LIST OF COURSES FOR THE A. Y 2022-23

S. No	Name of the course
1	Drug Discovery from Natural Products
2	Pharmaceutical Audits & Inspections: Preparing for Regulatory Scrutiny
3	QbD implementation strategies: from theory to practice
4	Artificial Intelligence (AI) in the Pharmaceutical Industry
5	Animal handling
6	Regulatory Affairs in Pharmaceutics
7	Clinical Trials and Research Methods
8	Hands-on Training on Analytical Instruments

T. Sai Yogesh

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SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA
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"Drug Discovery from Natural Products"

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Date: 04/07/2022

CIRCULAR

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

Period of Certificate Program: 11th July to 29th July 2022.

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Detailed Program Schedule

Name of Class: B. Pharm II year, B. Pharm III year	**Course:** "Drug Discovery from Natural Products"
Duration of Course: 15 Days	**Duration: 2 Hours** Time: 3:00 PM - 5:00 PM

Dates: 11th July to 29th July 2022.

Time: 3:00 PM – 5:00 PM

Duration: 30 hours

Number of students attended: 97

Organized by: Sarojini Naidu Vanita Pharmacy Mahavidyalaya

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

Schedule: "Drug Discovery from Natural Products"

Session	Date & Time	Topic Name
1	11/07/2022	Introduction to Medicinal Plants and Natural Products Introduction to instructors and faculty. Distribution of program materials.
2	12/07/2022	Historical use of medicinal plants. Ethical considerations and modern applications. Principles of Pharmacognosy and Phytochemistry
3	14/07/2022	Introduction to Pharmacognosy. Study of plant sources and their properties. Methods of plant identification.
4	15/07/2022	Phytochemical Analysis Techniques Techniques for isolating and identifying bioactive compounds.
5	16/07/2022	Hands-on lab experience in phytochemical analysis.
6	18/07/2022	Principles of quality control in herbal medicines. Regulatory standards and guidelines.
7	19/07/2022	Case studies on herbal product standardization.
8	20/07/2022	Practical exercises on herbal drug standardization. Analytical methods for quality assessment.
9	21/07/2022	Study of the use of plants in different cultures.
10	22/07/2022	Traditional knowledge and modern drug discovery.
11	23/07/2022	Ethical considerations in Ethno pharmacological research
12	26/07/2022	In-depth exploration of traditional medicine systems (e.g., Ayurveda, Traditional Chinese Medicine).
13	27/07/2022	Methods for screening the pharmacological activity of natural products.

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14	28/07/2022	In vitro and in vivo assays.
15	29/07/2022	Case studies on successful drug discovery from natural sources.

Course outcomes: After completion of this course, learners can

1. Understand an overview of Historical use of medicinal plants. Ethical considerations and modern applications
2. Understand Study of plant sources and their properties.
3. Explore the Methods of plant identification.
4. Practical Training on Techniques for isolating and identifying bioactive compounds.
5. Traditional knowledge and modern drug discovery.
6. In-depth exploration of traditional medicine systems (e.g., Ayurveda, Traditional Chinese Medicine).
7. Methods for screening the pharmacological activity of natural products both In vitro and in vivo assays

Value added Course Report

Title: Drug Discovery from Natural Products
Academic Year 2022-2023
Dates: July 11th to July 29th, 2022.
Time: 3:00 PM – 5:00 PM
Duration: 30 hours
Number of students attended: 97
Organized by: Sarojini Naidu Vanita Pharmacy Mahvidyalaya
Coordinator: Mrs. M. Rajeswari, Assistant Professor, Department of Pharmacognosy
Introduction: Drug Discovery from Natural Products aimed to offer a Comprehensive understanding the use of medicinal plants, Phytochemical Analysis, Practical exercises on herbal drug standardization, Case studies on successful drug discovery from natural sources. Spanning over 30hours.

Program Objectives
The primary objectives of the value added course were:

- To educate students about the significance of Natural products in drug discovery.
- To provide insights into the principles of pharmacognosy and phytochemistry.
- To offer practical knowledge about Herbal drug standardization and quality control.
- To promote an understanding of traditional medicine systems and their role in modern drug development.

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- To equip students with the skills and knowledge needed to pursue careers in natural product-based drug discovery.

Program Overview

The program comprised 15 sessions, each lasting 2 hours, and covered various aspects of Drug Discovery from natural sources, emphasizing the principles of Pharmacognosy and phytochemistry.

Key Session Highlights

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

Session 1: Medicinal Plants in History, Principles of Pharmacognosy and Phytochemistry

Speaker Name: Dr. V Jyothi, Professor & HOD, Department of Pharmacognosy, SNVPMV.

Session 2: Phytochemical Analysis Techniques

Speaker Name: Dr. P. Praneetha, Associate Professor, Department of Pharmacognosy, SNVPMV.

Session 3: Herbal Drug Standardization and Quality Control

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

Session 4: Ethnopharmacology and Traditional Medicine Systems

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

Session 5: Pharmacological Screening of Natural Products

Speaker Name: Dr. V Jyothi, Professor & HOD, Department of Pharmacognosy, SNVPMV.

Conclusion: The 30-hour Value added Program on Drug Discovery from Natural Products, organized by Sarojini Naidu Vanita Pharmacy Mahavidyalaya during the academic year 2022-23, was success. The program not only empowered students with essential knowledge but also ignited their passion for contributing to the field of Pharmacognosy and phytochemistry. We are confident that the skills and insights gained by the participants will prove beneficial in their future endeavors.

We express our gratitude to all the students, faculty members, and staff who made this program possible. Sarojini Naidu Vanita Pharmacy Mahavidyalaya remains committed to providing high-quality educational opportunities for aspiring pharmacists and pharmaceutical researchers.

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Program Organizer: SNVPMV
Department of Pharmacognosy
Date: 02/08/2022

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"Pharmaceutical Audits & Inspections: Preparing for Regulatory Scrutiny"

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA
(Sponsored by the Exhibition Society), Tarnaka, Secunderabad
Affiliated to Osmania University, Approved by AICTE & PCI
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Date:04-07-2022.

CIRCULAR

This is to inform that **M. Pharmacy (Quality Assurance) III Semester & B. Pharmacy III Year** students may register for a Value-Added Course on **"Pharmaceutical Audits & Inspections: Preparing for Regulatory Scrutiny"** as per the schedule given below. Hence all the students are highly encouraged to register and participate without fail.

Period of Certificate Program: 11th July to 29th July 2022

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Detailed Program Schedule

Name of Class: M. Pharmacy (QA) III Semester, B. Pharmacy III Year	**Course**: Pharmaceutical Audits & Inspections: Preparing for Regulatory Scrutiny
Duration of Course: 15 Days	**Duration**: 2 Hours **Time:** 3:00 PM - 5:00 PM

Dates: 11th July to 29th July 2022
Time: 3:00 PM - 5:00 PM
Duration: 30 Hours
Number of students attended: 42
Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Coordinator: Dr. B. SivaJyothi, Associate Professor, Department of Pharmaceutical Quality Assurance.
Schedule: Pharmaceutical Audits & Inspections: Preparing for Regulatory Scrutiny

Session	Date & Time	Topic Name
1	11/07/2022	Introduction to Pharmaceutical Audits & Inspections
2	12/07/2022	Types of audits and inspections
3	14/07/2022	Regulatory landscape and requirements
4	15/07/2022	Importance of audit preparedness
5	16/07/2022	Pre-audit activities and documentation
6	18/07/2022	Opening meeting and document review
7	19/07/2022	Walk-through inspections and interviews
8	20/07/2022	Closing meeting and exit interview
9	21/07/2022	Responding to audit findings and corrective actions
10	22/07/2022	Good Manufacturing Practices (GMP) compliance
11	23/07/2022	Data integrity and quality control
12	26/07/2022	Documentation management and record keeping
13	27/07/2022	Supply chain and vendor management
14	28/07/2022	Mock audits and simulations
15	29/07/2022	Communication skills for interacting with auditors

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Course outcomes:

After completion of this course, learners can

1. Understand the key terms and Identify the key areas of focus during pharmaceutical audits
2. Effectively communicate with auditors during the inspection process.
3. Explain the importance of data integrity and record keeping for audits.
4. **Summarize specific regulatory requirements for inspections by various agencies (e.g., FDA, EU GMP, WHO).**
5. Conduct mock audits and simulations to prepare for real inspections.
6. Maintain continuous improvement practices for ongoing audit readiness.

Value added Course Report

Title: "Pharmaceutical Audits & Inspections: Preparing for Regulatory Scrutiny"

Academic Year 2022-2023

Dates: 11th July to 29th July 2022
Time: 3:00 PM - 5:00 PM
Duration: 30 Hours
Number of students attended: 42
Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya

Coordinator: Dr. B. Siva Jyothi, Associate Professor, Department of Pharmaceutical Quality Assurance.

Speaker:

1. Dr. T. Mamatha, Professor & Head, Department of Pharmaceutical Quality Assurance, SNVPMV Speaker
2. Dr. S. Anuradha Professor, Department of Pharmaceutical Quality Assurance, SNVPM.
3. Mrs. R. Prasanthi, Assistant Professor, Department of Pharmaceutical Quality Assurance Speaker

Introduction

In the pursuit of academic excellence and in line with our commitment to fostering knowledge and skill development among our students, Sarojini Naidu Vanita Pharmacy Maha Vidyalaya organized a 30-hour Value added program on "Pharmaceutical Audits & Inspections: Preparing for Regulatory Scrutiny " during the academic year 2021-2022. The program was conducted from 11th July to 29th July 2022

Program Objectives

The program was designed with the following key objectives:

1. **Lectures and Workshops**: A series of expert-led lectures and interactive workshops were conducted, focusing on essential Practical Tools and Techniques for Audit Preparation and practices in the pharmaceutical sector.

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2. **Case Studies**: Real-life case studies were examined to understand quality challenges towards Specific Regulatory Requirements and Inspections.
3. **Regulatory Compliance**: Detailed discussions on regulatory compliance requirements and industry standards.
4. **Quality Audits**: Practical insights into quality audits and inspection preparation for students.
5. **Quality Improvement**: Strategies for continuous quality improvement and best practices.

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Program Overview

The certificate program on Pharmaceutical Audits & Inspections: Preparing for Regulatory Scrutiny was designed to provide students with in-depth knowledge of quality management practices in the pharmaceutical industry. The curriculum covered various aspects of Implementing corrective actions and CAPAs, Managing relationships with regulatory agencies, Continuous monitoring and improvement, quality assurance, compliance, and regulatory requirements, ensuring that participants gained a comprehensive understanding of the subject.

Key Session Highlights

Session 1: Introduction to Pharmaceutical Audits & Inspections: Preparing for Regulatory Scrutiny

This session provided participants with an introductory overview of Unveiling the Audit World: Demystifying different types of inspections and their impact on your work, Regulatory Maze: Navigating the complexities of GMP compliance across regions, Case Studies Unveiled: Learning from both success stories and missed steps in past audit

Session 2: Understanding the Audit Process

Participants delved into the core concepts of Auditing under the Microscope: Understanding the auditor's perspective and inspection process, Documenting Your Worth: Maintaining meticulous records for a seamless audit experience, Hot spots for Scrutiny: Unveiling key areas auditors focus on during inspections.

Session 3: Quality Management Systems (QMS) and Audit Preparation

Focusing on the application of Quality Management Tools in risk assessment, this session covered topics such as Regulatory Landscape Unveiled: Understanding specific requirements for FDA, EU GMP, WHO, and ICH inspections, Case Studies Revisited: Analyzing recent high-profile audit findings and their implications, Overcoming Common Pitfalls: Avoiding common audit deficiencies and ensuring compliance.

Session 4: Post-Audit Activities and Follow-Up

The session explored how Beyond the Audit Implementation of CAPAs, managing relationships with regulators, and continuous improvement, Q&A Wrap-up: Addressing any

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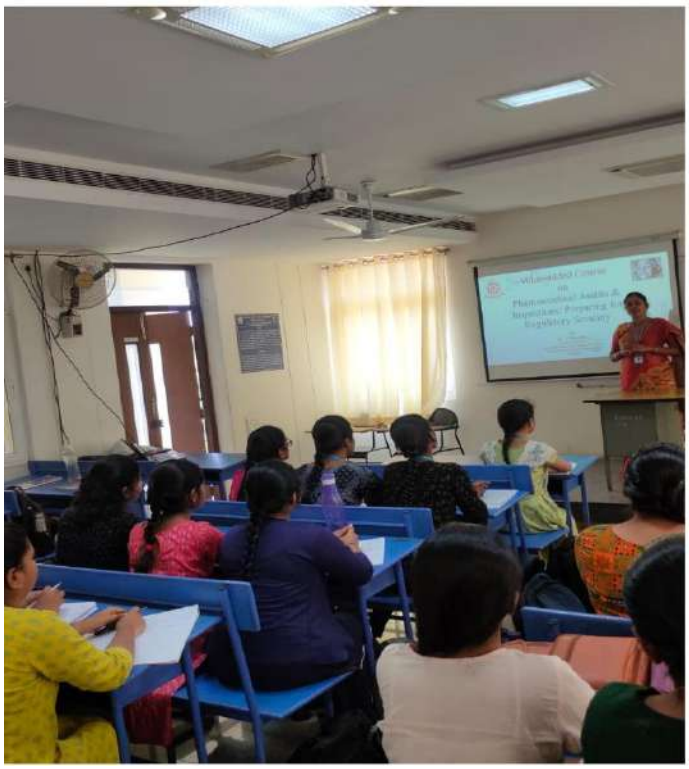
final questions and solidifying your course takeaways, Course Evaluation: Sharing your feedback and shaping future learning experiences.

Conclusion

The 30-hour Value added program on "Pharmaceutical Audits & Inspections: Preparing for Regulatory Scrutiny " was a resounding success. It not only enhanced the knowledge and skills of our students but also strengthened their understanding of the importance of quality audits in the pharmaceutical sector. This program, organized by Sarojini Naidu Vanita Pharmacy Maha Vidyalaya, contributed significantly to the academic growth and professional development of the participants. We express our gratitude to the instructors, students, and everyone involved in making this program a success. We remain committed to organizing such educational initiatives in the future to nurture and empower the next generation of pharmaceutical professionals.

Name of the Program: "Pharmaceutical Audits & Inspections: Preparing for Regulatory Scrutiny"



Program Organizer: SNVPMV,
Department of Pharmaceutical Quality Assurance
Date: 30/07/2022.

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"QbD Implementation Strategies: From Theory to Practice"

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

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DATE: 25.11.2022

CIRCULAR

This is to inform **M.Pharmacy I Year (Pharma Ceutics)** and **B.Pharmacy IV Year** students have value added course on "**QbD Implementation Strategies: From Theory to Practice**" as per the schedule given below. Hence all the students informed to attend the programme without fail.

1st December to 19th December, 2022

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Detailed Program Schedule

Name of Class: B. Pharmacy IV Year & M. Pharmacy I Year (Ph.Ceutics)	**Course**: QbD Implementation Strategies: From Theory to Practice
Duration of Course: 15 Days / 30 Hrs	**Duration**: December 1st to 19th, 2022 **Timings:** 3 P.M to 5.00 P.M

Dates: December 1st to December 19th, 2022
Time: 3:00 PM - 5:00 PM
Number of students attended: 46
Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Coordinator: Dr. S. Rohini Reddy, Assistant Professor, Department of Pharmaceutics.
Schedule: QbD Implementation Strategies: From Theory to Practice

Session	Date	Topic Name
1	1/12/2022	Introduction to QbD Welcome and Program Overview Key Concepts of Quality by Design (QbD)
2	2/12/2022	Risk-Based Approaches in QbD Understanding Risk Assessment and Management in QbD Practical Application of Risk-Based QbD
3	3/12/2022	QbD in Biopharmaceuticals QbD Applications in Biologics and Biosimilars Case Studies: QbD Success Stories in Biopharmaceuticals
4	5/12/2022	Continuous Manufacturing and QbD Integrating QbD into Continuous Manufacturing Processes Continuous Manufacturing Case Studies
5	6/12/2022	Formulation Design using QbD Principles Applying QbD in Drug Formulation and Development Formulation Optimization and QbD
6	7/12/2022	Regulatory Perspectives on QbD Global Regulatory Guidelines and Compliance QbD in Regulatory Submissions
7	8/12/2022	QbD in Generic Drug Development QbD Approaches in Generic Product Development Case Studies: QbD in Generic Drug Approval
8	9/12/2022	Patient-Centric QbD Tailoring Drug Delivery Systems for Patient Convenience Patient-Centric Case Studies
9	12/12/2022	Advanced Analytical Techniques in QbD Application of Modern Analytical Tools in QbD Real-time Monitoring and PAT in QbD

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10	13/12/2022	Emerging Technologies in QbD Future Trends and Innovations in QbD Green Chemistry and Sustainability in QbD
11	14/12/2022	Hands-on Training with QbD Software Practical Workshop: QbD Software Training Interactive Q&A Session
12	15/12/2022	Interactive Group Discussions on QbD Challenges Analyzing Real-world QbD Case Studies Certificate Distribution and Closing Remarks
13	16/12/2022	Capstone Project Introduction Capstone Project Guidelines and Expectations Forming Capstone Project Teams
14	17/12/2022	Capstone Project Work Session Guided Work Time for Capstone Projects Field Work
15	19/12/2022	Course Assessment Capstone Project Presentations and Certification

Course outcomes:

After completion of this course, learners can

1. Understand the key terms and concepts related to the Quality by Design (QbD). And explain the role of QbD Implementation Strategies: From Theory to Practice.
2. Understand the risk assessment and management in QbD, practical application of risk-based QbD.
3. Explain the QbD Applications in Biologics and Bio-similar, Modern Analytical Tools in QbD, Case Studies: QbD Success Stories in biopharmaceuticals, continuous manufacturing and Patient-Centric Case Studies.
4. Explore how QbD application in Drug Formulation and Development, Formulation Optimization.
5. Explore and understand the application of QbD in regulatory submission, generic development.
6. Explore current trends and emerging technologies in QbD Implementation Strategies: From Theory to Practice.

Value Added Course Report

Title: "QbD Implementation Strategies: From Theory to Practice"
Duration: 30 Hours
Dates: December 1st to 19th, 2022
Time: 3:00 PM - 5:00 PM
Number of students attended: 46
Coordinator: Dr.S.Rohini Reddy, Assistant Professor, SNVPMV.

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Introduction:

The 30-hour Value added Programme on "QbD Implementation Strategies: From Theory to Practice" was conducted from December 1 to December 19, 2022. The program aimed to provide participants with comprehensive insights into Quality by Design (QbD) 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 QbD implementation.

Program Highlights:

Session 1: Introduction and Fundamentals

Speaker Name: **Dr. T. Mamatha, Vice-Principal, SNVPMV, Hyderabad.**

The initial sessions focused on introducing the participants to QbD concepts. Fundamental aspects such as risk assessment, tools, and techniques were covered. Participants engaged in interactive discussions to understand the theoretical framework of QbD.

Session 2: Specialized Topics

Speaker Name: **Dr.B.Haarika, Professor, SNVPMV, Hyderabad**

Sessions during this period delved into specialized areas, including biopharmaceuticals, continuous manufacturing, generic drug development, and patient-centric QbD. Real-world case studies were analyzed, providing participants with practical insights into QbD applications in diverse scenarios.

Session 3: Advanced Techniques and Hands-on Training

Speaker Name: **Dr. T. Mamatha, Vice-Principal, SNVPMV, Hyderabad.**

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, Assistant Professor, SNVPMV, Hyderabad.**

The final sessions were dedicated to the capstone project, where participants formed teams and worked on real-life QbD scenarios. On Day 15th, participants presented their projects, showcasing their understanding of QbD implementation strategies.

Key Learning's:

Understanding of QbD Principles: Participants gained a strong understanding of the foundational principles of QbD, including risk assessment, continuous manufacturing, and regulatory compliance.

Practical Application: Hands-on sessions and case studies enabled participants to apply QbD concepts in real-world scenarios, enhancing their problem-solving skills.

Collaborative Learning: Group discussions and team-based capstone projects encouraged collaboration and knowledge exchange among participants, fostering a rich learning environment.

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Conclusion:

The 30-hour value added Programme on "QbD Implementation Strategies: From Theory to Practice" provided participants with a comprehensive understanding of QbD principles and their practical applications. The program's interactive approach, including hands-on sessions and capstone projects, ensured that participants could effectively implement QbD strategies in their professional endeavors. The engaging discussions and collaborative learning environment made the program a valuable experience for all attendees.

Program Organizer: SNVPMV,
Department of Pharmaceutics
Date: 21/12/2022.

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"Artificial Intelligence (AI) in the Pharmaceutical Industry"

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Date: 15/11/2022

CIRCULAR

This is to inform **M.Pharmacy I&II Year (Ceu & QA)** and **B.Pharmacy IV Year** students have Value added Course on **"Artificial Intelligence (AI) in the Pharmaceutical Industry"** as per the schedule given below. Hence all the students informed to attend the programme without fail.

1st December to 19th December, 2022

T. Sarithyosh
Principal

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Secunderabad-500 017.

Detailed Program Schedule

Name of Class: B. Pharmacy IV Year & M. Pharmacy I&II Year (Ceu & QA)	**Course**: Artificial Intelligence (AI) in the Pharmaceutical Industry
Duration of Course: 15 Days (2 Hours)	**Duration**: December 1st to 19th, 2022 **Timings:** 3 P.M to 5 P.M

Dates: December 1st to December 19th, 2022
Time: 3:00 PM - 5:00 PM
Duration: 30 Hours
Number of students attended: 54
Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Coordinator: Dr. S. Hemalatha, Professor, SNVPMV Mrs. S. Muni Sireesha, Assistant Professor, Department of Pharmaceutical Chemistry

1. Speakers: Dr. T. Sarita Jyostna, Professor, SNVPMV,
Associate Professor, SNVPMV
2. Deepankar Bhowmik, Associate solution Leader
Brane Enterprises Pvt Ltd, Mrs.
3. Mrs. S. Muni Sirisha
Schedule: Artificial Intelligence (AI) in the Pharmaceutical Industry

Session	Date	Topic Name
1	1/12/2022	Introduction to AI in Pharma Overview of AI Applications in the Pharmaceutical Industry Significance and Current Trends in AI for Pharma
2	2/12/2022	Basics of Machine Learning and Deep Learning Understanding Machine Learning and Deep Learning Concepts
3	3/12/2022	Applications of ML and DL in Pharmaceuticals
4	5/12/2022	AI in Drug Discovery and Development Role of AI in Drug Discovery Process
5	6/12/2022	Predictive Analysis and Computational Drug Design
6	7/12/2022	AI in Clinical Trials and Patient Data Analysis AI Applications in Clinical Trials Patient Data Analysis and Predictive Healthcare
7	8/12/2022	Robotics and Automation in Pharmaceutical Manufacturing Robotic Process Automation (RPA) in Pharma
8	9/12/2022	Natural Language Processing (NLP) and Text Mining in Pharma NLP Techniques and Their Applications Text Mining in Pharmaceuticals and Clinical Research
9	10/12/2022	AI-driven Automation in Manufacturing Processes
10	12/12/2022	Regulatory Compliance and Ethical Considerations Compliance in AI-aided Pharmaceutical Practices

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		Ethical Implications and Regulatory Frameworks
11	13/12/2022	AI Applications in Pharma co-vigilance and Drug Safety Utilizing AI for Pharma co-vigilance Drug Safety Assessment and AI Tools
12	14/12/2022	Group Discussions on Practical Implementation
13	15/12/2022	Case Studies and Practical Applications of AI in Pharma
14	16/12/2022	Real-world Examples and Case Studies Field Work
15	17/12/2022	Course Assessment Future Prospects and Challenges in AI for Pharma Emerging Trends and Future Directions in AI for Pharma Challenges and Opportunities

Course outcomes:

After completion of this course, learners can

1. Understand the key terms and concepts related to the pharmaceutical industry. And explain the role of AI in transforming industries, with a focus on pharmaceuticals.
2. Understand the importance of data in the pharmaceutical industry and explore different types of data used in drug development.
3. Explain basic machine learning concepts and algorithms. Understand how machine learning models can be applied to pharmaceutical data.
4. Explore how AI is used in target identification, validation and lead compound identification.
5. Explore and understand the application of AI in monitoring and ensuring drug safety, adverse event detection, and reporting.
6. Explore current trends and emerging technologies in AI and how they may impact the pharmaceutical industry.

Value Added Course Report

Title: "Artificial Intelligence (AI) in the Pharmaceutical Industry"
Duration: 30 Hours
Dates: December 1st to 19th, 2022
Time: 3:00 PM - 5:00 PM
Number of students attended: 54
Coordinator: Dr. S. Hemalatha, Professor, SNVPMV Mrs. S. Muni Sireesha, Assistant Professor, Department of Pharmaceutical Chemistry

Introduction:

The "Artificial Intelligence (AI) in the Pharmaceutical Industry" 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.

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Program Objectives

The program was designed with the following key objectives:

- Introduction to AI in Pharma: Providing an introduction to AI applications in the pharmaceutical industry.
- Machine Learning and Deep Learning Fundamentals: Exploring the fundamental concepts and applications of ML and DL in pharmaceutical research.
- AI Applications in Drug Discovery and Development: Understanding the role of AI in drug discovery and development processes.
- Practical Implementation and Case Studies: Showcasing practical use cases and real-world applications of AI in pharmaceutical scenarios.

Program Overview

The program comprised ten sessions, each lasting 3 hours, and covered various aspects of AI in the pharmaceutical industry, catering to the needs of professionals seeking to explore AI's potential in revolutionizing the sector.

Key Session Highlights

1. Introduction to AI in Pharma

This session provided participants with an introductory overview of AI applications in pharmaceutical sciences, emphasizing its significance and potential impact on the industry.

2. Fundamentals of Machine Learning and Deep Learning in Pharma

Participants delved into the core concepts of machine learning and deep learning, learning their applications in drug research, molecular analysis, and predictive modeling.AI in Drug

3.Discovery and Development

Focusing on the application of AI in drug discovery, this session covered topics such as target identification, compound optimization, and predictive analytics.

4. AI in Clinical Trials and Patient Care

The session explored how AI is transforming clinical trials and patient care, discussing predictive healthcare models and data-driven decision-making.

Conclusion

The "Artificial Intelligence (AI) in the Pharmaceutical Industry" Value added program successfully provided a strong foundational understanding of AI's applications in the pharmaceutical domain. Participants gained insights into the transformative potential of AI in drug discovery, clinical research, and patient care.

The program's success can be attributed to the dedicated instructors, comprehensive curriculum, and interactive sessions that facilitated an engaging learning environment, encouraging active participation and knowledge exchange. This report aims to encapsulate the essence and success of the program, shedding light on the potential of AI to reshape pharmaceutical practices and research.

We extend our gratitude to all participants, faculty members, and the organizing committee for their contributions to making this program a success.

Photos: **Artificial Intelligence (AI) in the Pharmaceutical Industry 2022-2023**

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Program Organizer: SNVPMV,
Department of Chemistry
Date: 20/12/2022.

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"Animal Handling"

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: 21/12/2022

CIRCULAR

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

Period of Certificate Program: December 27th to January 12th, 2023

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA TARNAKA SEC'BAD.

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Detailed Program Schedule

Name of Class: B. Pharm I Year & Pharm D I, IV & V Year	**Course**: On Animal Handling
Duration of Course: 15 Days	**Duration**: 2 Hours **Time:** 3:00 PM - 5:00 PM

Dates: December 27th to January 12, 2023
Time: 3:00 PM - 5:00 PM
Duration: 30 Hours
Number of students attended: 172
Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Coordinator: Mrs. S. Divya, Assistant Professor, SNVPMV.
Schedule: On Animal Handling

Session	Date & Time	Topic Name
1	27/12/2022	Understanding Animal Behavior and Communication
2	28/12/2022	Safety Protocols and Risk Management
3	29/12/2022	Restraint Techniques for Different Species
4	30/12/2022	Health and Welfare Considerations
5	31/12/2022	Basic Animal Health Assessment Recognizing Signs of Distress and Pain
6	1/1/2023	Welfare Standards and Guidelines Practical Exercise: Assessing Animal Welfare in Various Environments
7	2/1/2023	Legal and Ethical Issues in Animal Handling
8	3/1/2023	Overview of Animal Welfare Laws and Regulations Ethical Dilemmas in Animal Handling
9	4/1/2023	Practical Sessions and Workshops
10	5/1/2023	Rotating Practical Stations: Companion Animal Handling (Dogs, Cats) Livestock Handling (Cattle, Sheep, Goats)
11	6/1/2023	Exotic Animal Handling (Optional, based on availability) Wildlife Handling (If applicable, based on local regulations)
12	7/1/2023	Assessments and Review
13	9/1/2023	Written Quizzes on Theory Concepts Practical Demonstrations of Handling Techniques Review Sessions and Q&A with Instructors
14	10/1/2023	Certification Ceremony
15	11/1/2023	Presentation of Certificates to Participants Closing Remarks and Feedback Session

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Course outcomes:

After completion of this course, learners can

1. Demonstrate Knowledge: Participants will demonstrate a comprehensive understanding of animal behavior, communication, safety protocols, restraint techniques, health considerations, and legal and ethical issues related to animal handling.
2. Apply Safe Handling Practices: Participants will apply appropriate safety protocols and risk management strategies to ensure the safety of both themselves and the animals being handled in various contexts.
3. Utilize Effective Restraint Techniques: Participants will demonstrate proficiency in using a variety of restraint techniques tailored to different species, considering the size, behavior, and individual needs of the animals.
4. Assess Animal Health and Welfare: Participants will be able to assess and recognize signs of distress, pain, and overall welfare in animals, applying appropriate measures to ensure their well-being during handling procedures.
5. Adhere to Legal and Ethical Standards: Participants will understand and adhere to relevant laws, regulations, and ethical guidelines governing animal handling practices, promoting responsible and compassionate treatment of animals.

Value Added Course Report

Title: On Animal Handling

Academic Year 2022-2023

Dates: December 27th to January 12th, 2023

Time: 3:00 PM - 5:00 PM

Duration: 30 Hours

Number of students attended: 172

Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya

Coordinator: Mrs. S. Divya, Assistant Professor, SNVPMV.

Speakers: Dr. T. Venu, Professor, SNVPMV.
Dr V Santhoshini, Assistant Professor, SNVPMV.
Dr Hadiya Iram, Assistant professor, SNVPMV.
Dr A Sujala, Assistant Professor, SNVPMV.
Dr K. Jithender, Assistant Professor, SNVPMV.

Program Overview: The Animal Handling Value added Program, organized by [Organization Name], aimed to provide participants with comprehensive knowledge and practical skills in the safe and ethical handling of animals. The program, conducted over [duration], covered essential topics including animal behavior, safety protocols, restraint techniques, health considerations, and legal and ethical issues.

Participants: The program attracted [number of participants] enthusiastic individuals from diverse backgrounds, including veterinary professionals, animal shelter volunteers, students, and individuals aspiring to work in animal-related fields. Participants demonstrated a strong interest in expanding their knowledge and skills in animal handling practices.

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Curriculum: The program curriculum was carefully crafted to cover a wide range of relevant topics, including:

Understanding Animal Behavior and Communication
Implementing Safety Protocols and Risk Management Strategies
Utilizing Restraint Techniques for Different Species
Assessing Animal Health and Welfare
Adhering to Legal and Ethical Standards in Animal Handling

Program Activities: The program activities included engaging lectures, interactive workshops, hands-on practical sessions, and assessments to reinforce learning and skill development. Participants had the opportunity to apply theoretical knowledge in simulated scenarios and real-life settings, guided by experienced instructors.

Achievements and Outcomes: Throughout the program, participants demonstrated significant growth in their understanding and proficiency in animal handling practices. Key outcomes included:

- Enhanced knowledge of animal behavior, safety protocols, and legal requirements.
- Improved practical skills in safely restraining and managing various species of animals.
- Increased awareness of animal welfare considerations and ethical responsibilities.
- Certification in Animal Handling, recognizing participants' dedication and competency in the field.

Conclusion: The Animal Handling Value added Program provided participants with valuable knowledge, skills, and practical experience essential for responsible and compassionate animal care. The program's success was evident in the enthusiastic participation and positive feedback from participants, highlighting its effectiveness in meeting the diverse needs of individuals involved in animal handling.

Program Organizer: SNVPMV,
Department of Pharm D
Date: 13/1/2023

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"Regulatory Affairs in Pharmaceutics"

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: 17.04.2023

CIRCULAR

This is to inform **M.Pharm I Year (Pharma Ceutics), Pharm.D IVyear, Vyear & B.Pharm IV Year** students have value added course on "**Regulatory Affairs in Pharmaceutics**" as per the schedule given below. Hence all the students informed to attend the programme without fail.

24th April to 11th May, 2023

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA TARNAKA, SEC-BAD.

T. Sarivyosh

Principal

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Secunderabad-500 017.

Detailed Program Schedule

Name of Class: M.Pharm I Year (Ph. Ceutics), Pharm. D IV yr, V yr &B.Pharm IV Year	**Course**: Regulatory Affairs in Pharmaceutics
Duration of Course: 12 Days/ 30 Hrs	**Duration**: 24th April to 11th May, 2023 **Timings:** 3 P.M to 6 P.M

Dates: 24th April to 11th May, 2023
Time: 3:00 PM - 5:30 PM
Duration: 30 Hours
Number of students attended: 55
Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Coordinator: Dr. M. Swetha, Associate Professor, Department of Pharmaceutics.
Schedule: Regulatory Affairs in Pharmaceutics

Session	Date	Topic Name
1	24-04-2023	Course Introduction and Overview
		Global Regulatory Agencies and Frameworks
2	25-04-2023	Drug Development Process
		The Role of Regulatory Affairs
3	26-04-2023	Regulatory Submissions and Documentation
4	27-04-2023	Good Manufacturing Practices (GMP)
5	28-04-2023	Quality Control and Quality Assurance
6	01-05-2023	Quality Risk Management
7	02-05-2023	Regulatory Compliance and Audits
8	03-05-2023	Regulatory Affairs in Clinical Trials
9	04-05-2023	Pharma co-vigilance and Post-Market Surveillance
10	08-05-2023	Regulatory Challenges and Market Access
11	10-05-2023	Emerging Technologies in Regulatory Affairs
		Final Project and Case Studies
		Field Work
12	11-05-2023	Course Assessment
		Certification

Course outcomes:
After completion of this course, learners can
1. Understand the key terms and concepts related to Regulatory Affairs in Pharmaceutics.
2. Examine the process of drug discovery and development.
3. Compare the various principles of regulatory approval process and regulatory authorities.
4. Discriminate the registration of Indian drug product in overseas market.
5. Associate the protocols to conduct clinical trials.
6. Compare various regulatory concepts.

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Value Added Course Report

Title: "Regulatory Affairs in Pharmaceutics"
Duration: 30 Hours
Dates: 24th April to 11th May, 2023.
Time: 3:00 PM - 5:30 PM
Number of students attended: 55
Coordinator: Dr. M. Swetha, Associate Professor, SNVPMV.
Speakers Name:

1. Dr. N. Srinivas, Director, SNVPMV.
2. Dr. S. Rohini Reddy, Assistant Professor, SNVPMV.
3. Dr. Ch. Shanthi Priya, Assistant Professor, SNVPMV.

Executive Summary:

This report outlines a comprehensive 30-hour value added course plan on "Regulatory Affairs in Pharmaceutics." The course is designed to provide participants with a profound understanding of the regulatory aspects governing the pharmaceutical industry, with a focus on pharmaceutics. The curriculum spans 15 days, with daily sessions lasting 2.5 hours each. It covers fundamental concepts, regulatory processes, quality assurance, and compliance in the pharmaceutical field.

Course Overview:

- **Course Objective:** The primary goal of this course is to equip participants with the knowledge and skills required to navigate the complex landscape of regulatory affairs in pharmaceutics, ensuring the safe and effective production of pharmaceutical products.
- **Duration:** The course spans 30 hours, with daily sessions lasting 2.5 hours each. It is designed to be completed over 15 days.

Course Delivery:

The course will be delivered through a combination of lectures, case studies, practical exercises, and interactive discussions. Participants will also have the opportunity to work on case studies, analyze real-world regulatory scenarios, and participate in group discussions to apply their knowledge.

Assessment and Certification:

Participants will be assessed through participation in group discussions, case study analysis, quizzes, and a final examination. Successful participants will receive a certification upon course completion.

Conclusion:

The 30-hour value added course on "Regulatory Affairs in Pharmaceutics" offers a comprehensive learning experience, equipping participants with the knowledge and skills to navigate the regulatory landscape of the pharmaceutical industry. The course plan serves as a valuable resource for professionals, researchers, and students seeking to excel in regulatory affairs within the pharmaceutics field.

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Regulatory affairs are crucial to ensuring the safety and efficacy of pharmaceutical products. This course promotes compliance, quality, and adherence to global regulations, contributing to advancements in the pharmaceutical industry and ensuring the well-being of patients.

Program Organizer:
Associate Professor,
SNVPMV,
Department of Pharmaceutics
Date: 12/05/2023.

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"Clinical Trials and Research Methods"

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: 17/4/2023

CIRCULAR

This is to inform that **M Pharmacy I Year (All), Pharm D III, IV & V Year & B Pharmacy IV Year** students may register for a Value added course on **"Clinical Trials and Research Methods"** as per the schedule given below. Hence all the students are highly encouraged to register and participate without fail.

Period of Certificate Program: April 24th to May 11th, 2023

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA TARNAKA SECUNDERABAD

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Detailed Course Schedule

Name of Class: M. Pharmacy I Year (All), Pharm D III, IV, V years & B. Pharmacy IV Year	**Course**: **Clinical Trials and Research Methods**
Duration of Course: 12 Days	**Duration**: 2.5 Hours and 2 hrs **Time:** 3:00 PM - 5:30 PM

Dates: April 24th to May 11th, 2023.
Time: 3:00 PM - 5:30 PM
Duration: 30 Hours
Number of students attended: 142
Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Coordinator: Ms. S. Divya, Assistant Professor Department of Pharm D.
Schedule: Clinical Trials and Research Methods

Session	Date & Time	Topic Name
1	24/4/2023	Introduction to Clinical Trials
		- Overview of clinical trial phases and objectives
		- Importance of clinical trials in drug development
2	25/4/2023	Research Methodologies in Pharmaceutical Studies
		- Designing and conducting experiments
		- Formulating research questions
		- Different research methodologies in pharmaceutical studies
3	26/4/2023	Ethical Considerations in Clinical Research
		- Ethical principles and guidelines in research
		- Addressing ethical dilemmas in clinical trials
4	27/4/2023	Hands-On Training: Data Collection and Statistical Analysis
		- Practical exercises in data collection
		- Introduction to statistical analysis
		- Interpreting research findings
5	28/4/2023	Industry Insights in Clinical Research
		- Perspectives from industry professionals
		- Current trends and innovations in clinical research
6	1/5/2023	Review and Practical Application
		- Review of concepts covered so far
		- Application of knowledge in practical scenarios
7	2/5/2023	Designing Research Protocols and Regulatory Guidelines
		- Components of a well-designed research protocol
		- Regulatory guidelines governing clinical trials
8	3/5/2023	Simulated Clinical Trial Scenarios

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		- Simulation of clinical trial scenarios
		- Practical application of learned concepts
9	4/5/2023	Ethical Decision-Making and Case Studies
		- Navigating ethical considerations in research
		- Case studies highlighting ethical dilemmas
10	8/5/2023	Guest Lectures: Recent Trends and Challenges in Clinical Research
		- Exploration of recent developments
		- Emerging challenges and opportunities
11	10/5/2023	Effective Communication of Research Findings
		- Developing effective communication skills
		- Articulating complex information clearly
12	11/5/2023	Group Project Presentations and Course Conclusion
		- Presentations by student groups
		Recap of key learning's and highlights

Course outcomes:

After completion of this course, learners can

1. **Understanding of Clinical Trial Phases:**
   - Students will comprehend the different phases of clinical trials and the unique objectives and methodologies associated with each phase.

2. **Research Methodologies Proficiency:**
   - Participants will acquire proficiency in designing and conducting experiments, formulating research questions, and employing various research methodologies in pharmaceutical studies.

3. **Ethical Decision-Making:**
   - Students will develop a strong ethical foundation and demonstrate the ability to navigate and address ethical dilemmas inherent in clinical research.

4. **Hands-On Practical Skills:**
   - Through hands-on training, participants will develop practical skills in data collection, statistical analysis, and interpretation of research findings in a simulated clinical trial environment.

5. **Application of Regulatory Guidelines:**
   - Students will gain an understanding of regulatory requirements governing clinical trials and learn to design research protocols that align with these guidelines.

6. **Comprehensive Understanding of Clinical Research:**
   - Participants will develop a comprehensive understanding of the complexities and nuances of clinical research, integrating theoretical knowledge with practical application.

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7. **Effective Communication Skills:**
    - Students will enhance their communication skills, particularly in presenting research findings, ensuring they can articulate complex information clearly and professionally.

8. **Critical Appraisal and Interpretation:**
    - Participants will develop the ability to critically appraise research protocols, statistical analyses, and research findings, fostering a robust approach to interpreting scientific literature.

9. **Application of Evidence-Based Practices:**
    - The course will equip participants with the skills necessary to apply evidence-based practices in clinical research scenarios, ensuring a foundation for evidence-driven decision-making.

Value Added Course Report

Title: Clinical Trials and Research Methods
Academic Year 2022-2023
Dates: April 24th to May 11th, 2023.
Time: 3:00 PM - 5:30 PM
Duration: 30 Hours
Number of students attended: 142
Organized by: Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Coordinator: Ms. S. Divya, Assistant Professor Department of Pharm D.
Schedule: Clinical Trials and Research Methods

Introduction:

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya conducted an extensive Value added course on "Clinical Trials and Research Methods" during the academic year 2022-2023. The workshop, which spanned 16 days from April 24, 2023, to May 11, 2023, featured daily sessions of 2.5 hours and 2 hrs each. The program aimed to equip 142 participating students with comprehensive knowledge and skills related to clinical trials and research methodologies in the pharmaceutical field.

Program Highlights:
Speakers: Dr. T. Venu, Professor, Dr. V Santhoshini, Assistant Professor, Dr. Hadiya Irum Assistant professor, Dr. A. Sujala, Assistant Professor, Dr. K. Jithender Assistant Professor

Session 1: Introduction to Clinical Trials:
Speaker Name:

- Overview of the clinical trial process, phases, and regulatory requirements.
- Understanding the significance of clinical trials in drug development.

Session 2: Research Methodologies:
Speaker Name: Dr. T. Venu, Professor

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- In-depth exploration of various research methodologies in pharmaceutical studies.
- Practical exercises on designing research protocols and formulating research questions.

Session 3: Ethical Considerations in Research:
Speaker Name: Dr. V. Santhoshini, Assistant Professor,

- Discussion on ethical principles and guidelines governing clinical research.
- Case studies highlighting ethical dilemmas and their resolution in research.

Session 4: Hands-on Training:
Speaker/ Demonstrator: Dr. Hadiya Irum Assistant professor, Dr. A. Sujala Assistant Professor, Dr. K. Jithender Assistant Professor

- Practical sessions on data collection, statistical analysis, and interpretation of research findings.
- Simulation of clinical trial scenarios to enhance practical skills.

Session 5: Lectures:

- Invited experts delivering lectures on recent trends, challenges, and innovations in clinical research.
- Q&A sessions allowing students to interact.

Course Outcomes:

At the conclusion of the workshop, participants demonstrated a heightened understanding of clinical trials, research methodologies, and ethical considerations. They acquired practical skills through hands-on training and were exposed to real-world insights from industry experts. The workshop aimed to foster critical thinking, ethical decision-making, and the ability to contribute meaningfully to the pharmaceutical research landscape.

Conclusion:

The "Clinical Trials and Research Methods" workshop organized by Sarojini Naidu Vanita Pharmacy Maha Vidyalaya in the academic year 2022-2023 successfully enriched students' understanding of the complexities and nuances of clinical research. The program's design aimed to prepare future pharmaceutical professionals with the skills and knowledge necessary for ethical and effective contributions to the field.

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Program Organizer:
SNVPMV,
Department of Pharm D
Date: 12/5/2023.

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"Hands-on Training on Analytical Instruments"

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: 21-06-2023

CIRCULAR

This is to inform **B. Pharmacy IV Year students and M. Pharm (All Specializations)** students have Value added course on "**Hands on training on Analytical Instruments**" as per the schedule given below . Hence all the students informed to attend the programme without fail.

28th June to 13th July, 2023

Principal
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Secunderabad-500 017.

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(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: B. Pharmacy IV Year, M. Pharmacy students (All disciplines)	**Course:** Hands-on Training on Analytical Instruments
Duration of Course: 10 Days (3 Hours)	**Duration**: 28th June to 13th July **Time:** 3:00 PM - 6:00 PM

Dates: 28th June to 13th July, 2023
Time: 3:00 PM - 6:00 PM
Duration: 30 Hours
Number of students attended: 100
Organized by: Sarojini Naidu Vanita Pharmacy Mahavidyalaya
Coordinator: Dr. P. Vivek Sagar, Associate Professor Department of Pharmaceutical Chemistry.
Schedule: Hands-on Training on Analytical Instruments

Session	Date & Time	Speaker	Topic Name
Module 1: An Overview of Instrumental Analysis			
1	28/06/2023	Dr. K. Sirisha	**Types of instruments:** This section will discuss the different types of analytical instruments, including spectrometers, chromatographs, and mass spectrometers. It will discuss the principles of operation and the applications of each type of instrument
2	30/06/2023	Dr. K. Sirisha	**Schematic representation of components:** This section will discuss the schematic representation of the components of an analytical instrument. It will discuss the function of each component and how they work together to produce an analytical result.
3	01/07/2023	Dr. P. Vivek Sagar	**Calibration:** This section will discuss the proc calibrating an analytical instrument. Calibration process of ensuring that an instrument is providing a results
4	03/07/2023	Dr. K. Sirisha	**Spectral Interpretation (IR, NMR, Mass spectra):** This section will discuss the interpretation of spectral data from IR, NMR, and Mass spectra. It will discuss how to identify different compounds based on their spectral data.
5	04/07/2023	Dr. K. Sirisha	**Spectral Interpretation (IR, NMR, Mass**

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			spectra): This section will discuss the interpretation of spectral data from IR, NMR, and Mass spectra. It will discuss how to identify different compounds based on their spectral data.
6	04/06/2023	Dr. K. Sirisha	**Spectral Interpretation (IR, NMR, Mass spectra):** This section will discuss the interpretation of spectral data from IR, NMR, and Mass spectra. It will discuss how to identify different compounds based on their spectral data.
Module 2: Hands – on training			
7	05/06/2023	Dr. K. Neelima	**UV- Visible Spectrophotometer:** This section will provide hands-on training on the use of a UV-Visible Spectrophotometer. Participants will learn how to operate the instrument, prepare samples, and collect data.
8	06/07/2023	Dr. K. Neelima	**ATR- FTIR:** This section will provide hands-on training on the use of an ATR- FTIR. Participants will learn how to operate the instrument, prepare samples, and collect data.
9	10/07/2023	Dr. R. Swethasri	**HPLC:** This section will provide hands-on training on the use of a HPLC. Participants will learn how to operate the instrument, prepare samples, and collect data.
10	11/07/2023	Dr. P. Vivek Sagar	**LC-MS/MS:** This section will provide hands-on training on the use of a LC-MS/MS. Participants will learn how to operate the instrument, prepare samples, and collect data.
	12/07/2023		**Industrial visit:** This section will include an industrial visit to a pharmaceutical manufacturing facility. The industrial visit will provide students with an opportunity to see how analytical instruments are used in a real-world setting.

Course Outcomes:

Upon completion of this course, participants will be able to:

1. Identify different types of analytical instruments and their applications.
2. Understand the schematic representation of the components of an analytical instrument.
3. Calibrate an analytical instrument.
4. Interpret spectral data from IR, NMR, and Mass spectra.

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5. Operate a UV- Visible Spectrophotometer, ATR- FTIR, HPLC.
6. Prepare samples for analysis using these instruments.
7. Collect data from these instruments.
8. Communicate the results of analytical data in a clear and concise manner.

Value Added Course Report

Title: "Hands-on Training on Analytical Instruments"
Duration: 30 Hours
Dates: 28th June to 13th July, 2023
Time: 3:00 pm to 6:00 pm
Number of Students attended: 100
Coordinator: Dr. K. Neelima, Department of Pharmaceutical Analysis

Introduction:
This report summarizes the 30-hour Value added program on "Hands-on Training on Analytical Instruments" conducted by Sarojini Naidu Vanita Pharmacy Maha Vidyalaya during the academic year 2022-2023. The program aimed to provide students with practical experience in using various analytical instruments commonly employed in the pharmaceutical industry.

Program Objectives:
1. To equip students with the knowledge and skills necessary to operate various analytical instruments.
2. To provide hands-on experience in analyzing samples using analytical techniques.
3. To develop students' ability to interpret and analyze data generated from analytical instruments.
4. To enhance students' employability in the pharmaceutical sector.

Program Overview:
The program comprised 15 sessions, each lasting 2 hours, and covered various aspects of Analytical instrumentation.

Course Content:
The program covered a comprehensive range of topics related to analytical instrumentation, including:
- Introduction to analytical chemistry
- Principles and applications of various analytical techniques (e.g., UV spectroscopy, HPLC, FTIR)
- Sample preparation and handling
- Calibration and validation of instruments

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- Data analysis and interpretation

Speakers

The program was delivered by a team of experienced faculty members. They provided theoretical knowledge and practical guidance to the students throughout the program.
Dr. P. Vivek Sagar
Dr. K. Sirisha
Dr. .K. Neelima
Mrs. R. Swethasri

Conclusion

The 30-hour Value added program on "Hands-on Training on Analytical Instruments" was a successful initiative that equipped students with valuable skills and knowledge in analytical techniques. The program received positive feedback from the participants and achieved its objectives.

Key achievements of the program:

- 100 students gained hands-on experience with various analytical instruments.
- Students developed their understanding of important analytical techniques.
- Students honed their data analysis and interpretation skills.
- The program enhanced students' employability in the pharmaceutical sector.

Feedback from Participants

The feedback received from the participants was overwhelmingly positive. They appreciated the opportunity to gain hands-on experience with analytical instruments and found the course content to be relevant and informative. The participants also valued the expertise and guidance provided by the resource persons.

Conclusion and Recommendations

The 30-hour Value added program on "Hands-on Training on Analytical Instruments" was a successful initiative that equipped students with valuable skills and knowledge in analytical techniques. The program received positive feedback from the participants and achieved its objectives.

Conclusion

Through this enriching journey of hands-on training in analytical instruments, you have:

- Mastered the fundamentals of diverse analytical techniques: You gained practical experience with chromatography, spectroscopy, mass spectrometry, and potentially other instruments, understanding their principles, operation, and data interpretation.

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- Sharpened your analytical skills: You actively participated in experiments, calibrations, data analysis, and troubleshooting, honing your skills in problem-solving, critical thinking, and scientific reasoning.
- Gained confidence in instrument handling and data analysis: You confidently navigated instrument controls, analyzed complex data sets, and communicated your findings effectively, demonstrating your competence in practical laboratory work.
- Expanded your horizons for professional opportunities: You equipped yourself with valuable skills sought after in various fields, including research, quality control, environmental monitoring, and pharmaceutical development, opening doors to exciting career paths.

Program Organizer:
SNVPMV,
Department of Pharmaceutical Analysis
Date: 12th July, 2023

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