

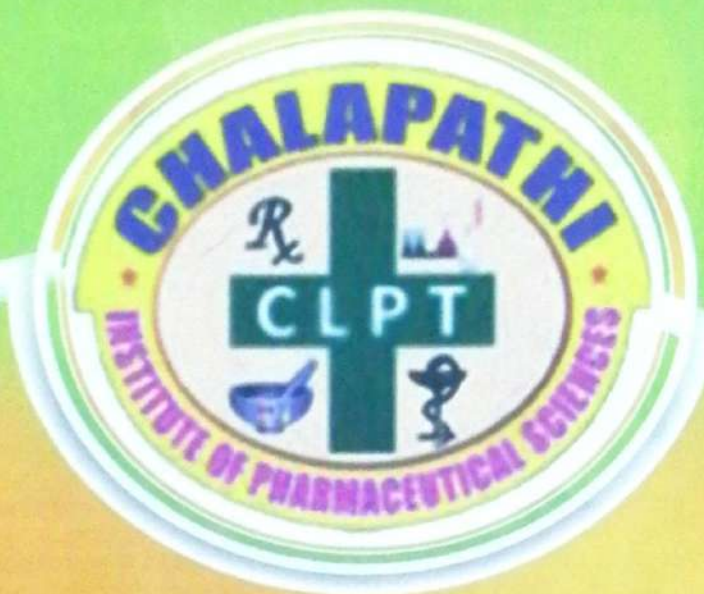
Chalapathi Institute of Pharmaceutical Sciences

(AUTONOMOUS)

Chalapathi Nagar, Lam, GUNTUR - 34

Accredited with 'A' Grade by NAAC

Accredited by NBA (B.Pharmacy)



LABORATORY MANUAL

PHARMACEUTICAL ORGANIC CHEMISTRY - II (BP 305P)

Name : :

Register No. :

Course :

Year/Semester :

PROGRAMME OUTCOMES (PO's) OF BACHELOR OF PHARMACY

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.
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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 : **Pharmaceutical Organic Chemistry – II (Practical)**

Code : **BP 305 P**

COURSE OUTCOMES

C 305.1	To recall the principles involved in the analysis of fixed oils.
C 305.2	To relate the experimental values of fat constants with reference values.
C 305.3	To experiment with preparation of organic compounds.
C 305.4	To explain the recrystallization and steam distillation techniques to purify organic compounds.
C 305.5	To plan for purification and characterization of synthesized organic compounds.

Chalapathi Institute of Pharmaceutical Sciences (AUTONOMOUS)

Chalapathinagar, Lam, Guntur-34

Accredited with 'A' Grade by NAAC



M.PHARMACY SYLLABUS (ALL BRANCHES)

Name :

Register No :

Course :

Year/ Semester :

Rama

PRINCIPAL

Chalapathi Institute of Pharmaceutical Sciences

(AUTONOMOUS)

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Chalapathinagar, Lam, Guntur-34



B.PHARMACY SYLLABUS (2017 EAMCET BATCH)

3469

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.
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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 : 2021 - 2022

Batch : 2021 - 2023

STUDENTS ATTENDANCE REGISTER

CLASS : I/II M. Pharmacy I Semester

SUBJECT : Drug Delivery systems [MPH102T]

TEACHERS : Dr. VP / Dr. STVR

Course Name: Drug Delivery Systems (Theory)

Course Code: MPH102T, Year of Study: 1stM.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.

	Unit 04 : Transdermal drug delivery
MARCH	APRIL
Unit 04 : Ocular drug delivery Unit 03 : Gastroretentive drug delivery systems.	Unit 04 : Protein peptide drug delivery systems. Unit 03 : Gastro retentive drug delivery systems. Unit 05 : Vaccine drug delivery
MAY	JUNE
Unit 05 : Vaccine drug delivery system Revision	Pallavi V 10/01/2022

**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.
P011	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.

4208

Calendar of events (2021-2022)

CHALAPATHI INSTITUTE OF PHARMACEUTICAL SCIENCES

(Autonomous)

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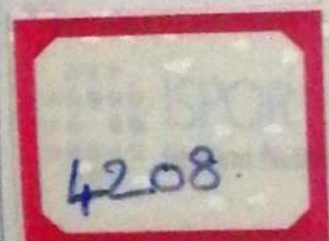
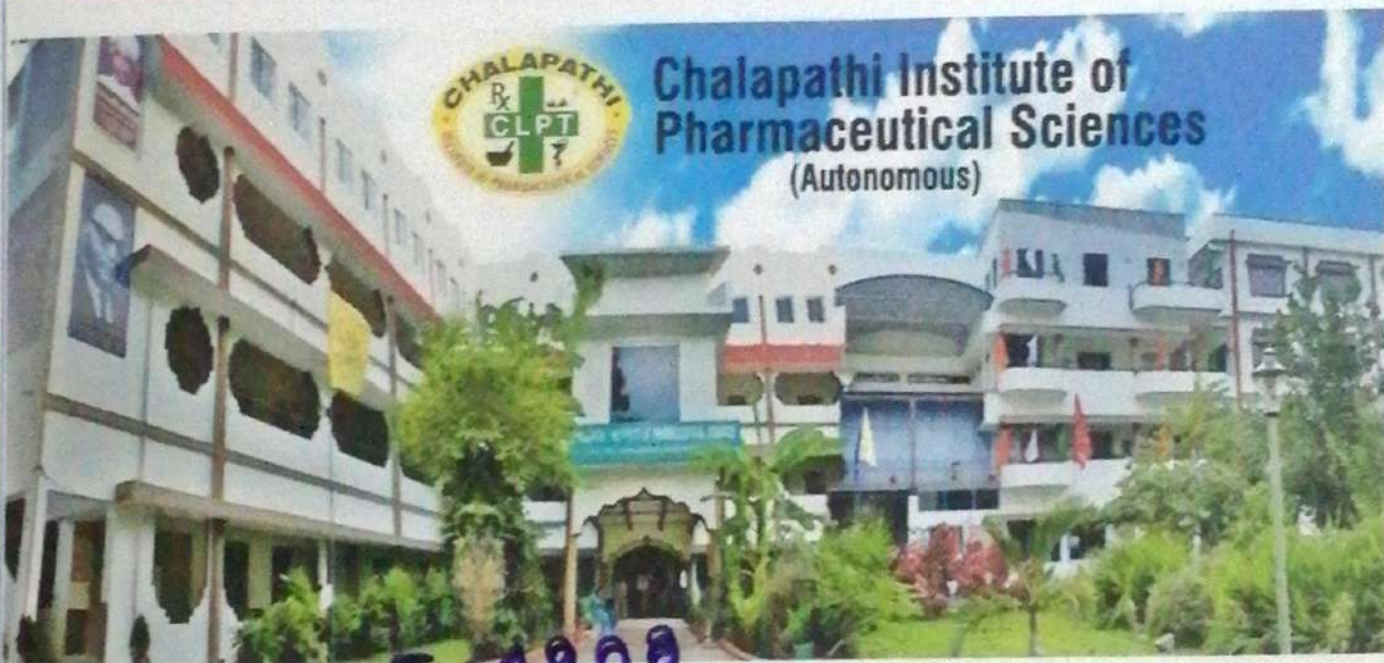
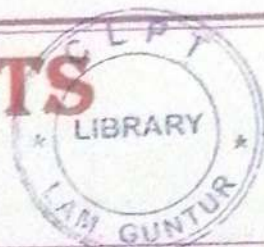
ISO 9001 : 2015 Certified Institution

Chalapathi Nagar, Lam, Guntur-522034



CALENDAR OF EVENTS

(2021-2022)



PROGRAMME OUTCOMES - B.PHARMACY

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CHALAPATHI INSTITUTE OF PHARMACEUTICAL SCIENCES

ACCREDITED BY 'NAAC' WITH 'A' GRADE

(AUTONOMOUS)

COURSE FILE

Programme: I/IV B.Pharmacy

Course: Human anatomy and physiology-II

Code: BP201T

Academic year: 2021 – 2022

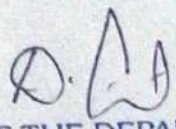
Semester: 2nd Semester

Faculty:

Ms. D. Nalini Devi, Assistant Professor

Ms. A. Sowjanya, Assistant Professor

Department: Pharmacology

 01/08/2022
HEAD OF THE DEPARTMENT
Department of Pharmacology
Chalapathi Institute of Pharmaceutical Sciences
(Autonomous)
Chalapathi Nagar, Larr., 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 screenshot displays the website of the Chalapathi Institute of Pharmaceutical Sciences (CLPT). The website is organized into a header, a main content area, and a sidebar.

Header: The header features the CLPT logo on the left, the institute's name "CHALAPATHI INSTITUTE OF PHARMACEUTICAL SCIENCES" in the center, and accreditation information: "AUTONOMOUS (Affiliated to ACHARYA NAGARJUNA UNIVERSITY) Accredited by NAAC with 'A+' Grade and Accredited by NBA (B.Pharmacy)". On the right, there is an ISO 9001:2015 Certified Institute logo.

Navigation Menu: A horizontal menu bar contains links: Home, About Us, Admission, Alumni, Programmes, Departments, Resources, Syllabus, Contact, and Location.

Main Content Area: The central part of the website features a large image of the institute's building. Below the image, it states "Committed to impart Quality Pharmacy Education and Research to meet Global standards". To the right of the building image, there is a section for "NAAC ACCREDITATION LETTER" and a "POWERPOINT Presentations" button. Below these, there are buttons for "EXAMINATION UPDATES" and "Latest News". A "Formulation" Date of Grant - 25/05/2023 is also displayed.

Left Sidebar: A vertical list of links is provided on the left side, including: CONSPECTUS, Faculty, Non-Teaching Faculty, Committees, Extension Activities, Best Practices, Awards and Honours, Student Support, Staff Support, IIEEC, IQAC, MoU, Publications, Placements, Skill Development Center, Research & Development, Students List, Jobs @ CLPT, Fee Structure, AICTE - EOA REPORTS, NIRF DATA, and MOOCS.

Right Sidebar: The right sidebar contains a "POWERPOINT Presentations" button, an "EXAMINATION UPDATES" button, and a "Latest News" section. The "Latest News" section includes a link to "in bulk and Pharmaceutical Formulation" Date of Grant - 25/05/2023. Below this, there is a "Upcoming Events" section.

Footer: The footer area contains a search bar, a language selector (ENG/IN), and a date/time display (17:23, 25-07-2023).

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LECTURE HALL



PROGRAMME OUTCOMES (POs)

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

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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

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