



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

LIST OF COURSES FOR THE A. Y 2018-19

S. No	Name of the course
1	Pharmacological Screening of Natural Products in Drug Discovery and Development
2	Cardiology Pharmacy
3	Intelligent Biosensors for Drug Delivery Monitoring
4	Predicting activity: How molecular Descriptors drive Drug Design
5	Advanced HPLC in Pharmaceutical analysis

T. Sarathyosh

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tamaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

“Pharmacological Screening of Natural Products in Drug Discovery and Development”






SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA
(Sponsored by the Exhibition Society), Tarnaka, Secunderabad.
Affiliated to Osmania University, Approved by AICTE & PCI
ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course



DEPARTMENT OF PHARMACOGNOSY

VALUE ADDED COURSE ON

PHARMACOLOGICAL SCREENING OF NATURAL PRODUCTS IN DRUG DISCOVERY AND DEVELOPMENT

SPEAKERS

Dr. V. Jyothi
Principal, SNVPMV

Dr. S. Hemalatha
Professor & HOD, SNVPMV

Mrs. Leemol Varghese
Sr. Assistant Professor
SNVPMV

COURSE COORDINATOR

Mrs. M. Rajeshwari
Assistant Professor
SNVPMV

Course Schedule
04-09-2018 TO 24-09-2018

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad.

Affiliated to Osmania University, Approved by AICTE & PCI

NBA Accredited B. Pharmacy Course

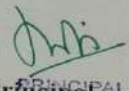
Date: 27/08/2018

CIRCULAR

This is to inform that B. Pharm I year, B. Pharm II year, Pharm. D II year students may register for a Value added course on "Pharmacological Screening of Natural Products in Drug Discovery and Development" as per the schedule given below. Hence all the students are highly encouraged to register and participate without fail.

Period of Certificate Program: 4th September to 24th September 2018.




Principal
Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka,
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

Detailed Program Schedule

Name of Class: B. Pharm I year, B. Pharm II year, Pharm. D II year	Course: "Pharmacological Screening of Natural Products in Drug Discovery and Development"
Duration of Course: 15 Days	Duration: 2 Hours Time: 3:00 PM - 5:00 PM

Dates: 4th September to 24th September 2018.

Time: 3:00 PM – 5:00 PM

Duration: 30 hours

Number of students attended: 138

Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya

Coordinator: Mrs. M Rajeswari, Assistant Professor Department of Pharmacognosy, SNVPMV.

Schedule: "Pharmacological Screening of Natural Products in Drug Discovery and Development"

Session	Date	Topic Name
1	04-09-2018	Introduction to "Pharmacological Screening of Natural Products in Drug Discovery and Development"
		Introduction to instructors and faculty.
		Distribution of program materials.
		Overview of Drug Development Process
2	05-09-2018	Role of Natural Products in Drug Discovery
		Natural Product Extraction Techniques for Extracting Bioactive Compounds
3	06-09-2018	Isolation Procedures of Bioactive Compounds
		Fractionation and Purification Methods
4	07-09-2018	Phytochemical Analysis Techniques
5	10-09-2018	Hands-on lab experience in phytochemical analysis.
6	11-09-2018	Biological Screening Assays
		Hands-on Training in Pharmacological Assays
		Interpretation of Assay Results
7	12-09-2018	Pharmacokinetics and Toxicity Studies
		Understanding Pharmacokinetic Properties of Drugs
		Toxicology Assessment and Safety Considerations
8	14-09-2018	Structure-Activity Relationship (SAR) Studies
9	15-09-2018	Exploring Chemical Structure-Activity Relationships
10	17-09-2018	Designing and Optimizing Lead Compounds
11	18-09-2018	Methods for screening the pharmacological activity of natural products.
12	19-09-2018	In vitro and in vivo assays.
13	20-09-2018	Preclinical and Clinical Studies
14	22-09-2018	Preparing Compounds for Clinical Trials

T. Sarathyosh
PRINCIPAL
Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tamaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

		Regulatory and Ethical Considerations
15	24-09-2018	Final Assessment and Project Presentation, followed by Value added Distribution and Closing Remarks

Course outcomes: After completion of this course, learners can

1. Understand an overview of “Pharmacological Screening of Natural Products in Drug Discovery and Development”
2. Role of Natural Products in Drug Discovery.
3. Understand the types of Extraction, Isolation and Isolation of Bio active compounds.
4. Hands-on Training in phytochemical analysis & Pharmacological Assays.
5. Understand the concept of Structure-Activity Relationship, Designing and Optimizing Lead Compounds.
6. Methods for screening the pharmacological activity of natural products both In vitro and in vivo assays.
7. Explore the Preclinical and Clinical Studies.

Value added Course Report

Title: “Pharmacological Screening of Natural Products in Drug Discovery and Development”

Academic Year: 2018-2019

Dates: 04-09-2018 to 24-09-2018

Time: 3:00 PM – 5:00 PM

Duration: 30 hours

Number of students attended: 138

Organized by: Sarojini Naidu Vanita Pharmacy Mahavidyalaya

Coordinator: Mrs. M. Rajeswari, Assistant Professor, Department of Pharmacognosy

Introduction: Pharmacological Screening of Natural Products in Drug Discovery and Development aimed to equip participants with knowledge and skills in the vital field of pharmacological screening of natural products, including Preclinical & Clinical studies in Drug discovery and Development.

Program Objectives:

The Primary Objectives of the value added course were:

- To Describe the Process of Drug Discovery and Development
- To Provide knowledge on Natural Product Extraction and Isolation
- To understand different concepts of Biological Screening Assays
- To promote the students in understanding Pharmacokinetics and Toxicity Studies
- To provide insights into the principles in Structure-Activity Relationship (SAR) Studies & Preclinical and Clinical Studies

Program Overview

The program comprised 15 sessions, each lasting 2 hours, and covered various aspects of pharmacological screening of natural products also emphasizing the principles of SARs, Methods for screening the pharmacological activity of natural products etc.

Key Session Highlights

The 30-hour Value added course was designed to cover a wide range of topics, including:

T. Sarathyosh

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tamaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

Session 1: Introduction to “Pharmacological Screening of Natural Products in Drug Discovery and Development” & Role of Natural Products in Drug Discovery

Speaker Name: Dr. V Jyothi, Principal, Department of Pharmacognosy, SNVPMV.

Session 2: Natural Product Extraction Techniques for Extracting Bioactive Compounds, Isolation Procedures of Bioactive Compounds, Fractionation and Purification Methods

Speaker Name: Mrs. Leemol Varghese, Sr. Assistant Professor, Department of Pharmacognosy, SNVPMV

Session 3: Biological Screening Assays, Hands-on Training in Pharmacological Assays, Understanding Pharmacokinetic Properties of Drugs, Toxicology Assessment and Safety Considerations

Speaker Name: Dr. V Jyothi, Principal, Department of Pharmacognosy, SNVPMV.

Session 4: Structure-Activity Relationship (SAR) Studies, Designing and Optimizing Lead Compounds

Speaker Name: Dr. S. Hemalatha Professor & HOD, Department of Pharmaceutical Chemistry

Session 5: Methods for screening the pharmacological activity of natural products, In vitro and in vivo assays.

Speaker Name: Dr. V Jyothi, Principal, Department of Pharmacognosy, SNVPMV.

Conclusion

The 30-hour Value added Program on Pharmacological Screening of Natural Products in Drug Discovery and Development Organized by Sarojini Naidu Vanita Pharmacy Maha Vidyalaya for the academic year 2018-2019 was successful. The program not only enhanced the knowledge and skills of the 138 participating students but also fostered a deep appreciation for the role of natural products in drug discovery and development

The knowledge gained during this program is expected to contribute to the students' academic and professional growth, with many potentially becoming future leaders in the field of pharmacological screening and drug development.

We extend our gratitude to the organizing committee, faculty members, guest lecturers, and, most importantly, the enthusiastic participants for making this program a memorable and educational experience.



T. Sarojyoshi

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tamaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course



Program Organizer:
SNVPMV,
Department of Pharmacognosy
Date: 28/09/2018

T. Sarathyosh

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tamaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

“Cardiology Pharmacy”



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA
(Sponsored by the Exhibition Society), Tamaka, Secunderabad,
Affiliated to Osmania University, Approved by AICTE & PCI
ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

DEPARTMENT OF PHARM D

VALUE ADDED COURSE ON CARDIOLOGY PHARMACY

SPEAKERS
Mrs. P. Tulasi
Assistant Professor, SNVPMV
Dr. Swarna Priyadarshini
Assistant Professor, SNVPMV
Mrs. O. Jimmy Devi
Assistant Professor, SNVPMV
Mrs. Sayeda Rabab Fathima
Assistant Professor, SNVPMV

COURSE COORDINATOR
Dr. A. Prathyusha
Assistant Professor
SNVPMV

Course Schedule
02-01-2019
to
12-01-2019



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA
(Sponsored by the Exhibition Society), Tamaka, Secunderabad
Affiliated to Osmania University, Approved by AICTE & PCI
ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

Date:28/12/2018

CIRCULAR

This is to inform that All Pharm D & B Pharmacy IV Year students may register for a Value added course on "Cardiology Pharmacy" as per the schedule given below. Hence all the students are highly encouraged to register and participate without fail.

Period of Certificate Program: 2nd January to 12th January, 2019 (3hrs/day)




Principal
PRINCIPAL
Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S. Lataguda, Tamaka,
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

Detailed Course Schedule

Name of Class: Pharm D I, II, III Year & B. Pharmacy IV Year	Course: Cardiology Pharmacy
Duration of Course: 10 Days	Duration: 3 Hours Time: 3:00 PM - 6:00 PM

Dates: 2nd January to 12th January, 2019 (3hrs/day)

Time: 3:00 PM - 6:00 PM

Duration: 30 Hours

Number of students attended: 108

Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya

Coordinator: Dr. A. Prathyusha Assistant Professor, SNVPMV

Course Title: Cardiology Pharmacy

Session	Date	Topic Name
1	2 nd January, 2019	Registration and Welcome
		Introduction to Cardiology Pharmacy
		Overview of Cardiovascular Diseases
2	3 rd January, 2019	Anatomy and Physiology of the Cardiovascular System
		Common Cardiac Medications: Classifications and Mechanisms of Action
		Role of the Pharmacist in Cardiac Patient Care
3	4 th January, 2019	Hypertension Management: Medications and Guidelines
		Workshop on Blood Pressure Monitoring Techniques
		Case Studies: Hypertension Scenarios
4	5 th January, 2019	Heart Failure Management: Pharmacotherapy
		Patient Counseling in Heart Failure
		Workshop: Medication Adherence Strategies
5	7 th January, 2019	Antiplatelet and Anticoagulant Therapy
		Case Studies: Managing Bleeding Risks in Anticoagulation
		Interactive Quiz on Week 1 Topics
6	8 th January, 2019	Dyslipidemia: Medications and Lifestyle Interventions
		Nutritional Aspects in Cardiovascular Health
		Group Discussion on Lipid-Lowering Therapies
7	9 th January, 2019	Diabetes and Cardiovascular Disease: Medication Management
		Role of Pharmacists in Multidisciplinary Diabetes Care
		Case Studies: Integrating Diabetes Care in Cardiology
8	10 th January, 2019	Cardiac Emergencies and Medication Management
		Simulation Exercise: Emergency Response in Cardiology
		Q&A Session with Emergency Medicine Experts
9	11 th January, 2019	Advances in Cardiac Pharmacotherapy Research

Sarthyosh

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tamaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

		Future Trends in Cardiology Pharmacy
		Group Project Presentations: Innovations in Cardiology Pharmacy
10	12 th January, 2019	Career Paths in Cardiology Pharmacy
		Closing Ceremony: Value added Distribution and Networking

Course outcomes:

After completion of this course, learners can

- 1. Understanding Cardiovascular Diseases:**
 - Define and describe various cardiovascular diseases.
 - Explain the pathophysiology of common cardiac conditions.
- 2. Pharmacological Knowledge:**
 - Classify and identify common cardiac medications.
 - Understand the mechanisms of action of cardiac drugs.
- 3. Clinical Application:**
 - Apply pharmacological knowledge to manage hypertension effectively.
 - Develop patient care plans for heart failure management.
- 4. Emergency Response Skills:**
 - Demonstrate proficiency in handling cardiac emergencies.
 - Execute appropriate medication management during emergencies.
- 5. Collaborative Diabetes Care:**
 - Evaluate the impact of diabetes on cardiovascular health.
 - Collaborate in multidisciplinary care for diabetic patients with heart conditions.
- 6. Anticoagulation and Bleeding Risks:**
 - Assess and manage anticoagulant therapy in cardiovascular patients.
 - Evaluate and mitigate bleeding risks associated with anticoagulation.
- 7. Lipid Management:**
 - Discuss the pharmacotherapy of dyslipidemia.
 - Engage in group discussions on lipid-lowering therapies.
- 8. Geriatric Cardiology:**
 - Recognize special considerations in medication management for geriatric patients.
 - Enhance patient-centered care for elderly individuals with cardiac conditions.
- 9. Interventional Cardiology:**
 - Understand medications used in interventional cardiology procedures.
 - Contribute to pharmaceutical care in pre and post-cardiac procedures.
- 10. Advances in Research and Future Trends:**
 - Explore recent advances in cardiac pharmacotherapy research.
 - Discuss and predict future trends in the field of cardiology pharmacy.
- 11. Communication and Counselling:**
 - Enhance communication skills for patient counselling.
 - Present a case study demonstrating effective communication in cardiology pharmacy.
- 12. Career Development:**
 - Explore various career paths in the field of cardiology pharmacy.

T. Sarathyosh

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

- Demonstrate an understanding of the roles and responsibilities of a cardiology pharmacist.

Value Added Course Report

Title: Cardiology Pharmacy

Academic Year 2018-2019

Dates: 2nd January to 12th January, 2019 (3hrs/day)

Time: 3:00 PM - 6:00 PM

Duration: 30 Hours

Number of students attended: 108

Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya

Coordinator: Dr. A. Prathyusha Assistant Professor, SNVPMV

Course Title: Cardiology Pharmacy

Speakers: Mrs. P Tulasi, Assistant Professor

Dr Swarna Priyadarshini, Assistant Professor,

Mrs. Sayeda Rabab Fathima, Assistant Professor

Mrs. O. Jimmy Devi, Assistant Professor,

Introduction

The "Cardiology Pharmacy" program organized by Sarojini Naidu Vanita Pharmacy Maha Vidyalaya aimed to provide participants with a comprehensive understanding of cardiology pharmacotherapy. Over the course of 10 days, 108 participants engaged in sessions covering a wide range of topics, including cardiovascular diseases, pharmacological interventions, emergency response, diabetes management, and advances in research.

Program Objectives:

1. Educational Focus:

- Equip participants with a solid understanding of cardiovascular diseases and their pharmacological management.

2. Practical Application:

- Foster the practical application of knowledge in the clinical management of hypertension, heart failure, and other cardiac conditions.

3. Emergency Preparedness:

- Enhance emergency response skills for pharmacists dealing with acute cardiac events.

4. Multidisciplinary Collaboration:

- Encourage collaboration in the management of cardiac patients with diabetes and other co morbidities.

5. Anticoagulation Expertise:

- Develop expertise in the assessment and management of anticoagulant therapy, considering bleeding risks.

6. Geriatric Cardiology Care:

- Address the unique medication considerations in geriatric cardiology patients.

T. Prathyusha

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

7. Interventional Cardiology:

- Provide insights into medications used in interventional cardiology procedures.

8. Advancements in Research:

- Explore recent research in cardiac pharmacotherapy and discuss future trends in the field.

Program Highlights:

- **Diverse Learning Formats:**
 - The program incorporated lectures, workshops, case studies, group discussions, and interactive quizzes, providing a well-rounded learning experience.
- **Interactive Sessions:**
 - Participants engaged in hands-on activities, including demo on blood pressure monitoring and simulation exercises for emergency response.

Conclusion:

The "Cardiology Pharmacy" program successfully achieved its objectives, equipping participants with the knowledge and skills needed to excel in the field. The positive feedback and engagement reflect the program's effectiveness in meeting the educational needs of pharmacy professionals interested in cardiology.



Program Organizer:

SNVPMV,

Department of Pharm D

Date: 13/01/2019

T. Sarathyosh

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tamaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

“Intelligent Biosensors for Drug Delivery Monitoring”



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad
Affiliated to Osmania University, Approved by AICTE & PCI
ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA
(Sponsored by Exhibition Society) Tamaka, Secunderabad,
Affiliated to Osmania University Approved
by AICTE & PCI ISO 9001 : 2015 Certified Institution
NBA Accredited B Pharmacy Course

ORGANISED BY
DEPARTMENT OF PHARMACEUTICS

VALUE ADDED COURSE ON
INTELLIGENT BIOSENSORS
FOR DRUG DELIVERY
MONITORING

SPEAKERS
Dr B Haarika
Professor, SNVPMV
Mrs K Geetanjali
Associate Professor, SNVPMV
Mrs R Prasanthi
Assistant Professor,
SNVPMV

COURSE COORDINATOR
Mrs G Srilalitha
Assistant Professor,
SNVPMV

COURSE SCHEDULE
01.02.2019 TO 18.02.2019

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad.
Affiliated to Osmania University, Approved by AICTE & PCI
NBA Accredited B. Pharmacy Course

DATE: 24.01.2019

CIRCULAR

This is to inform **B. Pharmacy IV Year** and **B. Pharmacy III Year** students have value added course on **"Intelligent Biosensors for Drug Delivery Monitoring"** as per the schedule given below. Hence all the students informed to attend the programme without fail.

1st February to 18th February, 2019




Principal

PRINCIPAL
Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tamaka,
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

Detailed Program Schedule

Name of Class: B. Pharmacy IV Year & B. Pharmacy III Year	Course: Intelligent Biosensors for Drug Delivery Monitoring
Duration of Course: 15 Days/ 30 Hrs	Duration: February 1 st to 18 th , 2019 Timings: 3 P.M to 5 P.M

Dates: February 1st to February 18th, 2019

Time: 3:00 PM - 5:00 PM

Duration: 30 Hours

Number of students attended: 50

Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya

Coordinator: Mrs. G. Srilalitha, Assistant Professor, Department of Pharmaceutics.

Schedule: Intelligent Biosensors for Drug Delivery Monitoring

Session	Date	Topic Name
1	01-02-2019	Basics of Biosensors
2	02-02-2019	Types of Biosensors.
3	04-02-2019	Sensor Fabrication.
4	05-02-2019	Biomolecule Recognition Elements
5	06-02-2019	Nanotechnology in Biosensors
6	07-02-2019	Microfluidic Biosensors
7	08-02-2019	Intelligent Biosensors
8	09-02-2019	Data Analysis and Interpretation
9	11-02-2019	Drug Delivery Mechanisms
10	12-02-2019	Challenges in Drug Delivery
11	13-02-2019	Smart Biosensors in Healthcare
12	14-02-2019	Ethical and Regulatory Considerations
13	15-02-2019	Emerging Technologies
14	16-02-2019	Final Project
		Field Work
15	18-02-2019	Course Assessment
		Certification

Course outcomes:

After completion of this course, learners can

1. Understand the key terms and concepts related to the Basics of Biosensors. And explain Types of Biosensors.
2. Understand the Biomolecule Recognition Elements
3. Discriminate the Data Analysis and Interpretation.
4. Explore how Smart Biosensors in Healthcare.
5. Compare the various Ethical and Regulatory Considerations.
6. Associate the Emerging Technologies

T. Sarathyosh

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tamaka
Secunderabad-500 017.



Value Added Course Report

Title: 'Intelligent Biosensors for Drug Delivery Monitoring'

Duration: 30 Hours

Dates: February 1st to 18th, 2019

Time: 3:00 PM - 5:00 PM

Number of students attended: 50

Coordinator: Mrs G. Sri Lalitha, Department of Pharmaceutics.

Speakers Name:

1. Dr. B. Haarika, Professor, SNVPMV.
2. Mrs. K. Geetanjali, Assistant Professor, SNVPMV.
3. Mrs. R. Prasanthi, Assistant Professor, SNVPMV.

Executive Summary:

This report outlines a comprehensive 30-hour value added course plan on "Intelligent Biosensors for Drug Delivery Monitoring." This course aims to provide a structured and in-depth understanding of biosensor technology, its applications in drug delivery monitoring, and the latest advancements in intelligent biosensors. The course is designed to be delivered over 15 days, with daily sessions lasting 2 hours each. The curriculum includes a balanced mix of theory, practical applications, and hands-on activities to engage and educate participants.

Course Overview:

- **Course Objective:** The primary goal of this course is to equip participants with the knowledge and skills required to understand, design, and apply intelligent biosensors in the context of drug delivery monitoring.
- **Duration:** The course spans 30 hours, delivered over 15 days, with each daily session lasting 2 hours.

Course Delivery:

The course will be delivered through a combination of lectures, practical demonstrations, case studies, and interactive discussions. Participants will also be engaged in hands-on activities and projects to apply their knowledge in real-world scenarios.

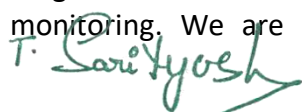
Assessment and Certification:

Participants will be evaluated through project presentations, quizzes, and a final examination. Successful participants will receive a certification upon course completion.

Conclusion:

The 30-hour value added course on "Intelligent Biosensors for Drug Delivery Monitoring" offers a well-structured and comprehensive learning experience. It equips participants with the necessary skills and knowledge to apply biosensor technology in the field of drug delivery monitoring and healthcare. The course aims to foster innovation and contribute to the development of intelligent biosensors, ultimately improving patient care and medication delivery.

This course plan has been designed to provide participants with a strong foundation and practical experience in the field of biosensors and drug delivery monitoring. We are


PRINCIPAL
Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tamaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

confident that this course will be a valuable resource for professionals and students seeking to advance their knowledge in this critical area of healthcare technology.



Program Organizer:

SNVPMV,

Department of Pharmaceutics

Date: 20/02/2019.

T. Sarathyosh

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

**“Predicting activity: How molecular
Descriptors drive Drug Design”**



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI ISO 9001

Certified Institution, NBA Accredited B. Pharmacy Course

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

VALUE ADDED COURSE ON

PREDICTING ACTIVITY : HOW MOLECULAR DESCRIPTORS DRIVE DRUG DESIGN

COURSE COORDINATORS

Dr. S. Hemalatha
Professor, SNVPMV
Dr .T. Saritha Jyothsna
Professor, SNVPMV

SPEAKERS

Dr. S. Anuradha
Associate Professor
SNVPMV
Dr. K. Neelima
Associate Professor
SNVPMV
Mrs. Muni Sireesha
Assistant Professor
SNVPMV

COURSE SCHEDULE 01.02.2019 to 18.02.2019



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad
Affiliated to Osmania University, Approved by AICTE & PCI
ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

24/01/2019

Circular

Sarojini Naidu Vanita Pharmacy Mahavidyalaya is pleased to announce the conduct of a highly engaging and Value added Course titled "**Predicting Activity: How Molecular Descriptors Drive Drug Design.**" This specialized course is designed to provide our B. Pharmacy IV Year and III Year students with an in-depth understanding of the pivotal role molecular descriptors play in the drug design and discovery process.

Learning Outcomes:

Participants will gain comprehensive knowledge about molecular descriptors, understand their application in drug design, and acquire hands-on experience with computational tools. This course aims to bridge the gap between theoretical knowledge and practical application, preparing students for future challenges in the pharmaceutical industry.

Dates: From 1st February to 18th February 2019

Total Hours: 34 Hours

Daily Timing: 2.00 PM to 5:00 PM

Venue: Sarojini Naidu Vanita Pharmacy Mahavidyalaya, Tarnaka, Hyderabad

Eligibility: Open exclusively to B.Pharmacy IV Year and III Year students of Sarojini Naidu Vanita Pharmacy Mahavidyalaya.

For further details, please contact **Dr.S. Hemalatha**



PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya,
Vijayapuri Colony, S.Lalaguda, Tarnaka,
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

Course Schedule

Predicting Activity: How Molecular Descriptors Drive Drug Design

Duration: **1st February to 18th February 2019**

Participants: B. Pharmacy IV Year and B. Pharmacy III Year Students

Total No of Students : 52

Venue: Sarojini Naidu Vanita Pharmacy Maha vidyalaya, Tarnaka, Hyderabad

Coordinator:

Dr .S. Hemalatha, Professor, SNVPMV

Dr. T. Sarita Jyostna, Professor, SNVPMV

Speakers:

1. Dr. S. Anuradha, Associate Professor, SNVPMV

2. Dr. K. Neelima, Associate Professor, SNVPMV

3. Mrs. S. Muni Sireesha, Ass Professor, SNVPMV

Course Schedule:

1. February 1st 2019: Introduction to Drug Design and the Importance of Molecular Descriptors

2. February 2nd 2019: Types of Molecular Descriptors and Their Calculation

3. February 4th 2019: Introduction to Computational Tools in Drug Design

4. February 5th 2019: Hands-On Training: Computational Tools Part 1

5. February 6th 2019: The Role of Molecular Descriptors in ADMET Prediction

6. February 7th 2019: Hands-On Training: Computational Tools Part 2

7. February 8th 2019: Case Studies: Successful Drug Designs Using Molecular Descriptors

8. February 9th 2019: Interactive Session: Challenges in Drug Design

9. February 11th 2019: Advanced Topics in Molecular Descriptors

10. February 12th 2019: Practical Applications of Molecular Descriptors in Drug Repurposing

11. February 13th 2019: Workshop: Designing a Drug Using Molecular Descriptors

12. February 14th 2019: Peer Review Session: Discussing Drug Design Projects

13. February 15th 2019: Insights into the Future of Drug Design and Discovery

14. February 16th 2019: Presentation of Projects by Students

Closing Session

15. February 18th 2019: Course Recap, Feedback, and Value added Distribution Ceremony

Outcomes:

Knowledge Acquisition: Participants gained valuable insights into the role of molecular descriptors in drug design, enhancing their understanding of the subject.

Skill Development: The practical sessions equipped students with essential skills in using computational tools for drug design, significantly enriching their learning experience.

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

Research Interest: The course successfully ignited interest among students in pursuing research in drug design, evidenced by discussions and feedback.

Innovative Projects: The culminating project presentations demonstrated innovative approaches to drug design, showcasing the creativity and analytical skills of the participants.

They learned about different software tools Such as Mo inspiration, Molsoft , Swiss ADME, and about PkCSM software used for Molecular Descriptors.

Valued added course Report

Report on "Predicting Activity: How Molecular Descriptors Drive Drug Design"

Course Duration: 1st February to 18th February 2019

Participants: 52 Students B. Pharmacy IV Year(30) and B. Pharmacy III Year(22)

Venue: Sarojini Naidu Vanita Pharmacy Maha vidyalaya, Tarnaka, Hyderabad

Overview

The value-added course titled "Predicting Activity: How Molecular Descriptors Drive Drug Design" was successfully conducted at Sarojini Naidu Vanita Pharmacy Maha vidyalaya, Tarnaka, Hyderabad, from 1st to 18th February 2019. This specialized course was designed to provide to the educational needs of 52 participating students from the B. Pharmacy IV and III Year Students. It aimed at providing a comprehensive understanding of the critical role molecular descriptors play in the field of drug design and development.

Objectives

- To introduce the concept and significance of molecular descriptors in modern drug design. To provide in-depth knowledge and hands-on experience with computational tools used in the prediction of drug activity.
- To enhance the analytical and problem-solving skills of students in pharmaceutical sciences.
- To stimulate interest and encourage further exploration and research in the field of drug design and discovery.
- The course was meticulously planned to encompass a wide array of topics essential for a thorough understanding of molecular descriptors and their application in drug design.
- The curriculum was structured as follows:

Introduction to Drug Design: Setting the stage with an overview of drug discovery and development processes.

Molecular Descriptors: Exploring the types, importance, and methods of calculating molecular descriptors.

Computational Tools and Software: Hands-on training sessions on utilizing computational tools for the prediction of drug activity.

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

ADMET Predictions: Learning about the prediction of absorption, distribution, metabolism, excretion, and toxicity using molecular descriptors.

Practical Applications: Engaging in case studies and real-world applications to reinforce learning and application of knowledge.

The course saw active participation from 56 students, who displayed an eagerness to learn and engage with the course material. The interactive sessions, coupled with practical workshops, provided an ideal environment for experiential learning and stimulated lively discussions among students and faculty.

Participant feedback highlighted the course's effectiveness in bridging theoretical knowledge with practical applications. Students appreciated the depth of information provided, the hands-on training sessions, and the opportunity to engage in meaningful discussions on drug design.

Conclusion

The "Predicting Activity: How Molecular Descriptors Drive Drug Design" course at Sarojini Naidu Vanita Pharmacy Mahavidyalaya was a significant success. This initiative underscores the importance of integrating such specialized courses into the pharmacy curriculum to prepare future professionals equipped with knowledge and skills pertinent to the evolving needs of the pharmaceutical industry.



Program Organizer:

SNVPMV,

Department of Pharmacognosy

Date: 19/02/2019

T. Sarathyosh

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya,
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

“Advanced HPLC in Pharmaceutical analysis”



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA
(Sponsored by the Exhibition Society)
Tarnaka, Secunderabad
Affiliated to Osmania University
Approved by AICTE & PCI
ISO 9001: 2015 Certified Institution
NBA Accredited B. Pharmacy Course



DEPARTMENT OF PHARMACEUTICAL ANALYSIS

VALUE ADDED COURSE ON

ADVANCED HPLC IN PHARMACEUTICAL ANALYSIS

SPEAKERS

- Dr. B. Haarika
Associate Professor
SNVPMV
- Dr. K. Neelima
Associate Professor
SNVPMV
- Ms. Selina Sravanthi
Assistant Professor
SNVPMV
- Mrs. Vijaya Boga
Assistant Professor
SNVPMV



COURSE COORDINATOR

- Ms. Selina Sravanthi
Assistant Professor
SNVPMV

COURSE SCHEDULE 01.03.2019 to 20.03.2019



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA
(Sponsored by the Exhibition Society), Tarnaka, Secunderabad
Affiliated to Osmania University, Approved by AICTE & PCI
ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

Date: 25-02-2019

CIRCULAR

This is to inform that M. Pharmacy I & II Year (Chemistry) & B. Pharmacy IV Year students may register for Value added course on "Advanced HPLC in Pharmaceutical Analysis" as per the schedule given below. Therefore, all students must take advantage of this opportunity and acquire the knowledge provided during the program.

March 1st to March 20th, 2019




Principal
PRINCIPAL
Sarojini Naidu vanita Pharmacy Maha Vidyalaya
Vijayepuri Colony, S.Lalaguda, Tarnaka,
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

Detailed Program Schedule

Name of Class: M. Pharmacy I & II (Chemistry) Year & B. Pharmacy IV Year	Course: "Advanced HPLC in Pharmaceutical Analysis"
Duration of Course: 15 Days (2 Hours)	Duration: 2 Hours Timings: 3:00 PM - 5:00 PM

Dates: March 1st to March 20th, 2019

Time: 3:00 PM - 5:00 PM

Duration: 30 Hours

Number of students attended: 70

Coordinator: Ms. Selina Sravanthi, Assistant Professor, Department of Pharmaceutical Analysis

Schedule: Advanced HPLC in Pharmaceutical Analysis

Session	Date	Topic Name
1	01-03-2019	Principles of HPLC
	02-03-2019	Types of HPLC
	05-03-2019	
2	06-03-2019	
	07-03-2019	HPLC instrumentation
	08-03-2019	
3	09-03-2019	HPLC columns and mobile phases
	11-03-2019	HPLC sample preparation
	12-03-2019	
4	13-03-2019	HPLC method development and validation
	14-03-2019	
	15-03-2019	
5	18-03-2019	HPLC applications in pharmaceutical analysis
	19-03-2019	
	20-03-2019	

Course outcomes:

Upon completion of the program, participants were able to:

1. Understand the principles of HPLC
2. Apply HPLC to the analysis of pharmaceutical products
3. Develop and validate HPLC methods
4. Troubleshoot and optimize HPLC methods
5. Interpret and report HPLC data

T. Sarathyosh

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tamaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

Value Added Course Report

Title: "Advanced HPLC in Pharmaceutical Analysis"

Duration: 30 Hours

Dates: March 1st to March 20th, 2019

Time: 3:00 PM - 5:00 PM

Number of students attended: 70

Coordinator: Ms. Selina Sravanthi, Department of Pharmaceutical Analysis.

Introduction:

The Advanced HPLC in Pharmaceutical Analysis Value added program aimed to offer a comprehensive understanding of the role and applications of AI in pharmaceutical sciences. Spanning over 30 hours, the program delved into various facets of AI and its significance in advancing pharmaceutical research and development.

Program Highlights:

Session 1: "Navigating Precision: Illuminating the Principles and Types of High-Performance Liquid Chromatography (HPLC)"

Speaker Name: **Dr. B. Harika, Associate Professor, Department of Pharmaceutics**

Develop a comprehensive understanding of the core principles underlying High-Performance Liquid Chromatography and Familiarize the participants with the various types of HPLC techniques, including normal phase, reverse phase, ion-exchange, and size-exclusion chromatography.

Session 2: "Precision Unveiled: Mastering the Symphony of High-Performance Liquid Chromatography (HPLC) Instrumentation"

Speaker Name: **Dr. K. Neelima, Associate Professor, Department of Pharmaceutical Analysis**

To Develop the skills to optimize HPLC instrument parameters, ensuring precise and reliable chromatographic separations.

Session 3: "Beyond Separation: A Symphony of Success with HPLC Columns, Mobile Phases and Pristine Sample Preparation"

Speaker Name: **Ms. Selina Sravanthi, Assistant Professor, Department of Pharmaceutical Analysis**

Develop strategies for choosing suitable solvents and conditions to ensure optimal sample solubility in HPLC analysis.

Session 4: "Crafting Precision: The Art and Science of HPLC Method Development and Validation"

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tamaka
Secunderabad-500 017.



SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

(Sponsored by the Exhibition Society), Tarnaka, Secunderabad

Affiliated to Osmania University, Approved by AICTE & PCI

ISO 9001: 2015 Certified Institution, NBA Accredited B. Pharmacy Course

Speaker Name: **Vijaya Boga, Assistant Professor, Department of Pharmaceutical Analysis**

Understand the systematic approach to optimizing chromatographic parameters during method development for robust and efficient separations.

Session 5: "Pharma Precision: Unveiling the Impact of HPLC Applications in Pharmaceutical Analysis"

Speaker Name: **Dr. K. Neelima, Associate Professor, Department of Pharmaceutical Analysis**

Apply HPLC techniques for accurate quantitative analysis of pharmaceutical compounds, ensuring product quality control.

Key Learning's:

The program was designed with the following key objectives:

- To grasp the fundamental principles of High-Performance Liquid Chromatography (HPLC) and apply this knowledge in the understanding of chromatographic separation, detection, and quantification of compounds.
- To understand the components, functionality, and optimization of High-Performance Liquid Chromatography (HPLC) instrumentation for effective and precise analytical separations.
- To acquire skills in preparing samples for HPLC analysis, ensuring compatibility with the chromatographic system and reliable quantification of target compounds.
- To master the principles and practices of developing, optimizing, and validating HPLC methods for accurate and reliable analysis.
- To explore and apply HPLC techniques for pharmaceutical analysis, covering drug quality control, impurity profiling, and related applications.

Conclusion:

The 30-hour Value added program on Advanced HPLC in Pharmaceutical Analysis was a well-organized and informative program. The participants gained valuable knowledge and skills that will help them in their careers as pharmaceutical scientists.



Program Organizer:

SNVPMV,

Department of Pharmaceutical Chemistry

Date: 19/03/2022.

T. Sarathyosh

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.