

**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 2023-24

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

Sl.No	Name of Teacher	Description	PageNo.
1	Dr.M.Karthik	Trends of antibiotic consumption after Covid-19 pandemic : Approach to further out breaks – Add on course curriculum Design	21
2.	Dr.J.B.Narendra		22
3.	Ms.P.Ratna Kumari		23
4.	Dr.P.S.V.M.Deepika		24
5.	Ms. L.Parinaya Sri	Forging Medical Frontiers Unleashing Novel heterocyclic architecture for advanced therapies- Add on course curriculum Design	1
6.	Mr. SK.Rafi		2
7.	Ms.T.S.Sowkhya		3
8	Ms.S.V.Swaroop	Anti-microbial Resistance and Machine learning: Challenges & Opportunities- Add on course curriculum Design	5
9.	Dr.G.Sowjanya		4
10.	Mr.D.Nagasen	Formulation and Evaluation of Transfersomes by using Rotary evaporator- Add on course curriculum Design	6
11	Dr.C.H.S.P.Kumar		10
12.	Mr.T.Uday Kumar		8
13.	Mr.G.Ramakrshina		7
14.	Mrs.G.Srdevi		9
15.	Mrs.V.P.S.Sree		11
16.	Dr.P.B.Rao	Strategic Management on Pharmaceutical Production- Add on course curriculum Design	12
17.	Ms.C.L.Madhavi		14
18.	Mrs. M.Sarika		13
19.	Ms.B.Sujiya		15
20.	Dr.P.S.S.Sai kiran	Navigating the drug discovery and development pipeline- Add on course curriculum Design	20
21.	Mrs.G.Prsanthi		17
22.	Mrs.M.Lalithakala		18
23.	Ms.K.SudhaRani		16
24.	Mrs.S.Nageswararao		19
25.	Dr.Y.PavanKumar	Vitality Blue print : A Journey of Optimal Youth Health- Add on course curriculum Design	25



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## CERTIFICATE OF CONTRIBUTION

This is to certify that

MS. L. PARINAYA SRI

(ADITYA PHARMACY COLLEGE)

had Contributed in the Training Program 2023 on

**“Forging Medical Frontiers: Unleashing Novel  
Heterocyclic Architecture for Advanced Therapies”**

organized by ADITYA PHARMACY COLLEGE from 09-10-23 to 13-10-2023.

His / Her Participation is highly appreciated.

*N. Satish Reddy*

Dr. N. SATISH REDDY

VICE-CHAIRMAN



Dr. D. SATHIS KUMAR  
PRINCIPAL

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*N. Satish Reddy*  
Dr. N. SATISH REDDY

VICE-CHAIRMAN

*Dr. D. Sathis Kumar*  
Dr. D. SATHIS KUMAR

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*Dr. D. Sathis Kumar*

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## CERTIFICATE OF CONTRIBUTION

This is to certify that

**Dr. G . Sowjanya**

(ADITYA PHARMACY COLLEGE)

has contributed in the Training Program 2024 on “Antimicrobial Resistance  
and Machine learning: Challenges & Opportunities”

organized by **ADITYA PHARMACY COLLEGE** from **01-04-2024 to 05-04-2024**

His / Her Contribution is highly appreciated.

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**DR. D. SATIS KUMAR**

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(ADITYA PHARMACY COLLEGE)

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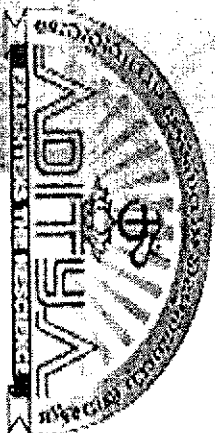
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**Mr.D.Nagsen**

(ADITYA PHARMACY COLLEGE)

had contributed in the Training Program 2023 on "Formulation and  
Evaluation of Transfersomes by using Rotary Evaporator"

organized by *ADITYA PHARMACY COLLEGE* from 11-09-2023 to 15-09-2023

His / Her Contribution is highly appreciated.

*N. Sathish Reddy*  
Dr. N. Sathish Reddy

Vice-chairman

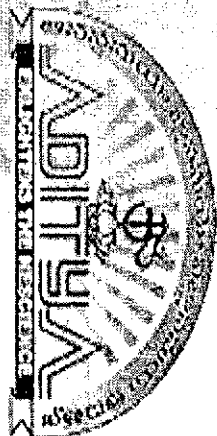


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Dr. N. Sathish Kumar

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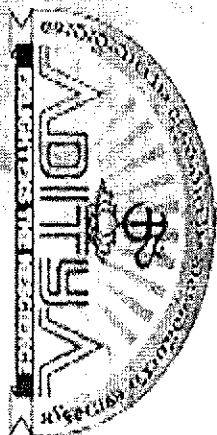
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Mr. T. Uday Kumar

(ADITYA PHARMACY COLLEGE)

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Dr. N. Sathu Reddy

Vice-chairman



Dr. D. SATHIS KUMAR

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**DR. N. SATISH KEDDY**  
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**Dr. N. Sankar Reddy**

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## CERTIFICATE OF CONTRIBUITION

This is to certify that

**Dr. P.BHASKAR RAO**

(ADITYA PHARMACY COLLEGE)

had contributed in the Training Program 2024 on “STRATEGIC  
MANAGEMENT IN PHARMACEUTICAL PRODUCTION”

organized by ADITYA PHARMACY COLLEGE from 19-02-2024 to 23-02-2024

His / Her Contribution is highly appreciated.

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**DR. N. SATISH REDDY**

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**DR. N. SATISH REDDY**

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**DR. N. SATISH REDDY**

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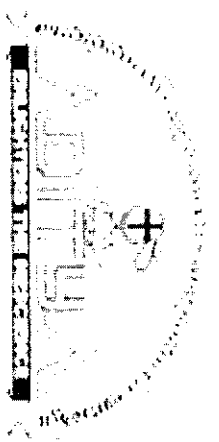


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*Dr. D. Sathis Kumar*  
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**(ADITYA PHARMACY COLLEGE)**

had contributed in the Training Program 2024 on "Navigating the drug discovery and development pipeline"

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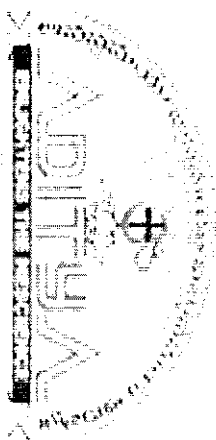
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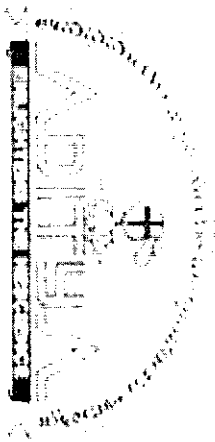
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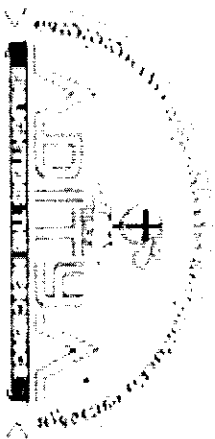
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**DR. D. SATHIS KUMAR**

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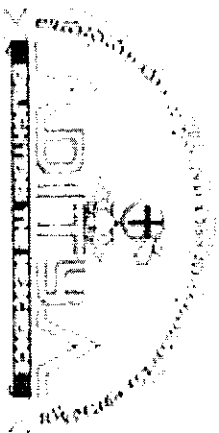
**DR. N. SATISH REDDY**

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**DR. D. SATHIS KUMAR**

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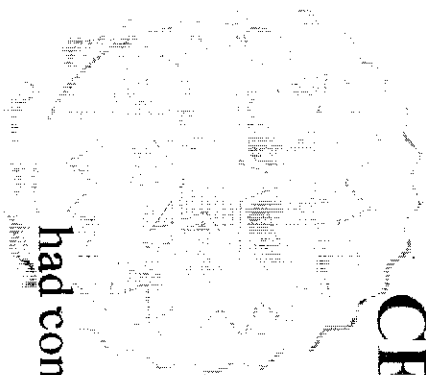


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**(ADITYA PHARMACY COLLEGE)**

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His / Her Contribution is highly appreciated.

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**DR. N. SATISH REDDY**

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## CERTIFICATE OF CONTRIBUTION

This is to certify that

Dr.M.Karthik

(ADITYA PHARMACY COLLEGE)

had contributed in the Training Program 2023 on "Trends of antibiotic consumption after covid-19 Pandemic : Approach to further outbreaks:"

organized by ADITYA PHARMACY COLLEGE from 26-12-2023 to 30-12-23

His / Her Contribution is highly appreciated.

*N. Satish Reddy*

DR. N. SATISH REDDY

VICE-CHAIRMAN



*DR. D. SATHIS KUMAR*  
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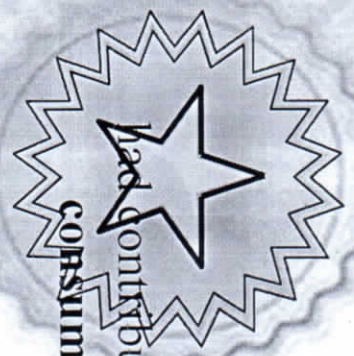
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This is to certify that

**Dr. J B NARENDRA**

(ADITYA PHARMACY COLLEGE)



had contributed in the Training Program 2023 on "Trends of antibiotic  
consumption after covid-19 Pandemic : Approach to further  
outbreaks:"

organized by **ADITYA PHARMACY COLLEGE** from **26-12-2023** to **30-12-2023**

His / Her Contribution is highly appreciated.

*N. Satish Reddy*

**DR. N. SATISH REDDY**  
VICE-CHAIRMAN



*DR. D. SATIS KUMAR*

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*N. Satish Reddy*

**DR. N. SATISH REDDY**

**VICE-CHAIRMAN**



*DR. D. Sathis Kumar*

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This is to certify that

**Dr.P..S.V.M.Deepika**

**(ADITYA PHARMACY COLLEGE)**

had contributed in the Training Program 2023 on "Trends of antibiotic consumption after covid-19 Pandemic : Approach to further

outbreaks:"

organized by **ADITYA PHARMACY COLLEGE** from 26-12-2023 to 30-12-23

His / Her Contribution is highly appreciated.

*N. Satish Reddy*

**DR. N. SATISH REDDY**

**VICE-CHAIRMAN**

*Dr. D. Sathis Kumar*

**DR. D. SATHIS KUMAR**

**PRINCIPAL**



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# 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](http://www.adityapharmacy.edu.in), Email: [office@adityapharmacy.edu.in](mailto:office@adityapharmacy.edu.in)

## CERTIFICATE OF CONTRIBUTION

This is to certify that

**Dr. Pavan Kumar Yanamadala**

(Associate Professor at Aditya Pharmacy College (A))

had contributed in the Value Added Program on “Vitality  
Blueprint: A Journey to Optimal Youth Health”

organized by **ADITYA PHARMACY COLLEGE (A)** from  
**27-02-2024 to 04-03-2024**

His contribution is highly appreciated.

*V. Satish Reddy*  
**Dr. N. Satish Reddy**

Vice-chairman

Aditya Educational Institutions



*Dr. D. Sathis Kumar*  
**Dr. D. Sathis Kumar**

Principal

Aditya Pharmacy College (A) **PRINCIPAL**  
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### Course Syllabus

**COURSE NAME : Trend of Antibiotic Consumption after the COVID-19 Pandemic:**

**Prevention Management.**

**COURSE OBJECTIVES :**

- \* To understand concept of Anti biotic resistance & Anti microbial Prescribing.
- \*To understand the Problems after COVID 19 infections.
- \*To know the strategies to overcome antibiotic resistance.

**DAY 1 : 26/12/2023**

**MODULE 1:**


1. Introduction to Antibiotic resistance Post COVID 19.
  - a. The Principles of Antimicrobial Prescribing
  - b. Pharmacology of Antimicrobials for Clinicians
  - c. Antimicrobial resistance for clinicians.
  - d. Community acquired infections like COVID 19.

**DAY 2 :27/12/2023**

**MODULE 2:**

2. Problems occurred after COVID 19 infection.
  - a. Causes post-COVID syndrome.
  - b. Do COVID vaccines prevent long COVID?
  - c. Breathing Issues, Heart problems, kidney damage after Post COVID 19 infection.



  
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**DAY 3 : 28/12/2023**

**MODULE 3:**

3. Strategies for Global COVID-19 Clinical Data management.
  - a. WHO Guideline Development Group for living clinical practice guidelines for COVID-19

**DAY 4 : 29/12/2023**

**MODULE 4:**

4. Monitoring and Imaging techniques post COVID 19.

**DAY 5 : 30/12/2023**

**MODULE 5**

5. Antimicrobial resistance impact on Post COVID 19.

**REFERENCES :**

1. <https://doi.org/10.1016/j.cmi.2022.12.006>.
2. <https://www.who.int/news/item/26-04-2024-who-reports-widespread-overuse-of-antibiotics-in-patients--hospitalized-with-covid-19>.

**COURSE OUTCOMES:**

- \* To learn the strategies to overcome antibiotic resistance
- \* To learn the preventive measures & life style modifications of post COVID scenario.

Course coordinator.



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## Antimicrobial Resistance and Machine Learning: Challenges & Opportunities

### Course Description:

This course will focus on the intersection of antimicrobial resistance (AMR) and machine learning (ML). It will explore the scientific basis of AMR, its impact on healthcare, and how ML can be used for improved diagnostics, treatment, and surveillance. The course will also discuss the challenges and opportunities of implementing ML solutions in real-world settings, especially in low- and middle-income countries.

### Learning Objectives:

- Gain a comprehensive understanding of antimicrobial resistance (AMR) and its emergence as a global health threat.
- Explore the mechanisms by which bacteria develop resistance to antimicrobial drugs.
- Analyse the impact of AMR on healthcare systems, including increased morbidity, mortality, and healthcare costs.
- Understand the fundamentals of machine learning and its potential applications in the field of AMR.
- Evaluate existing ML-based approaches for diagnostics, treatment optimization, and AMR surveillance.
- Critically assess the challenges associated with implementing ML solutions for AMR, including data quality, bias, and accessibility in LMICs.
- Explore future directions and ethical considerations in using ML to combat AMR.

### Course Structure:

The course will be delivered through a combination of lectures, discussions, case studies, and guest lectures from experts in the field. Students will have the opportunity to engage with the material through active learning activities such as presentations, and critical thinking exercises.

### Course Syllabus:

#### Module 1:

- **Day 1:** Introduction to Antimicrobial Resistance (AMR) & Impact of AMR on Healthcare Systems
  - Definition, causes, and global burden of AMR
  - Mechanisms of antimicrobial resistance
  - Increased morbidity, mortality, and healthcare costs
  - Challenges for developing countries



  
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## Module 2:

- **Day 2:** Introduction to Machine Learning (ML) & Machine Learning for AMR Diagnostics
  - Fundamentals of supervised and unsupervised learning
  - Common ML algorithms for classification and regression
  - ML approaches for rapid and accurate identification of pathogens
  - Case studies of successful implementations

## Module 3:

- **Day 3:** Machine Learning for Treatment Optimization & Machine Learning for AMR Surveillance
  - Predicting antibiotic susceptibility to guide treatment decisions
  - Reducing inappropriate antibiotic use
  - Real-time monitoring of resistance trends
  - Early detection of outbreaks

## Module 4:

- **Day 4:** Challenges and Opportunities in Implementing ML for AMR & Future Directions and Ethical Considerations in ML-based AMR Solutions.
  - Data quality and availability issues
  - Algorithmic bias and interpretability
  - Accessibility and affordability for LMICs
  - Presentations
  - Emerging trends in ML for AMR
  - Ethical considerations in data collection and algorithm development

## Module 5:

- **Day 5:** Review Session and Final Exam, certificates issue.

## References:

1. Aslam, B., Wang, W., Arshad, M. I., Khurshid, M., Muzammil, S., Rasool, M. H., Nisar, M. A., Alvi, R. F., Aslam, M. A., Qamar, M. U., Salamat, M. K. F., & Baloch, Z. (2018). Antibiotic resistance: a rundown of a global crisis. *Infection and drug resistance*, 11, 1645–1658. <https://doi.org/10.2147/IDR.S173867>.
2. Heaton, J. (2018). Ian goodfellow, yoshua bengio, and aaron courville: Deep learning: The mit press, 2016, 800 pp, isbn: 0262035618. *Genetic programming and evolvable machines*, 19(1), 305-307.
3. Tumpa, E. S., & Dey, K. (2022, April). A review on applications of machine learning in healthcare. In *2022 6th International Conference on Trends in Electronics and Informatics (ICOEI)* (pp. 1388-1392). IEEE.
4. <https://www.who.int/>.
5. <https://www.cdc.gov/>.
6. <https://www.nih.gov/>.



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**ACADEMIC YEAR: 2023-24**  
**COURSE SYLLABUS**

**COURSE NAME: “Formulation and evaluation of Transferosomes by using rotary evaporator”**

**COURSE OBJECTIVES:**

**(30 HRS)**

- To Understand the concept of transferosomes.
- To Understand the formulation and evaluation of transferosomes.
- To know the applications of transferosomes.

**Day 1: 11.09.2023**

**Module I:**

- Transferosomes introduction
- Various types of transferosomes

**Day 2: 12.09.2023**

**Module II:**

- Various types of Preparation methods of Transferosomes

**Day 3: 13.09.2023**

**Module III:**

- Formulation of Transferosomes

**Day 4: 14.09.2023**

**Module IV:**

- Evaluation of Transferosomes

**Day 5: 15.09.2023**

**Module V**

- Data analysis of Transferosomes

**REFERENCES:**

1. TRANSFERSOMES: A NOVEL TECHNIQUE FOR TRANSDERMAL DRUG DELIVERY | PharmaTutor
2. <https://www.researchgate.net/publication/328995149> TRANSFERSOME A RECENT APPROACH FOR TRANSDERMAL DRUG DELIVERY
3. Transferosomes: Advantages, Methods of Preparation, Applications (pharmacyinfo.com)
4. Opatha SAT, Titapiwatanakun V, Chutoprapat R. Transferosomes: A Promising Nanoencapsulation Technique for Transdermal Drug Delivery. *Pharmaceutics*. 2020 Sep 9;12(9):855. doi: 10.3390/pharmaceutics12090855. PMID: 32916782; PMCID: PMC7559928.

**Course Outcomes:**

- To learn the concept of transferosomes.
- To learn the formulation and evaluation of transferosomes.
- To know the applications of transferosomes.

  
**Course Coordinator**



  
**Principal**  
**Aditya Pharmacy College**  
**SURAMPALEM-533 437**



# ADITYA

## PHARMACY COLLEGE

(Formerly known as Aditya Institute of Pharmaceutical Sciences & Research)

(An AUTONOMOUS Institution)

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**ACADEMIC YEAR: 2023-24**

**COURSE SYLLBUS**

**COURSE NAME: "Strategic Management in Pharmaceutical Production".**

**COURSE OBJECTIVE:**

**(30 HRS)**

- To Understand the production function
- To Understand the strategic design of production, systems and process
- To know the applications of ergonomics in productivity

**Day 1: 19-02-2024**

**Module 1:**

- Pharmaceutical production operating management introduction
- Organization of production function in pharma industry

**Day 2: 20-02-2024**

**Module II:**

- Production planning and control
- Product selection including design, service, process, and technology
- Service facility

**Day 3: 21-02-2024**

**Module III:**

- Process and
- To understand product layout

**Day 4: 22-02-2024**

**Module IV:**

- Stores management

**Day 5: 23-02-2024**

**Module V**

- Inventory management

**REFERENCE:**

1. Strategic decision-making in the pharmaceutical industry: A unified decision-making framework  
<https://www.sciencedirect.com/science/article/abs/pii/S0098135418309645>
2. Strategic management aspects of Indian pharmaceutical industry  
<https://citeseerx.ist.psu.edu/document?repid=rep1&type=pdf&doi=a896456980f372098359782a1c4b54da321f08b8>

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### Navigating drug discovery and development pipeline from concept of cure

11/3/2024 to 15/3/2024

#### Course Syllabus

Day-1: 11/3/2024

#### MODULE-1

1. Introduction to Drug Discovery
  - a. Understanding the pharmaceutical landscape and the journey of drug discovery.
  - b. Target identification and validation.
  - c. Screening for Potential Drug Candidates
  - d. Techniques and methodologies in high-throughput screening.
  - e. Lead compound identification and optimization.
  - f. Clinical Development Phases

Day-2: 12/3/2024

#### MODULE-2

2. Designing and conducting clinical trials.
  - a. Regulatory requirements for moving through each phase.
  - b. Approval and Market Access

Day-3: 13/3/2024

#### MODULE-3

3. Strategies for regulatory approval.
  - a. Market analysis and commercialization strategies.
  - b. Post-Market Surveillance and Future Trends



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**Day-4: 14/3/2024**

### MODULE-4

4. Monitoring and managing drugs post-approval.
  - a. Recent advances in pharmacovigilance

**Day-5: 15/3/2024**

### MODULE-4

5. Emerging trends and technologies in drug development.
  - a. Highthroughput screening
  - b. Clinical trial design

### References:

1. Rang, H. P., Dale, M. M., Ritter, J. M., Flower, R. J., & Henderson, G. "Pharmacology," 7th Edition, Churchill Livingstone, 2011.
2. DiMasi, J. A., Hansen, R. W., & Grabowski, H. G. "The price of innovation: new estimates of drug development costs," *Journal of Health Economics*, 2003. [https://doi.org/10.1016/S0167-6296\(02\)00126-1](https://doi.org/10.1016/S0167-6296(02)00126-1).
3. European Medicines Agency. "Guideline on the Requirements for the Chemical and Pharmaceutical Quality Documentation Concerning Investigational Medicinal Products in Clinical Trials," *EMA Publications*, 2017.
4. World Health Organization. "Guidelines on Clinical Trials in Pharmaceutical Products," *WHO Technical Report Series*, 2004.
5. U.S. Food and Drug Administration. "Post-Marketing Surveillance Programs for Drug Safety," *FDA Guidelines*, 2021.

### Course Outcomes:

1. **To Understand the Fundamentals of Drug Discovery:** Students will learn about the pharmaceutical landscape, including the steps involved in drug discovery, target identification, and validation.
2. **To Apply Screening Techniques in Drug Development:** Students will gain insight into high-throughput screening techniques, lead compound identification, and optimization strategies.
3. **To Comprehend Clinical Trial Design:** Participants will understand how to design and conduct clinical trials, taking into account the regulatory requirements for each phase.



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## A 5-DAY VALUE-ADDED COURSE ENTITLED

### "VITALITY BLUEPRINT: A JOURNEY TO OPTIMAL YOUTH HEALTH"

#### COURSE SYLLABUS

#### **Module I** Day 1: Solve with Protein-Session by Mrs. K. Kiranmai, Dietician

- Protein Powerhouse (Exploring Protein Shapes and Functions)
- The High Five! Protein-Protein Interactions (Lock-and-key model, Protein-Binding Codes)
- Teamwork Makes the Dream Work (Jobs of Proteins in the Body)
- Protein Puzzles and Mysteries (What happens when the Protein jobs go wrong-Diseases)

#### **Module II** Day 2: Journey through Immunosuppressants-Session by Dr. B. V. R. H. Sastry, Consultant Nephrologist

- The Amazing Immune System (Understanding how the immune system fights infection)
- Autoimmune Diseases (Definition and Real-life Examples)
- Immunosuppressants-the Peacemakers (Examples and Mechanism of Action)
- Medication Adherence to the Immunosuppressants

#### **Module III** Day 3: Cycle of Care: Navigating Hygiene with Confidence -Session by Dr. B. Vijaya Durga Devi, Obstetrician and Gynecologist

- Demystifying Periods
- Hygiene Essentials (Exploring Different Options)
- How to Build a Personalized Hygiene Routine
- Open Discussion on Common Concerns and Challenges during Periods

#### **Module IV** Day 4: Revolutionizing Resuscitation: Advanced Strategies in Cardiovascular Life Support-Session by Dr. A. Satya Kalyani, Anesthesiologist

- Core ACLS Principles and Algorithms
- Mastering the Advanced Airway Management
- ACLS Pharmacology & Vascular Access
- High-Fidelity Simulations and Debriefing

#### **Module V** : Day 5: Healthy habits for Happy Tummies: Managing Gastric concerns in Young People Session by Dr. R. Srinivasa Murty, Gastroenterologist & Hepatologist

- Understanding the Digestive System
- Choosing Gut-Friendly Food Options
- Lifestyle Modifications for Happy Digestions
- Effective Communication with Healthcare Professionals

  
Course Coordinator

  
Principal