



SRI VENKATESWARA COLLEGE OF PHARMACY

(AUTONOMOUS)

RVS. Nagar, Chittoor, Andhra Pradesh

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FACULTY DEVELOPMENT CENTRE

JNT UNIVERSITY ANANTAPUR, ANANTHAPURAMU

Five Days Faculty Development Programme on

**“Navigating The Future of Pharmaceutical Sciences:
Educational Strategies for Excellence”**

Jointly Organized by

Department of Pharmacology

Sri Venkateswara College of Pharmacy (Autonomous)

**Accredited by PCI S AICTE, New Delhi, Affiliated to JNTUA, Ananthapuramu, Affiliated to
SBTET Vijayawada, Accredited by NAAC B++ Grade, Bengaluru, Accredited by NBA, New
Delhi, Ranked 79th by NIRF 2024 Rankings by MHRD, Govt.of.India.
RVS Knowledge District, Tirupati Road, Chittoor-517127**

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Faculty Development Centre, Jntua, Ananthapuramu

Conducted during 16th- 20th, December 2024

ABOUT THE COLLEGE:

Sri Venkateswara College of Pharmacy (SVCOP) was established in 2007 under the Srinivasa Educational Academy, which was founded in 1991. SVCOP is the brainchild of Bharatha Jyothi Dr. R. Venkataswamy Garu, a philanthropist and educationalist, with the objective of promoting quality technical education in the drought-prone Rayalaseema region. The institution aims to improve the employability of rural youth by supporting their holistic development.

SVCOP is approved by AICTE and PCI New Delhi, recognized under Section 2(f) & 12(B) of the UGC Act 1956, and permanently affiliated with JNTUA, Ananthapuramu. It is a JNTUA-approved Research Centre for Pharmaceutical Sciences, recognized for In-House R&D by DSIR, New Delhi. Additionally, the college is accredited by NBA, NAAC with a 'B⁺⁺' Grade, and has been granted autonomous status.

Since its inception, SVCOP has been recognized as one of the top 75 pharmacy colleges in India for seven consecutive years (2018–2024) in NIRF rankings. The institution is renowned for advanced research in areas such as Drug Delivery Systems and Phytochemical Screening, with funding exceeding Rs.500 lakhs from various government agencies.

ABOUT THE DEPARTMENT:

The Department of Pharmacology has modern infrastructure with advanced pharmacological screening instruments and is staffed by well-experienced and qualified faculty. The department offers a postgraduate program in Pharmacology as well as research and development opportunities. Furthermore, the department is recognized as a research centre for pursuing full-time Ph.D. programs in Pharmaceutical Sciences under JNTUA, Ananthapuramu.

ABOUT FDP

Objectives of the FDP:

- **Enhanced Knowledge:** Equip participants with improved teaching methodologies, professional development, and overall educational quality in the field of Pharmaceutical Sciences.
- **Research Opportunities:** Identify new research areas and foster collaborative opportunities, leading to potential publications, projects, and advancements in sustainable technology.
- **Curriculum Enrichment:** Enable participants to enhance teaching competence by adopting innovative pedagogy, technology integration, and interdisciplinary teaching approaches. The FDP seeks to equip educators, researchers, and professionals in Pharmaceutical Sciences with the latest strategies, tools, and innovations, aiming to foster excellence in teaching and research while addressing future challenges in pharmaceutical education.

CHIEF PATRON

Prof. H. Sudarsana Rao

Vice Chancellor (i/c), JNTUA, Ananthapuramu

PATRON

Prof. S. Krishnaiah

Registrar, JNTUA, Ananthapuramu

PROGRAMME DIRECTOR

Prof. G. Prasanthi

Director, Faculty Development Centre JNTUA, Ananthapuramu

CHAIRMAN

Dr. Ravuri Venkataswamy

Chairman, Sri Venkateswara College of Pharmacy (Autonomous), Chittoor

VICE CHAIRMAN

Dr. Ravuri V. Srinivas

Vice Chairman, Sri Venkateswara College of Pharmacy (Autonomous), Chittoor

CONVENOR

Dr. D. Jothieswari

Principal, SVCOP, Chittoor

COORDINATOR

Dr. C. Radhika

Professor, Department of Pharmacology, SVCOP, Chittoor

CO-COORDINATORS

Dr. V. Ragini,

Professor & HOD, SVCOP, Chittoor

ORGANIZING COMMITTEE

S.No	Name	Designation
1	Dr. J. Praveen Kumar	Professor
2	Dr. J. Gangadhar Naik	Professor
3	Dr. S. Raja Sekhar	Professor
4	Dr. B.K. Babu	Professor
5	Dr. A. Rajini	Professor
6	Mr. C.P. Sreekanth Reddy	Associate Professor
7	Mr. Y. Kesava	Associate Professor
8	Mrs. G.N.A. Lakshmi	Associate Professor
9	Dr. S. Ooha	Associate Professor
10	Mr. D.K. Sandeep	Associate Professor
11	Dr. B. Swarupa	Associate Professor
12	Mr. M.S. Riyazullah	Associate Professor
13	Mr. N. Audinarayana	Associate Professor
14	Mrs. T. Jasmine	Assistant Professor
15	Mr. T.M. Poorna Chandra	Assistant Professor
16	Dr. A. Jayasri	Assistant Professor
17	Mrs. A.V. Rajyalakshmi	Assistant Professor
18	Mrs. V. Sruthi Kumari	Assistant Professor
19	Dr. P. Pravallika	Assistant Professor
20	Mr. G. Naveen Kumar	Assistant Professor

AIM AND OBJECTIVES OF THE EVENT

Aim:

To advance the educational and research competencies of faculty members and researchers in Pharmaceutical Sciences through innovative strategies and tools.

Objectives:

1. To enhance knowledge of modern teaching methodologies and research trends in Pharmaceutical Sciences.
2. To provide insights into cutting-edge technologies and innovations for educational excellence.
3. To facilitate interdisciplinary collaboration and research opportunities among participants.
4. To promote curriculum development through the integration of innovative pedagogical approaches.
5. To foster a culture of continuous learning and improvement in academic practices.

Outcome of the Event

1. Improved teaching effectiveness and the adoption of innovative educational strategies.
2. Enhanced research capabilities and the identification of novel research areas.
3. Strengthened professional networks and collaborative opportunities among faculty members and researchers.
4. Practical application of advanced technologies in teaching and research.
5. Greater contribution to the development of Pharmaceutical Sciences through impactful publications and projects.

Speaker Schedule Overview

Day 1: December 2024

➤ **16th Inauguration Function: 9:30 AM – 11:00 AM**



- The inaugural ceremony of the Faculty Development Programme on “**Navigating the Future of Pharmaceutical Sciences: Educational Strategies for Excellence**” commenced on **16th December 2024** at **Sri Venkateswara College of Pharmacy (Autonomous), Chittoor**.
- The Chief Guest, **Dr. G.V. Nagesh Kumar**, Professor and Head, Department of Electrical and Electronics Engineering, JNTU College of Engineering, Kalikiri, delivered an insightful address on the integration of technology in academia. He emphasized the transformative role of technology in enhancing teaching methodologies and research practices, inspiring participants to embrace innovative tools for academic excellence.
- The event set the tone for a productive and enriching five-day program, fostering collaboration and knowledge-sharing among participants.

➤ **Session 1:**

Topic: CCSEA Guidelines to Conduct Experiments on Animals and Good Laboratory Practices

Speaker: Dr. R.V. Suresh Kumar, Professor, M.V.Sc, Ph.D, FAGE, Sri Venkateswara Veterinary University, Tirupati.

Time: 11:15 AM – 12:45 PM

Dr. Suresh Kumar's session on CCSEA Guidelines and Good Laboratory Practices provides comprehensive knowledge essential for conducting preclinical research. His expertise helps educators understand ethical guidelines and proper laboratory conduct, which are crucial for training future researchers in ethical scientific methods. Additionally, the session underscores the importance of continuous monitoring and evaluation to ensure compliance with both CCSEA and GLP standards. This includes the role of institutional animal ethics committees, routine inspections, and updates to protocols in response to evolving ethical standards and scientific advancements. Educators and researchers are encouraged to foster a culture of responsibility and transparency, promoting sustainable and humane practices in scientific inquiry. Through such initiatives, the session inspires participants to advance scientific knowledge while upholding the highest ethical standards.



➤ **Session 2 & 3:**

Topic: Digital Tools and Simulations in Pharmacology Education

Speaker: Dr. S. Kavimani, M.Pharm, PhD, Professor and Head, Department of Pharmacology, Mother Theresa Post Graduate & Research Institute of Health Sciences, Puducherry.

Time: 1:45 PM – 3:15 PM, 3:30 PM – 5:00 PM

Dr. Kavimani demonstrated the integration of digital tools and simulations to create engaging and efficient learning experiences in pharmacology education. This session highlights how virtual labs, interactive simulations, and digital platforms can provide safe, cost-effective environments for mastering pharmacological concepts, bridging theoretical knowledge with practical skills. Attendees will explore innovative approaches to using technology for enhancing accessibility, reinforcing decision-making in clinical scenarios, and aligning education with real-world applications. The session will also address challenges, best practices, and future trends, offering educators actionable insights for impactful teaching.



Day 2: 17th December 2024

➤ **Session 1 & 2:**

Topic: Hyphenated Analytical Techniques

Speaker: Dr. Adikay Sreedevi, M.Pharm, Ph.D, Professor, Institute of Pharmaceutical Technology, Sri Padmavati Mahila Visvavidyalayam, Tirupati

Time: 9:30 AM – 12:45 PM

Dr. A. Sreedevi's talk highlights the importance of hyphenated analytical techniques in modern pharmaceutical research. By combining chromatographic and spectroscopic methods, these techniques offer precise and efficient analysis of drug compounds, essential for quality control and advanced research. This session will explore the principles, applications, and advantages of techniques like GC-MS, LC-MS, and HPLC-FTIR, demonstrating their role in complex sample analysis across pharmaceuticals, biotechnology, and environmental studies. Case studies and practical insights will provide participants with actionable knowledge to leverage these methods effectively in research and industry.



➤ **Session 3 & 4:**

Topic: Design and Development of Collagen Scaffolds for Topical Drug Delivery

Speaker: Dr. V. Shanmugam, M.Pharm, Ph.D, Professor & Head, Dept of Pharmaceutics, Sree Vidyanikethan College of Pharmacy, Mohan Babu University, Tirupati.

Time: 1:45 PM – 5:00 PM

Dr. V. Shanmugam's work on collagen scaffolds showcases innovative advancements in pharmaceutical technology with practical applications in wound care and regenerative medicine. This session will explore the unique properties of collagen, such as biocompatibility and biodegradability, and its role in controlled drug release. Participants will gain insights into scaffold fabrication methods and their applications in dermatological treatments, supported by case studies and research findings. The discussion will emphasize the potential of collagen scaffolds to improve therapeutic outcomes and advance practices in pharmaceutical and biomedical fields.



Day 3: 18th December 2024

➤ **Session 1 & 2:**

Topic: Fostering a Culture of Safety: Training for Quality Improvement in Hospitals

Speaker: Dr. M. Rupesh Kumar, M.Pharm, Ph.D, Professor & Head, Dept of Pharmacology, Al-Ameen College of Pharmacy, Bangalore

Time: 9:30 AM – 12:45 PM

Dr. Kumar's focus on fostering a culture of safety and quality improvement in hospitals highlights essential practices for enhancing healthcare management. This session will provide insights into training programs that promote patient safety, reduce errors, and improve healthcare quality. Key topics include communication, risk assessment, and system-based thinking, supported by real-world case studies. Attendees will gain practical knowledge to design and implement safety-focused training programs, fostering collaboration, accountability, and continuous improvement in healthcare settings.



➤ **Session 3 & 4:**

Topic: Overview of Drug Development and Regulatory Approval

Speaker: Dr. K. Kavitha, M.Pharm, Ph.D, Professor & Head, Dept of Pharmaceutics, Nitte College of Pharmaceutical Sciences, Bengaluru

Time: 1:45 PM – 5:00 PM

Dr. Kavitha's session offers valuable insights into the drug development and regulatory approval processes, essential for pharmaceutical professionals and educators. It covers the critical stages from discovery to market approval, emphasizing preclinical research, clinical trials, and regulatory submissions. Participants will learn about the roles of authorities like the FDA and EMA in ensuring drug safety and efficacy, along with strategies for overcoming regulatory challenges. Case studies will illustrate practical applications, providing a clear understanding of best practices in navigating the approval pathways for innovative therapies.



Day 4: 19th December 2024

➤ **Session 1 & 2:**

Topic: Innovative Techniques in Extracting and Isolating Compounds from Natural Drugs

Speaker: Dr. S. Hemalatha, M.Pharm, Ph.D, Professor, Department of Pharmacognosy, Sri Ramachandra Institute of Higher Education and Research, Porur, Chennai

Time: 9:30 AM – 12:45 PM

Dr. S. Hemalatha's session showcases advanced research methods in pharmacognosy, focusing on innovative techniques for extracting and isolating bioactive compounds from natural drugs. Participants will learn about methods like supercritical fluid extraction (SFE), microwave-assisted extraction (MAE), and high-performance liquid chromatography (HPLC), which offer improved yield, purity, and efficiency compared to traditional approaches. Case studies and real-world examples will demonstrate how these techniques aid in discovering novel therapeutic agents from natural sources, emphasizing their applications in pharmaceuticals and nutraceuticals.



➤ **Session 3 & 4:**

Topic: Commercial Application of Glycosides in Herbal Industry

Speaker: Dr. S.M. Shaheedha, M.Pharm, MBA, Ph.D, Associate Professor, Crescent School of Pharmacy, BSARCIST, Vandalur, Chennai.

Time: 1:45 PM – 5:00 PM

Dr. S. M. Shaheedha's session explores the commercial potential of glycosides in the herbal industry, providing industry-oriented insights into their therapeutic properties and applications. Participants will learn about the role of glycosides in traditional medicine and modern pharmaceuticals, particularly in products for cardiovascular, anti-inflammatory, and anticancer treatments. The session will also cover key aspects like extraction, standardization, and regulatory considerations in the production of glycoside-based products. Case studies and industry examples will highlight the growing market for glycosides and their significant impact on the herbal sector.



Day 5: 20th December 2024

➤ **Session 1 & 2:**

Topic: IR/NMR Spectral Interpretations of Organic Compounds

Speaker: Dr. K. Lakshmi, M.Pharm, Ph.D, Professor & Dean, Chettinad School of Pharmaceutical Sciences, Chennai

Time: 9:30 AM – 12:45 PM

Dr. Lakshmi's session deepens participants' understanding of IR and NMR spectral interpretations, essential for advanced molecular analysis in pharmaceutical sciences. The session will cover the interpretation of IR spectra to identify functional groups and NMR spectra for deducing molecular structures. Topics will include analyzing proton (¹H) and carbon-13 (¹³C) NMR spectra, chemical shifts, splitting patterns, and coupling constants. Practical examples and case studies will help attendees refine their skills in using these techniques for identifying organic compounds in both research and industry.



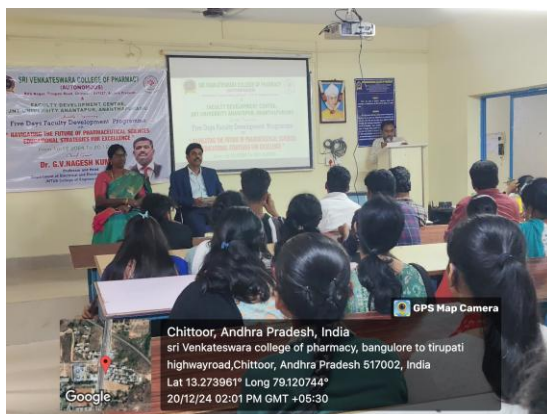
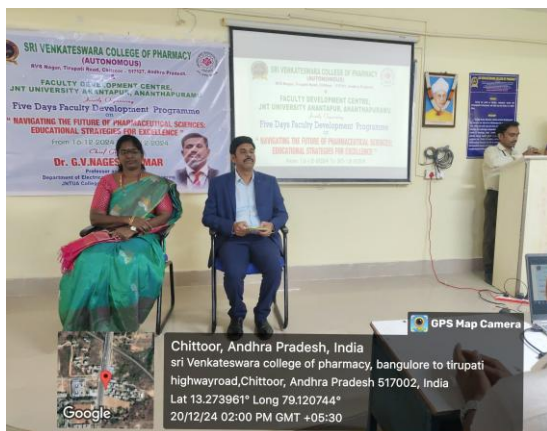
➤ **Session 3:**

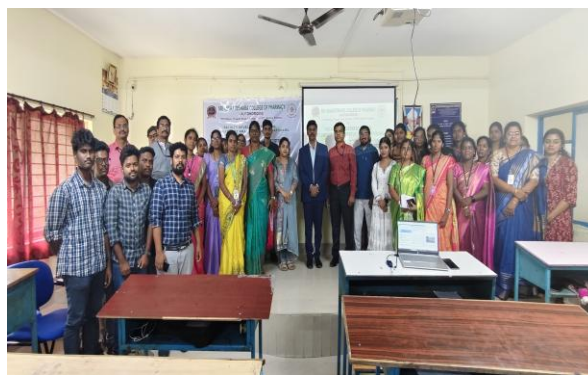
Topic: Core Concepts in Toxicological Emergencies: Supportive Approaches

Speaker: Dr. Kanala Jagadeeswara Reddy, PhD, Associate Director, Department of Toxicology, K J Reddy Biosciences Pvt Ltd, Tirupati

Time: 1:45 PM – 3:15 PM

Dr. Reddy's session provides valuable insights into managing toxicological emergencies, focusing on practical, life-saving approaches essential for emergency healthcare. Participants will learn the core concepts of initial assessment, stabilization, and treatment strategies for poisoning and overdose scenarios. The session will cover antidote use, decontamination techniques, and advanced supportive therapies such as respiratory and cardiovascular support. Emphasizing the early recognition of toxicological emergencies, Dr. Reddy will guide participants through real-life case studies and best practices, enhancing clinical decision-making and patient outcomes in emergency settings.





Valedictory Function Report: Faculty Development Programme

Date: 20th December 2024

The valedictory function of the JNTUA-supported Faculty Development Programme on “**Navigating the Future of Pharmaceutical Sciences: Educational Strategies for Excellence**”, held from 16th to 20th December 2024, marked the successful conclusion of this five-day event at **Sri Venkateswara College of Pharmacy (Autonomous), Chittoor**.

The esteemed Chief Guests, **Dr. K. Lakshmi**, Professor and Dean at Chettinad School of Pharmaceutical Sciences, Chennai, and **Dr. Kanala Jagadeeswara Reddy**, Associate Director, Department of Toxicology, K J Reddy Biosciences Pvt. Ltd, Tirupati, presided over the ceremony and delivered thought-provoking addresses.

Highlights of the Valedictory Session:

1. Concluding Remarks:

- **Dr. K. Lakshmi** commended the comprehensive sessions conducted during the FDP, emphasizing their practical relevance to pharmaceutical education and research. She highlighted the importance of continuous professional development for faculty members in adapting to evolving educational methodologies and research trends.
- **Dr. Kanala Jagadeeswara Reddy** appreciated the enthusiastic participation and active engagement of attendees throughout the program. He reflected on the insights shared

during his session on toxicological emergencies, urging educators to integrate real-world applications into their teaching and research practices.

2. Certificate Distribution:

- The Chief Guests, along with the organizing team, distributed certificates of participation to all attendees, recognizing their dedication to enhancing their teaching and research skills.

3. Acknowledgements:

- **Dr. D. Jothieswari**, Principal and **Dr. C. Radhika** Coordinator of the FDP, expressed gratitude to the Chief Guests, speakers, and participants for their contributions to the success of the FDP. Special thanks were extended to the **Faculty Development Centre, JNTUA**, for its support in organizing the event.

4. Conclusion:

- The valedictory function concluded on a patriotic note with the singing of the **National Anthem**, symbolizing unity and collective dedication to excellence in education and research.

The program was hailed as a significant milestone in fostering innovation and advancing the quality of pharmaceutical sciences education and research. Participants departed with a renewed commitment to implementing their learnings for the betterment of academia and industry.

Valedictory Gallery





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