutical production.
PO 3	Modern tool usage: Learn, select, apply appropriate methods, procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.
PO 4	Entrepreneurship: To understand the basics of establishing and management of pharmaceutical enterprise.
PO 5	Practical skills: To gain practical expertise in formulating and evaluating various novel drug release systems for minor ailments to major diseases.
PO6	Applied science: To employ contemporary scientific knowledge viz., pharmacology, biotechnology for designing disease-centric pharmaceuticals.
PO 7	Computational and statistical methodologies: Applying and utilizing the statistical tools with the aid of computer software to optimize the formulations.
PO 8	Pharmaceutical ethics: To respect personal values and apply ethical principles in professional and social contexts. Demonstrate behavior that recognizes cultural, 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.
PO 9	Environment and sustainability: To understand, protect and cooperate environmental concerns for sustaining biodiversity.
PO10	Life-long learning: To develop the habit of updating knowledge from time to time to meet industrial demands and social needs for having a fruitful career.

**PROGRAMME OUTCOMES (PO's)**

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P010	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.
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Chalapathi Nagar, Lam, Guntur-522034



CALENDAR OF EVENTS (2022-2023)





CHALAPATHI
INSTITUTE OF PHARMACEUTICAL SCIENCES
AUTONOMOUS

(Affiliated to ACHARYA NAGARJUNA UNIVERSITY)

Accredited by NAAC with 'A+' Grade and Accredited by NBA (B.Pharmacy)

Programme : B. Pharmacy
Course : Physical Pharmaceutics - I
Code : BP 302 T
Academic Year : 2022-2023
Year & Sem : 2nd Year & 3rd Sem
Faculty : Dr. Pallavi Vadlamudi, Professor
Mrs. S.Jyotsna Rani, Assistant Professor
Mr.MD.Mustaq, Assistant Professor
Department : Pharmaceutics

Suresh
Head of the Department
Head of the Department
Department of Pharmaceutics
Chalapati Institute of Pharmaceutical Sciences
LAM GUNTUR-522 034



CHALAPATHI INSTITUTE OF PHARMACEUTICAL SCIENCES
(AUTONOMOUS)

Programme: Pharm.D

PROGRAMME OUTCOMES (PO's)

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Display of COs, POs, PEOs, PSOs in Website

The image displays two screenshots of the Chalapati Institute of Pharmaceutical Sciences website. The top screenshot shows the main navigation menu and a central banner with accreditation information. The bottom screenshot shows a detailed view of the 'PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)', 'PROGRAMME LEARNING OBJECTIVES (PLOs)', and 'PROGRAMME SPECIFIC OUTCOMES (PSOs)' for the B.Pharmacy, M.Pharmacy, and Pharm.D. programs.

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ISO 9001:2015 Certified Institute

NAAC ACCREDITATION LETTER

COMMITTED TO IMPART QUALITY PHARMACY EDUCATION AND RESEARCH TO MEET GLOBAL STANDARDS

CLPT STUDENT AWARDED BY FORMER PRESIDENT A.P.JABBU, SALAM

ACADEMIC CALENDAR

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) - B PHARMACY, M PHARMACY and PHARM.D

PROGRAMME LEARNING OBJECTIVES (PLOs) - B PHARMACY, M PHARMACY and PHARM.D

PROGRAMME SPECIFIC OUTCOMES (PSOs) - B PHARMACY, M PHARMACY and PHARM.D

COURSE OUTCOMES - B PHARMACY, M PHARMACY and PHARM.D

INNOVATIVE TEACHING METHODS

E-LEARNING PORTAL

SERVICE AND CONDUCT RULES

CALENDAR OF EVENTS

ANNUAL REPORT 2020-21

POWERPOINT Presentations

EXAMINATION UPDATES

Latest News

Formulation Date of Grant - 2019/2023

Upcoming Events

Navigation Menu (Left):
HOME, About Us, Admission, News, Programmes, Departments, Research, Updates, Contact, Location

Navigation Menu (Bottom):
CONSTITUTION, Faculty, Non-Teaching Faculty, Committees, External Activities, Best Practices, Awards and Honours, Student Support, IPRC, IQAC, VRI, Publications, Frameworks, IPR Development Center, Research & Development, Business Unit, Jobs @ CLPT, Fee Structure, AICTE - EOH REPORTS, NBF DATA, MISCELL

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LECTURE HALL



PROGRAMME OUTCOME 101

101A FOUNDATIONAL KNOWLEDGE

Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences, pharmaceutical sciences, behavioural, social, and administrative pharmacy sciences, and manufacturing practices.

101B PLANNING SKILLS

Demonstrate effective planning skills, including time management, resource management, delegation and organisational skills. Develop and implement plans and organise work to meet deadlines.

101C PROBLEM SOLVING

Utilise the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyse, evaluate and apply information systematically and shall make defensible decisions.

101D INFORMATION SKILLS

Locate, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.

101E LEADERSHIP SKILLS

Understand and consider the human reaction to change, motivation, stress, leadership and team-building when planning changes required for fulfilment of practice, professional and societal responsibilities. Assume participatory roles as responsible officers or leadership roles when appropriate to facilitate improvement in health and wellbeing.

101F PROFESSIONALISM

Understand, analyse and communicate the value of their professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employees, employees).

101G ETHICAL DECISION MAKING

Recognise personal values and apply ethical principles in professional and social contexts. Demonstrate behaviour that recognises cultural and personal variability in values, communication and lifestyles. Use ethical frameworks to apply ethical principles while making decisions and take responsibility for the outcomes associated with the decisions.

101H 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.

101I REGULATORY COMPLIANCE

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.

101J ENVIRONMENTAL SUSTAINABILITY

Understand the impact of the professional pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for, sustainable development.

101K SELF-LEARNING

Recognise the need for, and have the preparation and ability to engage in independent and lifelong learning in the broader context of technological change. Seek advice and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

