



# 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

## LIST OF COURSES FOR THE A. Y 2019-20

S. No	Name of the course
1	<a href="#">The Future of Personalized Medicine</a>
2	<a href="#">Importance of Nutraceuticals and Functional Foods for a Healthy Life</a>
3	<a href="#">QSAR in Environmental Chemistry &amp; Toxicology</a>
4	<a href="#">Emerging Trends in Pharmaceutical Analysis</a>
5	<a href="#">Evidence based Medicines and Guidelines for Pharmacist</a>

T. Sarathyosh

PRINCIPAL

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



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# **“Smart and Responsive Drug Delivery Systems: The Future of Personalized Medicine”**



# SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

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**DEPARTMENT OF PHARMACEUTICS**

**VALUE ADDED COURSE ON**

**SMART AND RESPONSIVE DRUG DELIVERY SYSTEMS: THE FUTURE OF PERSONALIZED MEDICINE**

**SPEAKERS**

- Mrs. R. Prasanthi**  
Assistant Professor  
SNVPMV
- Mrs. K. Geetanjali**  
Associate Professor  
SNVPMV
- Mrs. CH. Bhargavi**  
Assistant Professor  
SNVPMV

**COURSE COORDINATOR**

**Mrs .P. Divya Theja**  
Assistant Professor  
SNVPMV

**Course Schedule 03.09.2019 to 23.09.2019**

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DATE: 24.10.2019

### CIRCULAR

This is to inform B. Pharm I Year & B. Pharm II Year students have value added course on “Smart and Responsive Drug Delivery Systems: The Future of Personalized Medicine” as per the schedule given below. Hence all the students informed to attend the programme without fail.

3<sup>rd</sup> September to 23<sup>rd</sup> September 2019



**Principal**

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



## Detailed Program Schedule

<b>Name of Class:</b> B. Pharm I Year & B. Pharm II Year	<b>Course:</b> Smart and Responsive Drug Delivery Systems: The Future of Personalized Medicine
<b>Duration of Course:</b> 15 Days/ 30 Hrs	<b>Duration:</b> 3rd September to 23rd September 2019 <b>Timings:</b> 3 P.M to 5 P.M

**Dates:** 3rd September to 23rd September 2019

**Time:** 3:00 PM - 5:00 PM

**Duration:** 30 Hours

**Number of students attended:** 56

**Organized by:** Sarojini Naidu Vanita Pharmacy Maha Vidyalaya

**Coordinator:** Mrs. P. Divya Teja, Assistant Professor, SNVPMV.

**Schedule:** Smart and Responsive Drug Delivery Systems: The Future of Personalized Medicine

Session	Date	Topic Name
1	03-09-2019	Introduction to Smart Drug Delivery
		Overview of smart drug delivery systems
		Importance in personalized medicine
2	04-09-2019	Types of Smart Drug Delivery Systems
		Implantable devices, nano carriers, and more
		Advantages and limitations
3	05-09-2019	Biomaterials in Drug Delivery
		Types of biomaterials
		Design considerations
4	06-09-2019	Drug Release Mechanisms
		Controlled and stimuli-responsive release
		Tailoring drug release profiles
5	07-09-2019	Nano and Microfabrication Techniques
		Microfluidics, 3D printing, and more
		Precision in drug delivery systems
6	09-09-2019	Smart Sensors and Feedback Control
		Real-time monitoring and data feedback
		Adaptive drug delivery systems
7	11-09-2019	Innovations in Targeted Delivery
		Site-specific targeting strategies
		Personalized medicine approaches
8	13-09-2019	Ethical and Regulatory Considerations
		Ethical concerns in smart drug delivery
		Regulatory guidelines and approvals
9	16-09-2019	Smart Drug Delivery in Oncology
		Targeted cancer therapy

*T. Sarathyosh*

PRINCIPAL

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



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		Case studies and clinical successes
10	17-09-2019	Diabetes Management and Beyond
		Continuous glucose monitoring and insulin delivery
		Expanding applications in chronic diseases
11	18-09-2019	Neurological Disorders and Personalized Medicine
		Brain-targeted drug delivery
		Ethical considerations in neurology
12	19-09-2019	Respiratory Drug Delivery and Beyond
		Inhalable smart drug delivery systems
		Advances in pulmonary medicine
13	20-09-2019	Emerging Technologies and Innovations
		Upcoming trends in smart drug delivery
		Potential innovations in personalized medicine
14	21-09-2019	Final Project
		Field Work
		Course participants work on individual or group projects
		Preparation of final presentations
15	23-09-2019	Course Assessment
		Presentation of final projects
		Certification

### Course outcomes:

After completion of this course, learners can

1. Gain a comprehensive understanding of the fundamental principles and mechanisms behind smart and responsive drug delivery systems, including the various types of carriers and stimuli-responsive materials.
2. Explore the concept of personalized medicine and its integration with smart drug delivery systems, emphasizing the role of individualized treatment plans based on genetic, physiological, and lifestyle factors.
3. Develop the ability to critically analyze and evaluate cutting-edge technologies in drug delivery, including nanotechnology, biomaterials, and targeted drug delivery platforms, with a focus on their potential impact on personalized medicine
4. Acquire skills in designing and optimizing smart drug delivery systems tailored to specific therapeutic applications. This includes understanding the factors influencing drug release kinetics, targeting efficiency, and minimizing side effects.
5. Explore the ethical and regulatory aspects associated with the development and implementation of smart and responsive drug delivery systems. Understand the importance of ethical considerations, patient safety, and compliance with regulatory guidelines in the field of personalized medicine.
6. Associate Smart and Responsive Drug Delivery Systems: The Future of Personalized Medicine.

### Value Added Course Report

**Title:** "Smart and Responsive Drug Delivery Systems: The Future of Personalized Medicine"

**Duration:** 30 Hours

*T. Sarathyosh*

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



**Dates:** 3<sup>rd</sup> September to 23<sup>rd</sup> September 2019

**Time:** 3:00 PM - 5:00 PM

**Number of students attended:** 56

**Coordinator:** Mrs. P. Divya Theja, Asst. Professor, SNVPMV.

**Introduction:**

The 30-hour value added Programme on " Smart and Responsive Drug Delivery Systems: The Future of Personalized Medicine " was conducted from 3<sup>rd</sup> September to 23<sup>rd</sup> September 2019. The program aimed to provide participants with comprehensive insights into Future of Personalized Medicine) principles and their practical applications in the pharmaceutical industry. Sessions were held daily, from 3:00 PM to 5:00 PM, covering various topics related to Future of Personalized Medicine.

**Program Highlight's**

Session 1: Introduction and Fundamentals

Speaker Name: Mrs. R. Prasanthi, Asst. Professor, SNVPMV.

This report presents a comprehensive 30-hour value added course plan on "Innovations in Smart and Responsive Drug Delivery Systems: The Future of Personalized Medicine." The course is designed to provide participants with an in-depth understanding of the latest advancements in smart and responsive drug delivery systems and their role in personalized medicine. The curriculum spans 15 days, with daily sessions lasting 2 hours each. The course covers fundamental concepts, advanced technologies, applications, and future trends in the field.

Session 2: Specialized Topics

Speaker Name: Mrs. K.Geetanjali, Assoc. Professor, SNVPMV.

Sessions during this period delved into specialized areas, Innovations in Smart and Responsive Drug Delivery Systems: The Future of Personalized Medicine applications in diverse scenarios.

Session 3: Advanced Techniques and Hands-on Training

Speaker Name: Mrs. CH.Bhargavi, Asst. Professor, SNVPMV.

Participants were exposed to advanced analytical techniques and QbD software. Hands-on workshops were conducted, allowing attendees to apply QbD principles practically. Group discussions facilitated knowledge sharing among participants.

Session 4: Capstone Project and Presentations

Speaker Name: Mrs. R. Prasanthi, Asst. Professor, SNVPMV.

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

**Key Learning's:**

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

*T. Sarathyosh*

PRINCIPAL

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



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### Conclusion:

The 30-hour value added course on "Innovations in Smart and Responsive Drug Delivery Systems: The Future of Personalized Medicine" offers a well-structured and comprehensive learning experience. It equips participants with the necessary knowledge and skills to leverage innovative drug delivery systems in personalized medicine. The course is designed to cater to the needs of professionals, researchers, and students seeking to advance their expertise in this dynamic and vital area of healthcare technology.

The course plan is a valuable resource, fostering innovation and contributing to the advancement of personalized medicine. It ultimately aims to improve patient care and treatment outcomes by providing an in-depth understanding of smart and responsive drug delivery systems.



### Program Organizer:

SNVPMV,

Department of Pharmaceutics

Date: 25/09/2019

*T. Sarathyosh*

PRINCIPAL

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



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# **“Importance of Nutraceuticals and Functional Foods for a Healthy Life”**





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**DEPARTMENT OF PHARMACOGNOSY**

**VALUE ADDED COURSE ON IMPORTANCE OF NUTRACEUTICALS AND FUNCTIONAL FOODS FOR A HEALTHY LIFE**

**COURSE COORDINATOR**  
**Dr. P. Praneetha**  
Associate Professor  
SNVPMV

**SPEAKERS**  
Dr. V. Jyothi  
Principal, SNVPMV  
Dr. S. Anuradha Bai  
Professor, SNVPMV  
Mrs. Leemol Varghese  
Sr. Assistant Professor  
SNVPMV  
Mrs. M. Rajeshwari  
Assistant Professor, SNVPMV

**Course Schedule**  
**03-09-2019 TO 23-09-2019**

## SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

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Date: 28/08/2019

### CIRCULAR

This is to inform that **B. Pharm III year** students may register for a Value added course on "Importance of Nutraceuticals and Functional Foods for a Healthy Life" as per the schedule given below. Hence all the students are highly encouraged to register and participate without fail.

**Period of Certificate Program:** 3<sup>rd</sup> September to 23<sup>rd</sup> September 2019.



  
Principal

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**Detailed Program Schedule**

<b>Name of Class:</b> B. Pharm III year	<b>Course:</b> "Importance of Nutraceuticals and Functional Foods for a Healthy Life"
<b>Duration of Course:</b> 15 Days	<b>Duration: 2 Hours</b> Time: 3:00 PM - 5:00 PM

**Dates:** 3<sup>rd</sup> September to 23<sup>rd</sup> September 2019.**Time:** 3:00 PM – 5:00 PM**Duration:** 30 hours**Number of students attended:** 60**Organized by:** Sarojini Naidu Vanita Pharmacy Maha Vidyalaya**Co-Ordinator:** Dr. P. Praneetha, Associate Professor, Department of Pharmacognosy, SNVPMV.**Schedule:** "Importance of Nutraceuticals and Functional Foods for a Healthy Life"

Session	Date	Topic Name
1	03-09-2019	Introduction to Nutraceuticals and Functional Foods: Definition and concept of nutraceuticals and functional foods, Historical development and evolution, Regulatory framework and guidelines
2	04-09-2019	Basic principles of nutrition, Nutrient categories and their functions, The link between nutrition and health Dietary recommendations for different life stages
3	05-09-2019	Phytochemicals, antioxidants, and their health benefits, Role of vitamins and minerals in health, Omega-3 fatty acids and their effects on health, Probiotics and their impact on the gut microbiome
4	06-09-2019	Role of nutraceuticals in preventing chronic diseases, Functional foods for cardiovascular health, Functional foods for weight management, Nutraceuticals for immune support
5	07-09-2019	Nutritional requirements for special populations (pregnancy, elderly, athletes)
6	09-09-2019	Dietary modifications for specific health conditions (diabetes, celiac disease, etc.), Role of nutraceuticals in supplementation
7	11-09-2019	Hands-on activity or case study analysis, Quality standards and certifications, Safety concerns and potential risks
8	13-09-2019	Quality standards and certifications, Safety concerns and potential risks
9	16-09-2019	Labelling and marketing of nutraceutical products, Consumer awareness and scepticism

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Vijayapuri Colony, S.Lalaguda, Tamaka  
Secunderabad-500 017.



10	17-09-2019	Incorporating functional foods into everyday diet, Cooking and meal planning with functional foods
11	18-09-2019	Making informed choices when purchasing nutraceutical products, Case studies and practical examples
12	19-09-2019	Current research and developments in the field
13	20-09-2019	Emerging trends and innovations in nutraceuticals
14	21-09-2019	Written examination to assess participants' knowledge
15	23-09-2019	Awarding of Value added to successful participants, Closing ceremony and networking opportunities

**Course outcomes:** After completion of this course, learners can

1. Understand an overview of “Importance of Nutraceuticals and Functional Foods for a Healthy Life”
2. Basic principles of nutrition
3. Nutrient categories and their functions
4. Understand the Role of vitamins and minerals in health, Omega-3 fatty acids and their effects on health, Probiotics and their impact on the gut microbiome
5. Nutritional requirements for special populations (pregnancy, elderly, athletes)
6. Dietary modifications for specific health conditions (diabetes, celiac disease, etc.)

### **Value added Course Report**

**Title:** “Importance of Nutraceuticals and Functional Foods for a Healthy Life”

**Academic Year:** 2019-2020

**Dates:** 03-09-2019 to 23-09-2019

**Time:** 3:00 PM – 5:00 PM

**Duration:** 30 hours

**Number of students attended:** 60

**Organized by:** Sarojini Naidu Vanita Pharmacy MahaVidyalaya

**Co-Ordinator:** Dr. P. Praneetha, Associate Professor, Department of Pharmacognosy.

**Introduction:** “Importance of Nutraceuticals and Functional Foods for a Healthy Life” aimed to equip participants with knowledge about the importance of Nutraceuticals and Functional Foods, Phytochemicals, antioxidants, and their health benefits, Role of vitamins and minerals in health, Omega-3 fatty acids and their effects on health, Probiotics and their impact on the gut microbiome etc.

#### **Program Objectives:**

The Primary Objectives of the value added course were:

- To understand the concepts of Nutraceuticals and Functional
- Importance of Nutrition and Health
- Extraction and isolation of Bioactive Compounds
- Functional Foods and Nutraceuticals in Disease
- Nutraceuticals and Functional Foods in Special Diets

*T. Sarathyosh*

PRINCIPAL

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



- Evaluating the Quality and Safety of Nutraceuticals

### **Program Overview**

The program comprised 15 sessions, each lasting 2 hours, and covered various aspects of Nutraceuticals and Functional Foods, Phytochemicals, antioxidants, and their health benefits, Role of vitamins and minerals in health, Omega-3 fatty acids and their effects on health, Probiotics and their impact on the gut microbiome etc.

### **Key Session Highlights**

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

**Session 1:** Introduction to Nutraceuticals and Functional Foods

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

**Session 2:** Nutrition and Health, Basic principles of nutrition, Nutrient categories and their functions, the link between nutrition and health, Dietary recommendations for different life stages

**Speaker Name:** Dr. S Anuradha Bai Professor, Department of Quality Assurance, SNVPMV

**Session 3:** Nutritional requirements for special populations (pregnancy, elderly, athletes), Dietary modifications for specific health conditions (diabetes, celiac disease, etc.), Role of nutraceuticals in supplementation

**Speaker Name:** Mrs. M. Rajeshwari, Assistant Professor, Department of Pharmacognosy, SNVPMV.

**Session 4:** Quality standards and certifications, Safety concerns and potential risks, Labeling and marketing of nutraceutical products

**Speaker Name:** Mrs. Leemol Varghese, Associate Professor, Department of Pharmacognosy, SNVPMV.

**Session 5:** Emerging trends and innovations in nutraceuticals and functional foods

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

### **Conclusion**

The 30-hour Value added Program on “**Importance of Nutraceuticals and Functional Foods for a Healthy Life**” was conducted by Sarojini Naidu Vanita Pharmacy Maha vidyalaya during the academic year 2019-2020 was successful. The program aimed to deliver comprehensive knowledge about nutraceuticals and functional foods and their significance in maintaining health and well-being. A total of 60 students from B. Pharmacy III year, have participated in this program.

*T. Sarojyoshi*

PRINCIPAL

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



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**Program Organizer:**  
**SNVPMV,**  
**Department of Pharmacognosy**  
**Date: 29/09/2020**

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



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# **“QSAR in Environmental Chemistry & Toxicology”**



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**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY**

**VALUE ADDED COURSE ON**  
**QSAR IN ENVIRONMENTAL CHEMISTRY & TOXICOLOGY**

**SPEAKERS**

**Dr. S. Hemalatha**  
Professor & HOD, SNVPMV

**Dr. S. Anuradha Bai**  
Associate Professor, SNVPMV

**Mr. Dipankar Bhowmik**  
Data scientist Certum Ventures  
Bangalore

**Mrs. S. Muni Sireesha**  
Assistant Professor  
SNVPMV

**COURSE COORDINATOR**

**Dr. T. Saritha Jyotsna**  
Professor, SNVPMV

**Course Schedule**  
**03-02-2020 to 15-02-2020**



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Date:20-01-2020

### Circular

We are pleased to announce a Value-added course on "QSAR in Environmental Chemistry and Toxicology," scheduled from February 3rd to February 15th, 2020. This course is specifically designed for students of B.Pharm IV Year and Pharm.D III Year, aiming to enhance their knowledge and skills in the application of Quantitative Structure-Activity Relationship (QSAR) within the fields of environmental chemistry and toxicology.

**Total Hours:** 33 Hours

**Daily Timing:** 2:00 PM to 5:00 PM

#### Objectives of the Course:

To introduce the principles and applications of QSAR in environmental chemistry.

To understand the role of QSAR in predicting the behaviour of chemicals in the environment.

To explore the use of QSAR in assessing and predicting toxicity, particularly in drug development.

#### Course Highlights:

Interactive lectures and discussions.

Hands-on sessions with QSAR modeling tools.



  
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Secunderabad-500 017.



### Detailed Program Schedule

QSAR in Environmental Chemistry and Toxicology

**Duration:** February 3rd to February 15th, 2020

**Daily Time:** 2:00 PM to 5:00 PM, Daily Sessions: 2 Hours

**Target Audience:** B. Pharm IV Year Students & Pharm. D III Year Students

**Number of students attended:** 53

**Organized by:** Sarojini Naidu Vanita Pharmacy Maha Vidyalaya

**Coordinator:** Dr. T. Sarita Jyostna, Professor,

**Speakers:**

1. Dr. S. Hemalatha, Professor. SNVPMV
2. Dr. Anuradha Bai, Associate Professor. SNVPMV
3. Mr. Dipankar Bhowmik, Data scientist Centum Ventures, Bangalore.
4. Mrs. Muni Sireesha, Asst. Professor, SNVPMV

**Course Structure:**

Total Duration: 30 hours

**Detailed Schedule:**

Session	Date	Topic Name
1	03-02-2020	Introduction to QSAR and Environmental Chemistry
2	04-02-2020	Basic Principles of QSAR Modeling
3	05-02-2020	Descriptors in QSAR: Types and Calculations
4	06-02-2020	Statistical Methods in QSAR: Focus on Regression Analysis
5	06-02-2020	Overview of environmental pollutants and their effects.
6	07-02-2020	Introduction to chemo informatics tools and databases
7	07-02-2020	Model Validation and Evaluation Techniques
8	08-02-2020	Molecular descriptor calculation and selection.
9	10-02-2020	Applying QSAR in Environmental Toxicology
10	11-02-2020	QSAR in Drug Design: Toxicity Prediction
11	11-02-2020	QSAR in Drug Design: Toxicity Prediction
12	12-02-2020	QSAR Modeling Techniques
13	12-02-2020	QSAR Modeling Techniques
14	13-02-2020	Challenges and Future Perspectives in QSAR
15	14-02-2020	Course Summary, Evaluation, and Feedback

**Additional Features:**

Interactive sessions with practical case studies. Group discussions for collaborative learning.

**Resources:** Course materials (notes, slides, etc.).

Access to QSAR software for hands-on experience.

The course is designed to be engaging and interactive, blending theoretical understanding with practical application. The schedule may be adjusted according to the learning pace and preferences of the students.

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





The course encompassed a comprehensive curriculum, designed to cover key aspects of QSAR, including its principles, methodologies, and applications in environmental and toxicological studies. It involved a blend of theoretical lectures, interactive discussions, practical workshops, and expert sessions, summing up to a total of 30 instructional hours.

### **Report on value-added course "QSAR in Environmental Chemistry and Toxicology,"**

Total Duration: 30 hours **Duration:** February 3rd to February 15th, 2020

**Daily Time:** 2:00 PM to 5:00 PM, Daily Sessions: 2 Hours

**Target Audience:** B. Pharm IV Year Students & Pharm. D III Year Students

**Number of students attended: 53**

Quantitative Structure-Activity Relationship (QSAR) models are indispensable tools in environmental chemistry and toxicology for predicting the potential toxicity of chemical substances. The "QSAR in Environmental Chemistry and Toxicology" course offers comprehensive insights into how QSAR methodologies can be applied to predict the environmental fate and toxicological effects of chemicals. This report outlines the course's structure, content, learning outcomes, and its relevance in the current scientific landscape.

### **Course Overview**

The course was structured into several key modules, each designed to equip students with both theoretical knowledge and practical skills in applying QSAR models for environmental and toxicological assessments. The primary focus was on understanding the principles behind QSAR modeling, data preparation, model development, validation, and interpretation of results.

### **Modules and Topics Covered**

- Introduction to QSAR and Environmental Toxicology
- Basics of QSAR: Historical background and principles.
- Importance of QSAR in environmental toxicology.
- Overview of environmental pollutants and their effects.
- Chemoinformatics in QSAR Modeling
- Introduction to chemoinformatics tools and databases.
- Molecular descriptor calculation and selection.
- Representation of chemical structures for QSAR modeling.
- Statistical Methods and Model Building in QSAR
- Basic statistics for QSAR: correlation, regression analysis, and model validation techniques.
- Advanced modeling techniques: Machine Learning (ML) algorithms in QSAR.
- Case studies on QSAR model development and application.
- QSAR Models for Environmental Fate Prediction
- Predicting physicochemical properties affecting environmental distribution.
- Bioaccumulation and persistence models.
- Case studies on environmental fate prediction using QSAR.
- QSAR in Ecotoxicology

*T. Sarathyosh*

**PRINCIPAL**

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



- Assessment of acute and chronic toxicity to aquatic organisms.
- QSAR models for predicting toxicity in non-aquatic organisms.
- Regulatory aspects and guidelines for QSAR in ecotoxicological evaluations.
- QSAR and Risk Assessment
- Integrating QSAR models into environmental risk assessment frameworks.
- Case studies on the use of QSAR in risk assessment.
- Emerging Trends and Future Directions
- Novel approaches in QSAR modeling: Deep Learning and Artificial Intelligence.
- Challenges and limitations of current QSAR models.
- Future perspectives in QSAR applications for environmental chemistry and toxicology.

### Importance

The course is particularly relevant in today's context where the rapid screening and assessment of chemical substances are crucial for environmental protection and public health. It equips professionals and researchers with the skills to utilize QSAR models effectively, aiding in the prioritization of hazardous chemicals for further testing and regulatory action. Furthermore, the course emphasizes the importance of developing more accurate and reliable QSAR models to predict the environmental and toxicological profiles of novel compounds, thereby supporting sustainable chemical design and environmental stewardship.

### Conclusion

The "QSAR in Environmental Chemistry and Toxicology" course offers valuable insights and skills for those interested in applying QSAR methodologies to address environmental and toxicological challenges. By bridging theoretical knowledge with practical application, the course prepares participants to contribute significantly to the field of environmental science, ensuring the responsible management and assessment of chemical substances for a safer and healthier environment.

The QSAR in Environmental Chemistry and Toxicology course successfully achieved its objective of enhancing the knowledge and skills of B.Pharm IV Year and Pharm. D III Year students in this critical area of study. The course's success has paved the way for similar future initiatives to further enrich our students' academic and professional competencies.

### Learning Outcomes

Upon completion of the course, participants were able to:

Understand the foundational principles of QSAR and its application in environmental toxicology.

Utilize chemo-informatics tools for molecular descriptor generation and selection.

Develop and validate QSAR models using various statistical and machine learning techniques.

Apply QSAR models for predicting the environmental fate and toxicological effects of chemicals.

Integrate QSAR models into environmental risk assessment processes.

*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



**Program Organizer:**  
**SNVPMV,**  
**Department of Pharmacognosy**  
**Date: 04/02/2020**

*T. Sarathyosh*

**PRINCIPAL**

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



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# **“Emerging Trends 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

EMERGING TRENDS IN  
PHARMACEUTICAL  
ANALYSIS

### SPEAKERS

**Dr. B. Haarika**

Associate Professor, SNVPMV

**Dr. K. Neelima**

Associate Professor, SNVPMV

**Ms. Selina Sravanthi**

Assistant Professor, SNVPMV

**Mrs. Jimmy Devi**

Assistant Professor, SNVPMV

### COURSE COORDINATOR

**Ms. Selina Sravanthi**

Assistant Professor,  
SNVPMV



COURSE SCHEDULE  
16.03.2020 to 30.03.2020

*T. Sarathyosh*

PRINCIPAL

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



## Detailed Program Schedule

<b>Name of Class:</b> M. Pharmacy (Chem), Pharm D III Year & B Pharmacy IV Year	<b>Course:</b> Emerging trends in pharmaceutical analysis
<b>Duration of Course:</b> 12 Days (2.5 Hours)	<b>Duration:</b> March 16 <sup>th</sup> 2020 to March 30 <sup>th</sup> , 2020 <b>Time:</b> 2:30 PM - 5:00 PM

**Dates:** March 16<sup>th</sup> 2020 to March 30<sup>th</sup>, 2020

**Time:** 2:30 PM - 5:00 PM

**Duration:** 30 Hours

**Number of students attended:** 56

**Organized by:** Sarojini Naidu Vanita Pharmacy Maha Vidyalaya

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

**Schedule:** Emerging trends in pharmaceutical analysis

Session	Date	Topic Name
1	16-03-2020	"Advancements in Miniaturization and Automation: Revolutionizing Pharmaceutical Analysis"
	17-03-2020	
2	18-03-2020	"Accelerating Innovation: High-Throughput Screening in Drug Discovery and Development"
	19-03-2020	
3	20-03-2020	"Precision in Pharma: Exploring Mass Spectrometry for Identification and Quantification of Pharmaceuticals"
4	21-03-2020	"Unveiling Insights: Bio-analytical Chemistry in the Determination of Drugs and Biological Molecules in Biological Samples"
5	23-03-2020	"Omics in Action: Exploring Technologies for Unraveling Drug Effects on the Human Body"
6	24-03-2020	"Microbial Insight: Advancing Pharmaceutical Quality through Microbiology Analysis"
7	26-03-2020	"Exploring Nature's Pharmacy: Analyzing Natural Products for Drug Discovery and Development"
8	27-03-2020	"Bioactive Bounty: Unveiling Potential Pharmaceuticals through Natural Products Analysis"
9	28-03-2020	"Analytical Frontiers in Forensic Pharmaceutical Investigations: Bridging Chemistry and Crime Investigation"
	30-03-2020	

### **Course outcomes:**

Upon completion of the program, participants were able to:

1. Understand the latest trends and technologies in pharmaceutical analysis
2. Apply their knowledge to the analysis of pharmaceutical products
3. Troubleshoot and optimize analytical methods
4. Interpret and report analytical data

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Vijayapuri Colony, S.Lalaguda, Tamaka  
Secunderabad-500 017.



## **Value Added Course Report**

**Title:** "Emerging trends in pharmaceutical analysis"

**Duration:** 30 Hours

**Dates:** 16<sup>th</sup> March 2020 to 30<sup>th</sup> March 2021

**Time:** 2:30 pm-5:00 pm

**Number of students attended: 56**

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

### **Introduction:**

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya, Hyderabad, India, hosted a 30-hour Value added program in pharmaceutical analysis for emerging trends in pharmaceutical analysis during the 2021–2022 academic year. The curriculum was created to give students the information and abilities needed to do pharmaceutical analysis in emerging trends in pharmaceutical analysis.

### **Program Overview**

The 30-hour Value added program on Emerging Trends in Pharmaceutical Analysis was organized by Sarojini Naidu Vanita Pharmacy Maha Vidyalaya, Hyderabad, India during the academic year 2021-2022. The program was designed to provide students with the knowledge and skills necessary to stay up-to-date on the latest trends and technologies in pharmaceutical analysis.

### **Key Session Highlights**

Session 1: Advancements in Miniaturization and Automation: Revolutionizing Pharmaceutical Analysis

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

This session provided participants with an introductory overview of Advancements in Miniaturization and Automation: Revolutionizing Pharmaceutical Analysis

Session 2: "Accelerating Innovation: High-Throughput Screening in Drug Discovery and Development"

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

Providing information on High-throughput screening (HTS) which is a critical technique employed in the early stages of drug development to test many compounds quickly and efficiently for their biological activity.

Session 3: "Precision in Pharma: Exploring Mass Spectrometry for Identification and Quantification of Pharmaceuticals"

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

The topic "Precision in Pharma: Exploring Mass Spectrometry for Identification and Quantification of Pharmaceuticals" gives information on how to focus on the use of mass spectrometry (MS) as a powerful analytical technique in the pharmaceutical industry.

*T. Sarathyosh*

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Vijayapuri Colony, S.Lalaguda, Tarnaka  
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Session 4: "Unveiling Insights: Bioanalytical Chemistry in the Determination of Drugs and Biological Molecules in Biological Samples"

Speaker Name: **Mrs. Jimmy Devi, Assistant Professor, Department of Pharm D**

Providing information on determining medications and other biological substances in biological samples is a critical function of bioanalytical chemistry. In this discipline, different chemicals in biological matrices are studied and quantified using analytical methods.

Session 5: "Omics in Action: Exploring Technologies for Unraveling Drug Effects on the Human Body"

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

Provide information on "Omics technologies, encompassing genomics, transcriptomics, proteomics, metabolomics, and other related fields, have revolutionized the study of the effects of drugs on the human body". These high-throughput techniques enable comprehensive analyses of biological molecules, providing a systems-level understanding of drug responses.

Session 6: "Microbial Insight: Advancing Pharmaceutical Quality through Microbiology Analysis"

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

This session provided participants with a specialized field that focuses on the study of microorganisms and their interactions with pharmaceutical products. The analysis of microorganisms in pharmaceutical products is critical to ensure product safety, quality, and efficacy.

Session 7: "Exploring Nature's Pharmacy: Analyzing Natural Products for Drug Discovery and Development"

Speaker Name: **Mrs. Jimmy Devi, Assistant Professor, Department of Pharm D**

This session provides information on natural products analysis for potential use as drugs involves the identification, isolation, characterization, and evaluation of bioactive compounds derived from natural sources, such as plants, microbes, marine organisms, and fungi.

Session 8: "Bioactive Bounty: Unveiling Potential Pharmaceuticals through Natural Products Analysis"

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

This session provides information on how to Analyze herbal medicine for safety and efficacy and involves a comprehensive assessment of the chemical composition, biological activities, potential toxicity, and therapeutic effects of herbal products. This process is crucial to ensure the safety of consumers and to establish the scientific basis for the claimed therapeutic benefits.

Session 9: "Analytical Frontiers in Forensic Pharmaceutical Investigations: Bridging Chemistry and Crime Investigation"

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

This session provides information on how Forensic pharmaceutical analysis involves the application of analytical chemistry techniques to investigate pharmaceutical-related incidents,

*T. Sarathyosh*

PRINCIPAL

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





crimes, and legal issues. This specialized field plays a crucial role in providing scientific evidence in legal proceedings related to pharmaceuticals.

**Key Learning's:**

- Integrate and apply state-of-the-art analytical techniques in pharmaceutical analysis.
- Develop specialized analytical approaches for the characterization of biopharmaceuticals.
- Implement Quality-by-Design principles in pharmaceutical analysis.
- Harness the benefits of miniaturization and automation for increased efficiency and throughput.
- Integrate data science and artificial intelligence for advanced data analysis and decision-making.
- Align with and adapt to evolving regulatory requirements.

**Conclusion:**

The 30-hour Value added program on Emerging Trends 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: 5/08/2022.

*T. Sarathyosh*

**PRINCIPAL**

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



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# **“Evidence based Medicines and Guidelines for Pharmacist”**



## SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

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**DEPARTMENT OF PHARM D**  
**VALUE ADDED COURSE ON EVIDENCE BASED MEDICINES AND GUIDELINES FOR PHARMACIST**

**SPEAKERS**

- Mrs. M. Harini  
Assistant Professor, SNVPMV
- Dr. A. Prathyusha  
Assistant Professor, SNVPMV
- Mrs. O. Jimmy Devi  
Assistant Professor, SNVPMV
- Mrs. Sayeda Rabab Fathima  
Assistant Professor, SNVPMV

**COURSE COORDINATOR**

- Dr. Swarna Priyadarshini  
Assistant Professor SNVPMV

**COURSE SCHEDULE : 02.04.2020 to 17.04.2020**



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Date:24/3/2020

### CIRCULAR

This is to inform that All Pharm D students may register for a Value added course on "Evidence based Medicines and Guidelines for Pharmacist" as per the schedule given below. Hence all the students are highly encouraged to register and participate without fail.

Period of Certificate Program: 2<sup>nd</sup> April to 17<sup>th</sup> April, 2020 (2.5hr/Day)



*[Signature]*  
Principal

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



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### Detailed Program Schedule

<b>Name of Class:</b> All Pharm. D	<b>Course:</b> Evidence based Medicines and Guidelines for Pharmacist
<b>Duration of Course:</b> 12 Days	<b>Duration:</b> 2 & 1/2 Hours <b>Time:</b> 3:00 PM - 5:30 PM

**Dates:** 2nd April 22 to 17th April, 2020 (2.5hr/Day)

**Time:** 3:00 PM - 5:30 PM

**Duration:** 30 Hours

**Number of students attended:** 97

**Organized by:** Sarojini Naidu Vanita Pharmacy Maha Vidyalaya

**Coordinator:** Dr Swarna Priyadarshini, Assistant Professor, SNVPMV.

Session	Date	Topic Name
1	2 <sup>nd</sup> April, 2020	Overview of Evidence-Based Medicine
		Importance of Evidence-Based Practices in Pharmacy
		Introduction to Workshop Objectives and Structure
2	3 <sup>rd</sup> April, 2020	Understanding Research Designs
		Introduction to Randomized Controlled Trials (RCTs)
		Critical Appraisal of Study Designs
3	5 <sup>th</sup> April, 2020	Effective Literature Search Strategies
		Utilizing Online Databases and Resources
		Hands-on Practice: Conducting Literature Searches
4	7 <sup>th</sup> April, 2020	Principles of Critical Appraisal
		Evaluating Study Validity and Bias
		Practical Application: Critiquing Research Articles
5	8 <sup>th</sup> April, 2020	Insights from a Guest Speaker in the Field
		Real-World Examples of EBM Implementation
		Q&A Session with the Guest Lecturer
6	9 <sup>th</sup> April, 2020	Understanding Clinical Practice Guidelines
		Importance of Guidelines in Pharmacy
		Overview of Noteworthy Guidelines in Pharmacy
7	10 <sup>th</sup> April, 2020	Exploration of Recent Developments in EBM
		Emerging Trends and Innovations
		Opportunities and Challenges in Evidence-Based Pharmacy
8	11 <sup>th</sup> April, 2020	Introduction to Group Projects
		Assignment of Topics and Teams
		Guidelines for Project Work and Presentation

*T. Sarathyosh*

PRINCIPAL

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



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9	14 <sup>th</sup> April, 2020	Introduction to Group Projects: Importance in applying evidence-based practices.
		Assignment of Topics and Teams: Distribution of project topics and team formation.
		Guidelines for Project Work and Presentation: Detailed instructions for project requirements and presentation structure.
10	15 <sup>th</sup> April, 2020	Focused time for teams to work on projects.
		Faculty guidance in refining methodologies and literature reviews.
		Preliminary review and feedback on project progress.
11	16 <sup>th</sup> April, 2020	Extended time for refining and finalizing projects.
		Ongoing faculty support to address queries.
		Final review and preparation for upcoming project presentations
12	17 <sup>th</sup> April, 2020	Group Project Presentations
		Peer Evaluation and Feedback
		Recap of Key Learnings and Workshop Highlights
		Distribution of Value addeds and Closing Remarks

### Course outcomes:

After completion of this course, learners can

- 1. Foundational Understanding:** Participants will develop a strong foundational understanding of Evidence-Based Medicine (EBM), including its principles, methodologies, and significance in the field of pharmacy.
- 2. Research Methodology Proficiency:** Students will acquire proficiency in understanding various research methodologies, with a focus on critically appraising study designs, especially randomized controlled trials (RCTs).
- 3. Literature Search and Review Skills:** Participants will gain expertise in conducting effective literature searches, utilizing online databases, and critically reviewing research articles to extract relevant information.
- 4. Critical Appraisal Skills:** Students will be equipped with the skills necessary to critically appraise research articles, assessing study validity, identifying biases, and making informed judgments about the quality of scientific evidence.
- 5. Application of EBM in Pharmacy Practice:** Through guest lectures and practical exercises, participants will understand and demonstrate the application of Evidence-Based Medicine in real-world pharmacy practice scenarios.
- 6. Clinical Guidelines Comprehension:** Participants will be familiarized with clinical practice guidelines, understanding their importance and gaining insights into notable guidelines relevant to pharmacy practice.

*T. Sarathyosh*

PRINCIPAL

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



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7. **Awareness of Current Trends:** Attendees will be informed about current trends and innovations in Evidence-Based Pharmacy, staying abreast of emerging practices, technologies, and challenges in the field.
8. **Group Project Management:** Students will develop project management skills through the initiation, planning, and execution phases of group projects, fostering teamwork, collaboration, and effective communication.
9. **Hands-on Application:** The workshop will provide practical, hands-on experience through group projects, allowing participants to apply learned concepts to real-world scenarios, enhancing their problem-solving abilities.
10. **Effective Presentation Skills:** Participants will enhance their presentation skills by delivering project findings to peers, fostering the ability to communicate complex information in a clear and concise manner.
11. **Peer Evaluation and Feedback:** Through peer evaluation sessions, students will learn to provide constructive feedback, enhancing their ability to critically assess the work of others and receive feedback professionally.
12. **Course Integration:** The outcomes aim to integrate theoretical knowledge with practical skills, ensuring that participants can seamlessly apply evidence-based practices in their future roles as pharmacists.

### Value Added Course Report

**Title: Evidence based Medicines and Guidelines for Pharmacist**

**Academic Year 2019-2020**

**Dates: 2nd April 22 to 17th April, 2020 (2.5hr/Day)**

**Time: 3:00 PM - 5:30 PM**

**Duration: 30 Hours**

**Number of students attended: 97**

**Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya**

**Coordinator:** Dr Swarna Priyadarshini, Assistant Professor, SNVPMV.

**Speakers:** Mrs. M Harini, Assistant Professor,

Dr A Prathyusha Assistant professor,

Mrs. O. Jimmy Devi, Assistant Professor,

Mrs. Sayeda Rabab Fathima, Assistant Professor

#### **Introduction:**

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya successfully conducted a Value added program on "Evidence-Based Medicines and Guidelines for Pharmacists" during the academic year 2019-2020. The program aimed to enhance the knowledge and skills of pharmacy students in the application of evidence-based practices within the pharmaceutical field.

#### **Program Highlights:**

1. Workshop Structure:
  - Duration: 12 days (April 2, 2020, to April 17, 2020)
  - Daily Sessions: 2.5 hours per day

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### 2. Topics Covered:

- The workshop covered a range of topics, including the fundamentals of Evidence-Based Medicine, research methodology, literature search and review, critical appraisal of research articles, and the application of EBM in pharmacy practice.

### 3. Interactive Sessions:

- Engaging and interactive sessions were conducted, allowing participants to actively participate in discussions, case studies, and practical exercises.

### 4. Guest Lectures:

- Renowned experts and practitioners in the field delivered insightful guest lectures, providing valuable real-world perspectives on the application of EBM in pharmacy practice.

### 5. Hands-on Training:

- Participants received hands-on training in searching and accessing literature, critically appraising research articles, and applying evidence-based guidelines.

### 6. Group Projects:

- Students were involved in group projects, allowing them to apply the learned principles to practical scenarios and fostering teamwork and collaboration.

### 7. Project Presentations:

- The program concluded with participants presenting their group projects, showcasing their ability to integrate evidence-based practices into pharmacy-related scenarios.

### Conclusion:

The Value added program on Evidence-Based Medicines and Guidelines for Pharmacists at Sarojini Naidu Vanita Pharmacy Maha Vidyalaya was a resounding success. It not only enriched the knowledge base of participants but also equipped them with practical skills essential for their future roles in the field of pharmacy.



### Program Organizer:

SNVPMV,

Department of Pharmaceutical Chemistry

Date: 18/04/2020.

*T. Sarathyosh*

PRINCIPAL

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