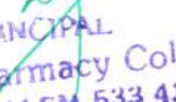


1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year 2024-25

3. DESIGN AND DEVELOPMENT OF CURRICULUM FOR ADD ON/ CERTIFICATE PROGRAMMES

Sl.No	Name of Teacher	Description	PageNo.
1	Dr.M.Karthik	Focus on Education , Early detection , and Prevention Strategies against Cervical and Breast cancer in Women– Add on course curriculum Design	18
2.	Dr.J.B.Narendra		15
3.	Ms.P.Ratna Kumari		17
4.	Dr.P.S.V.M.Deepika		16
5.	Mr. SK.Rafi	Allosteric Modulators and biased ligands- Add on course curriculum Design	1
6.	Ms. L.Parinaya Sri		2
7.	Ms.T.S.Sowkhyia		3
8	Mr.K.Jackriah		4
9.	Dr.G.Sowjanya	Microbial Biotechnology for Transforming Environmental residues into Valuable Products- Add on course curriculum Design	12
10.	Ms.G.Tejaswi	EthanoPharmacology and Traditional Medicinal System	14


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11.	Mr.D.Nagasen	Ethosomal Drug Delivery- Add on course curriculum Design	10
12.	Dr.C.H.S.P.Kumar		5
13.	Mr.T.Uday Kumar		6
14.	Mr.G.Ramakrshina		8
15.	Mrs.G.Srdevi		9
16.	Mrs.V.P.S.Sree		7
17.	Mrs.K.Pushpalatha		11
18.	Dr.D.Sathis Kumar	Dynamic excitation Methods: Understanding Spark and Flash Emission Spectroscopy for Material Characterisation- Add on course curriculum Design	19
19.	Dr.P.B.Rao		23
20.	Ms.B.Sujiya		24
21.	Ms.C.L.Madhavi		22
22.	Mrs. M.Sarika		20
23.	Ms.S.V.Swaroop		21
24.	Dr.P.S.S.Sai kiran	Recent Advances in Pre-Clinical Pharmacology - Add on course curriculum Design	27
25.	Mrs.G.Prsanthi		26
26.	Ms.K.SudhaRani		29
27.	Mrs.S.Nageswararao		25
28.	Mrs.T.Gowthami		28
29.	Dr.Y.PavanKumar	Interdisciplinary approaches to Patient care: The Evolving Role of Clinical Pharmacists- Add on course curriculum Design	13

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This is to certify that

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His / Her Contribution is highly appreciated.

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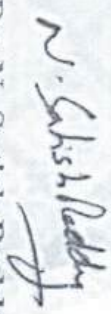
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had contributed in the Add on Course 2024-2025 on “Microbial Biotechnology for Transforming Environmental Residues into Valuable Products” organized by
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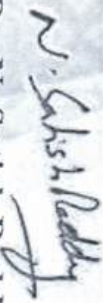
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This is to certify that


Mr. Y. PAVAN KUMAR
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His / Her Contribution is highly appreciated.

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This is to certify that

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organized by **ADITYA PHARMACY COLLEGE** from **05-08-2024** to **09-08-2024**.

His / Her Contribution is highly appreciated.

N. Sathish Reddy
Dr. N. Sathish Reddy

Vice-chairman



D. Sathish Kumar
Dr. D.SATHISH KUMAR

principal

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Dr. N. Sathish Reddy

Vice-chairman



Dr. D. Sathish Kumar
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Dr. N. Sausan Keady

Vice-chairman



Dr. D.SATHIS KUMAR

principal

ADITYA PHARMACY COLLEGE
SURAMPALEM-533 437



ADITYA PHARMACY COLLEGE (A)

Formerly known as Aditya Institute of Pharmaceutical Sciences and Research
Aditya Nagar, ADB Road, Surampalem, Kakinada District, Andhra Pradesh - 533437



Website: www.adityapharmacy.edu.in, Email: office@adityapharmacy.edu.in

A 5-DAY VALUE-ADDED CERTIFICATE COURSE TITLE: INTERDISCIPLINARY APPROACHES TO PATIENT CARE: THE EVOLVING ROLE OF CLINICAL PHARMACISTS DETAILED COURSE SYLLABUS

Day 1 – 11th February 2025

Topic: Clinical Pharmacist's Role in Handling Poisoning Cases and Drug Overdose

- Overview of Poisoning and Overdose management in Hospital Settings
- Role of Clinical Pharmacist in identification and initial management of Poison Cases
- Common Toxins and their Antidotes
- Monitoring and Supportive Care in poisoning cases
- Documentation, Communication, and follow-up in toxicology services

Day 2 – 12th February 2025

Topic: Cardiovascular Pharmacotherapy and Clinical Decision-Making

- Introduction to Cardiovascular Pharmacotherapy
- Role of Clinical Pharmacists in Cardiac Care units
- Antiplatelet and Anticoagulant Therapy Management
- Heart Failure Pharmacological management
- Interpretation of ECG and Clinical Decision-making in Cardiovascular Care

Day 3 – 13th February 2025

Topic: Clinical Pharmacist's Role in Nephrotherapeutics and Renal Drug Optimization

- Renal Pharmacokinetics and Dose Adjustments in CKD
- Monitoring Nephrotoxic Medications and Drug interactions
- Therapeutic Drug Monitoring (TDM) in Renal patients

- Managing Electrolyte Imbalances and Fluid therapy

- Polypharmacy and Rational Drug use in nephrology

Day 4 – 14th February 2025

Topic: Medication Matters: The Clinical Pharmacist's Role in Digestive Health

- Overview of gastrointestinal pharmacotherapy
- Common GI disorders and associated drug regimens
- Medication safety and drug-food interactions in GI care
- Counselling patients with GI disorders
- Role of Clinical Pharmacists in GI diagnostic procedures and follow-up

Day 5 – 15th February 2025

Topic: Clinical Pharmacist at the Heart of Patient Care: Bridging Therapeutics with Clinical Outcome:

- Multidisciplinary collaboration and Clinical Decision-making
- Clinical Pharmacist's role in improving healthcare outcomes
- Patient Counselling, Monitoring, and follow-up strategies
- Enhancing Therapeutic outcomes through Clinical Pharmacy services
- Case-based discussion on Integrated Care approach


Course Coordinator


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ACADEMIC YEAR: 2024-25

COURSE SYLLUBUS

COURSE NAME: "Allosteric Modulators and Biased Ligands"

COURSE OBJECTIVE:

(30 HRS)

- Understand the structural and functional differences between orthosteric and allosteric binding.
- Learn how receptor signaling bias influences pharmacological response.
- Explore real-world drug examples employing allosteric modulation and biased signaling.
- Gain skills in applying these concepts to rational drug design and therapeutic innovation.

Day I: 04-11-2024

Module I:

- Ligand types: agonist, antagonist, inverse agonist
- Signal transduction pathways (GPCRs, RTKs, ion channels)
- Orthosteric vs allosteric binding

Day 2: 05-11-2024

Module II:

- Allosteric site concept
- Positive and negative modulators
- Neutral ligands and their role
- Cooperativity and therapeutic ceiling

Day 3: 06-11-24

Module III:

- Biased signaling in GPCRs
- G protein vs β -arrestin pathway
- Biased agonists vs traditional agonists
- Clinical implications

Day 4: 07-11-2024

Module IV:

- Molecular docking basics
- Visualization of orthosteric and allosteric binding
- Introduction to tools: AutoDock, PyMOL, Discovery Studio
- Interpreting docking scores and RMSD values

Day 5: 08-11-24

Module V:

- FDA and EMA-approved allosteric and biased drugs
- Drug pipeline examples (CNS, cardiovascular, metabolic diseases)
- Regulatory and ethical considerations
- Career options: Clinical pharmacology, drug discovery, regulatory affairs

REFERENCE:

1. <https://www.pharmacareers.in/receptor-theories-and-classification-of-receptors-regulation-of-receptors/>
2. <https://www.chemistryjournals.net/archives/2022/vol4issue2/PartF/6-2-9-286.pdf>
3. <https://www.click2drug.org/>
4. https://www.rsc.org/images/David-Hall_tcm18-243490.pdf



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Course Outcomes:

- Understand receptor pharmacology beyond traditional agonist-antagonist models.
- Gain insight into how modern therapeutics exploit these mechanisms.
- Be able to interpret current research trends and drug development strategies involving allosteric and biased ligands.



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COURSE SYLLABUS

A 5-DAY VALUE-ADDED CERTIFICATION COURSE TITLED "ETHNOPHARMACOLOGY AND TRADITIONAL MEDICINE SYSTEMS"

Course Duration: 14th to 18th October 2024

ACADEMIC YEAR 2024-2025

Day 1 : 14-10-2024

MODULE 1 : Introduction to Ethnopharmacology: Foundations, Documentation Methods, and Ethical Practices

- Introduction to Ethnopharmacology: History, Definitions, and Significance
- Documentation Methods and Ethical Considerations in Ethnopharmacology

Day 2: 15-10-2024

MODULE 2 : Traditional Medicine Systems: From East to West - Exploring Chinese, Ayurvedic, and Unani Therapeutic Traditions

- Traditional Chinese Medicine: Theories, Pharmacopoeia, and Modern Applications
- Ayurvedic and Unani Medicine: Principles, Practices, and Comparative Analysis

Day 3: 16-10-2024

MODULE 3: Indigenous Medicine Systems Across Continents: American, African, and Australian Aboriginal Healing Traditions

- North and South American Traditional Medicine Systems and Plant Knowledge
- African and Australian Aboriginal Medicine: Cultural Healing Traditions

Day 4 : 17-10-2024

MODULE 4: Phytochemical Exploration: From Traditional Plants to Modern Pharmaceuticals - Discovery, Analysis, and Development

- From Plants to Pharmaceuticals: Phytochemistry and Drug Discovery Process
- Laboratory Techniques in Ethnopharmacology: Extraction, Analysis, and Testing

Day 5 : 18-10-2024

MODULE 5: Evidence-Based Traditional Medicine: From Clinical Validation to Integrative Healthcare Models

- Evidence-Based Evaluation of Traditional Medicines and Clinical Trials
- Integrative Healthcare Models: Bridging Traditional and Conventional Medicine, Integration



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Microbial Biotechnology for Transforming Environmental Residues into Valuable Products

Course Description:

This course explores the use of microbial biotechnology to convert environmental residues such as agricultural waste, industrial by-products, and municipal waste into high-value products including biofuels, bioplastics, enzymes, and organic acids. Students will learn the principles of microbial metabolism, genetic engineering, and process optimization, and examine real-world applications in sustainable waste management and circular bioeconomy. The course will also discuss technical, economic, and regulatory challenges, especially in resource-constrained settings.

Learning Objectives:

- Understand the types and sources of environmental residues and their impact on the environment.
- Gain knowledge of microbial metabolic pathways involved in bioconversion.
- Explore tools of microbial biotechnology including fermentation, metabolic engineering, and synthetic biology.
- Evaluate technologies for transforming waste into biofuels, bioplastics, and other value-added products.
- Analyze case studies demonstrating successful waste-to-product conversions.
- Assess the technical, economic, and regulatory challenges in scaling up biotechnological processes.
- Discuss sustainability and the role of microbial biotechnology in the circular economy.

Course Structure:

The course will be delivered through lectures, lab demonstrations, group discussions, and case-based learning. Guest lectures by industry experts and environmental scientists will provide practical insights. Students will participate in interactive activities including project proposals, presentations, and a capstone assessment.

Course Syllabus:

Module 1:

Day 1: Introduction to Environmental Residues & Microbial Biotechnology

- Types of environmental residues: agricultural, industrial, municipal
- Environmental challenges posed by waste accumulation
- Overview of microbial biotechnology: history, scope, and relevance
- Introduction to microbial metabolism and biodegradation



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Module 2:

Day 2: Microbial Conversion of Residues to Biofuels and Energy

- Microbial fermentation and anaerobic digestion
- Production of bioethanol, biogas, and biodiesel from residues
- Engineering microbes for enhanced biofuel production
- Case studies of industrial applications in energy recovery

Module 3:

Day 3: Bioplastics, Enzymes, and Organic Acids from Waste

- Microbial synthesis of bioplastics (e.g., PHAs) from organic waste
- Enzyme production for industrial use (e.g., cellulases, proteases)
- Microbial production of organic acids (lactic, succinic, acetic acids)
- Integrative biorefinery concepts

Module 4:

Day 4: Challenges, Opportunities, and Innovations

- Process optimization, scale-up, and bioreactor design
- Economic and regulatory constraints
- Waste-to-product strategies in low-resource settings
- Presentations on proposed bioconversion projects
- Emerging trends: synthetic biology, CRISPR, AI in bioprocessing

Module 5:

Day 5: Review Session and Final Exam, Certificates Distribution

- Comprehensive review and open discussion
- Capstone project evaluation
- Final exam
- Certification ceremony and closing remarks

References:

1. Singh, A., & Ward, O. P. (2004). Biodegradation and bioremediation. *Springer Science & Business Media*.
2. Chen, G. Q., & Patel, M. K. (2012). Plastics derived from biological sources: Present and future. *Chemical Reviews*, 112(4), 2082-2099.
3. Mohan, S. V., et al. (2016). Waste to bioenergy: A review on the recent conversion technologies. *Bioresource Technology*, 215, 2-12.
4. Timmis, K. N., et al. (2017). The contribution of microbial biotechnology to sustainable development goals. *Microbial Biotechnology*, 10(5), 984-987.
5. <https://www.unep.org/>
6. <https://www.fao.org/>
7. <https://www.biotechnologyforbiofuels.com/>



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Course Syllabus

COURSE NAME : FOCUS ON EDUCATION, EARLY DETECTION & PREVENTION STRATEGIES AGAINST CERVICAL AND BREAST CANCER IN WOMEN.

COURSE OBJECTIVES :

- * To understand concept of creating awareness of cancer in women.
- *To Know about Preventive methods of Breast and cervical cancer.
- *To know the strategies to overcome cervical and breast cancer in women.

Day 1 : 20/1/2025

MODULE 1:

- a.Introduction to cervical and breast Health: Together against cancer
- b.The pathophysiology of cervical and breast cancer
- c.Pharmacology of Anticancer drug
- d.Therapeutic management of cervical and breast cancer.

Day 2 : 21/1/2025

MODULE 2:

2. Problems occurred due to cervical and breast cancer.
 - a. Breast cancer : presence of breast lumps ,nipple discharge,visible skin changes, pain, and swelling in the breast area
 - b. cervical cancer : unusual vaginal bleeding, persistent pelvic pain, painful intercourse and abnormal vaginal discharge.
 - c. Advanced stages may results in metastasis to bones, liver, or lung leading to multipl- organ complications.

Day 3 : 22/1/2025

MODULE 3:

3. Strategies for Global COVID-19 Clinical Data management.
 - a. WHO Global Initiative on cervical cancer Elimination
 - b. Global breast cancer initiative (GBCI).

Day 4: 23/1/2025

MODULE 4:



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4. Monitoring and Imaging techniques

- a. Cervical Cancer Screening: Pap smear ,HPV DNA testing

Day 5 : 24/1/2025

MODULE 5:

5. Imaging: Colposcopy, pelvic MRI , transvaginal ultrasound

- a. Breast cancer : Mammography (gold standard) , breast ultrasound, MRI
PET-CT for staging and follow-up of metastatic disease.

REFERENCES :

1. <https://my.clevelandclinic.org/health/diseases/12216-cervical-cancer>.
2. <https://www.who.int/news-room/fact-sheets/detail/cervical-cancer>
3. <https://www.cancer.org/cancer/types/breast-cancer/about/what-is-breast-cancer.html>.

COURSE OUTCOMES:

- * To learn the strategies to detect & overcome Breast & Cervical cancers.
- * To learn the preventive measures & life style modifications of Breast and cervical cancers in women.


Course Coordinator:

P.S.V.H. Deepika




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ACADEMIC YEAR: 2024-25

COURSE SYLLBUS

**COURSE NAME: "Dynamic Excitation Methods: Understanding Spark and Flash
Emission spectroscopy for material characterization".**

COURSE OBJECTIVE:

(30 HRS)

- To understand the Investigating Material Composition of various materials with high precision using spark excitation source, spark stand or flash excitation techniques.
- To understand the Enhancing Spectroscopic Accuracy and sensitivity of spectroscopic measurements by optimizing dynamic excitation methods.
- To understand the Characterizing Microstructural Properties
- To understand the Developing Advanced Analytical Applications such as detecting trace elements or impurities in materials.

Day 1: 22-07-2024

Module 1: **Introduction & Brief History (Arc Spark Optical Emission spectrometry)**

- Bright light development from flame
- Comparison of spark and flame spectra lines

Day 2: 23-07-2024

Module 2: **Principle & Instrumentation**

- Interaction between electrical energy and metal sample
- Spark / Arc excitation source
- DC & AC Arc excitation source

Day 3: 24-07-2024

Module 3: **Working of OES**

- Excitation source cycle
- Detection System and Applications

Flash Emission Spectroscopy Introduction

Day 4: 25-07-2024

Module 4: **Historical Development of Supernova Method**

- General View of Super Nova
- Spectra

Day 5: 26-07-2024

Module 5: **Light Curves & Spectral Evaluation**

- Homogeneity
- Heterogeneity
- Applications



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COURSE SYLLABUS

“RECENT ADVANCES IN PRE-CLINICAL PHARMACOLOGY

MODULE -1 05-08-2024

Day 1: Introduction to pre-clinical pharmacology:

Speaker: Dr. P.S.S. Sai Kiran, Associate Professor, Aditya Pharmacy College, Surampalem

Introduction to pre-clinical pharmacology

Helps in determination of drug safety

Helps in determination of drug efficacy

MODULE -2 06-08-2024

Day 2: Emerging trends in pre-clinical drug discovery:

Speaker: Mr. S. Nageswara Rao, Associate Professor, Aditya Pharmacy College

Overview of the drug discovery pipeline.

Recent shifts in preclinical R&D

Role of AI in early drug screening

MODULE -3 07-08-2024

Day 3: Advanced Techniques in Pre-Clinical Pharmacology

Speaker: Mr. Mrs. G. Prasanthi Assistant Professor, Aditya Pharmacy College

Omics technologies in drug discovery

Single-cell analysis and spatial transcriptomics

Advancements in animal models for pharmacological research

MODULE -4 08-08-2024

Day 4: Translational Pharmacology:

Speaker: Mrs. T. Gowthami Assistant Professor, Aditya Pharmacy College, Surampalem

Bridging pre-clinical and clinical pharmacology

Designing translational studies

Regulatory considerations for IND submission




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Pharmacokinetic and pharmacodynamic modeling

MODULE -5 09-08-2024

Day 5: Emerging Trends and Technologies

Speaker: Mrs. M. Lalitha kala Assistant Professor, Aditya Pharmacy College, Surampalem

Artificial intelligence in drug discovery

3D cell culture models and organ-on-a-chip technologies

Advancements in drug delivery systems

Sustainability in pharmacological research

Integrating new technologies into pre-clinical studies



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COURSE SYLLABUS

Course Title: Ethosomes

Course Duration: 30 Hours

Academic Year: 2024-25

Course Description:

This add-on course provides an in-depth understanding of ethosomal drug delivery systems, focusing on their composition, mechanism of action, formulation techniques, characterization, and pharmaceutical applications. The course will also explore the advantages of ethosomes in transdermal and targeted drug delivery, addressing challenges and future advancements in this field.

Course Objectives:

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

- Understand the principles and significance of ethosomal drug delivery.
- Learn various formulation and preparation techniques for ethosomes.
- Study the characterization and evaluation methods of ethosomes.
- Explore the applications of ethosomes in pharmaceutical and cosmetic industries.
- Identify the challenges and future trends in ethosomal drug delivery.

Course Modules and Schedule:

Day 1: 09-09-2024

Module I: Introduction to Ethosomal Drug Delivery System

- Overview of novel drug delivery systems.
- Introduction to ethosomes and their significance.
- Composition and mechanism of action of ethosomes.




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Day 2: 10-09-2024

Module II: Formulation and Preparation of Ethosomes

- Various formulation techniques of ethosomes.
- Factors influencing ethosomal formulations.
- Optimization and stability considerations in ethosomal systems.

Day 3: 11-09-2024

Module III: Characterization and Evaluation of Ethosomes

- Particle size, morphology, and entrapment efficiency.
- In-vitro and ex-vivo evaluation techniques.
- Stability studies and quality control parameters.

Day 4: 12-09-2024

Module IV: Applications of Ethosomal Drug Delivery

- Role of ethosomes in transdermal and targeted drug delivery.
- Applications in pharmaceutical, cosmeceutical, and dermatological formulations.
- Case studies on marketed ethosomal formulations.

Day 5: 13-09-2024

Module V: Challenges and Future Perspectives

- Limitations and challenges in ethosomal drug delivery.
- Advances in ethosomal research and development.
- Future trends and commercial potential of ethosomal systems.

References:

1. Touitou, E., & Godin, B. (2000). *Ethosomes – Novel Vesicular Carriers for Enhanced Transdermal Delivery*. Journal of Controlled Release.
2. Verma, P., & Pathak, K. (2010). *Therapeutic and Cosmeceutical Potential of Ethosomes – A Review*. Journal of Advanced Pharmaceutical Technology & Research.
3. Mishra, D., Mishra, P.K., Dabadghao, S., & Jain, N.K. (2007). *Evaluation of Ethosomes as Efficient Carriers for Transdermal Delivery of Amphotericin B*. International Journal of Drug Delivery.

Course Coordinator



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