







# VIDYALAYA



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We cordially invite you to the lecture on "Application of Radiation Technology in **Biomedical Sciences**"

Organized by: Department of Pharmaceutics

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**Resource Person** Dr.M.N.Reddy (Retired Senior scientist & Associate Director LASTEC, DRDO)

On 3rd July 2025

Time: 3 P.M.

Venue: SNVPMV Auditorium

Presided by: Dr. B. Prabha Shankar Chairman, SNVPMV

Coordinated by : Dr.B.Chandrashekar Reddy

Co-Coordinators: Dr.Ch.Shanthi Priya, Dr.Ch.Bhargavi, Mrs. A.Jyothi

Dr. B. Haarika Vice Principal Principal

Director

Dr. T. Mamatha Dr. N. Srinivas Sri. B. Hanumanth Rao Hon.Secretary





College for Women Tarnaka, Secunderabad. (Sponsored by the Exhibition Society, Affiliated to Osmania University, Approved by PCI ISO : 9001:2015 Certified Institution NBA Accredited B.Pharmacy Course Date : 972025

Ref.: SNVPMV/

# CIRCULAR

Topic: "Applications of Radiation Technology in Biomedical sciences"

Organized By: Department of Pharmaceutics

Speaker: Dr. M. N. Reddy, Retired Senior Scientist & Associate Director LASTEC, DRDO.

Dear Staff & Students,

We are pleased to inform you that we are going to conduct a seminar on "Applications of Radiation Technology in Biomedical sciences" by **Dr. M. N. Reddy**, Retired Senior Scientist & Associate Director LASTEC, DRDO.

The lecture will be delivered by **Dr. M. N. Reddy**, Retired Senior Scientist & Associate Director LASTEC, DRDO in our college auditorium on 03.07.2025 at 3:00 P.M. All faculty members, M. Pharmacy students, B. Pharm III years, Pharm.D IV and V year students are cordially invited to attend the seminar. Let us make the most of this opportunity and contribute to its grand success through your active participation.

(Dr. T. Mamatha) Principal

H.No. 12-5-31 & 32, Vijayapuri Colony, Tarnaka, Secunderabad - 500 017. Telangana, INDIA. Phone : 040-27002221, Mobile : 92480 77972 e-mail : principal@snvpharmacycollege.com www.snvpharmacycollege.com





# "Report On Application of Radiation Technology in Biomedical sciences"

Date: 03.07.2025

**Organized by:** Department of Pharmaceutics, Sarojini Naidu Vanita Pharmacy Maha Vidyalaya (SNVPMV), Tarnaka, Secunderabad.

Time: 03:00 P.M.

Venue: Auditorium, SNVPMV.

Speaker: Dr. M. N. Reddy, Retired Senior Scientist & Associate Director LASTEC, DRDO.

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya (SNVPMV) hosted a guest lecture titled "Application of Radiation Technology in Biomedical sciences", designed to provide insights into personal happiness and well-being. The event was coordinated by Department of Pharmaceutics (Dr.B.Chandrashekar Reddy, Dr.Ch.Shanthi Priya, Mrs. CH. Bhargavi and Mrs. A. Jyothi) and anchored by Salma Sultana and Syeda sana ilsa, M.Pharm II Sem (Pharmaceutics) students. Dignitaries were welcomed to the dais with eco-friendly floral greetings, including: Dr. N. Srinivas Direcor, SNVPMV. Dr. B.Haarika, Vice- Principal, SNVPMV, Dr.R.Ashok Kumar R&D Advisor, SNVPMV, Dr.B.Chandrashekar Reddy, Professor & HOD, Dept. of Pharmaceutics, SNVPMV and Dr. M. N. Reddy, Retired Senior Scientist & Associate Director LASTEC, DRDO.

The program opened with a welcome address, introduced by Ms. Syeda sana ilsa, Dr. M. N. Reddy, Retired Senior Scientist & Associate Director LASTEC, DRDO, captivated attendees with an interactive and his talk began with applications of radiation and laser in pharmacy and biomedicine introduction.



# Introduction

Radiation and laser technologies have revolutionized various fields, including pharmacy and biomedicine, by offering innovative solutions for diagnosis, treatment, and research. These tools leverage the unique properties of electromagnetic waves and light energy to interact with biological tissues and pharmaceutical substances at both macro and molecular levels.

EM waves span a broad **spectrum**, categorized by wavelength and frequency, ranging from **radio waves** (long wavelength, low frequency) to **gamma rays** (short wavelength, high frequency). The major regions of the electromagnetic spectrum include: **Radio waves**, **Microwaves**, **Infrared radiation**, **Visible light**, **Ultraviolet** (**UV**) **radiation**, **X-rays**, **Gamma rays** 

# **Importance of Light for Life**

Light is a fundamental form of energy that sustains life on Earth. Without light, life as we know it would not exist. It is the primary source of energy for almost all ecosystems, and its role in biological processes, especially **photosynthesis**, is vital. He highlighted **"nothing is at rest, isolated, and absolute"** and said it means **"pure vibratory energy,"** 

# **Progress of the Nation**

The progress of any nation is fundamentally rooted in the development and empowerment of its citizens. The key indicators that define national progress include:

# Highly Educated, Skilled, and Empowered Citizens:

A knowledgeable and capable population is essential for innovation, governance, and economic development.

#### **Technologies, Products & Systems:**

Advancing in research and development leads to the creation of indigenous technologies and systems that support growth.

# Infrastructure, Services & Exports:

Robust infrastructure and efficient services enhance productivity and global trade competitiveness.

# Self-Reliance in Energy, Space & Defence Technologies:

Independence in critical sectors ensures security, sustainability, and global standing.

# **Quality of Life of the Citizens:**

The ultimate goal of national progress is to enhance the well-being, health, and happiness of its people.



# **Essence of Education**

Education is the foundation upon which the progress of individuals and the nation is built. The essence of education can be summarized as follows:

# Knowledge, Skills, Values, Character:

True education nurtures a well-rounded personality that integrates intellectual, practical, and ethical development.

# Learning by Thinking:

Encouraging inquiry and curiosity fosters a deeper understanding and lifelong learning.

# **Emotional Intelligence, Purpose of Living:**

Education should also address emotional maturity and guide individuals towards meaningful, purposeful lives.

# Attitude of Critical Thinking, Problem Solving & Success:

Cultivating an analytical mindset and the ability to tackle challenges creatively is essential for personal and professional growth.

# What is science

Science is not just a field of study but a **powerful tool** for understanding and shaping the world. It thrives on observation, experimentation, and logical thinking. Through science, humanity not only explores the universe but also develops the **technologies and solutions** that shape our future.

# Learning by Thinking – The Power of Curiosity

Learning is most effective when driven by **curiosity** and **critical thinking**. The slide titled *"Learning by Thinking"* highlights the crucial role of curiosity in discovery, innovation, and personal growth. It emphasizes that true learning comes not just from being taught, but from thinking and exploring independently.

# Albert Einstein:

"I have no special talent. I am only passionately curious."

Einstein attributes his success not to inherent genius, but to a strong sense of curiosity — reinforcing that **anyone can achieve greatness through deep interest and inquiry**.

# Science through Observation and Measurement



Observation and measurement are the foundation of scientific discovery. From the **microscopic world of molecules and cells** to the **vast structures of galaxies**, scientific tools help us explore, understand, and explain the universe. Among these tools, **optical imaging** and **spectroscopy** are some of the most powerful and timeless analytical methods.

# What is Laser?

A **laser** is one of the most powerful and precise tools developed in modern science and technology. The word **LASER** is an acronym for:

# Light Amplification by Stimulated Emission of Radiation

This principle allows the generation of highly focused and coherent light beams with exceptional precision.

# Key Characteristics of Laser Light:

**Coherent:** All light waves move in phase with each other.

Monochromatic: Consists of a single wavelength or color.

Highly Directional: The beam travels in a straight, narrow line with minimal spread.

**High Intensity:** Focused energy in a small area makes lasers powerful tools for cutting, targeting, and precision measurement.

# **Types of Lasers**

Lasers are categorized based on the **type of active medium** used and the **mode of operation**. Each type of laser exhibits unique characteristics and is suited for specific applications in medicine, industry, defense, communication, and research.

Solid-State Lasers, Gas Lasers, Ion Lasers, Excimer Lasers, Metal Vapour Lasers, Dye Lasers, Semiconductor Diode Lasers, Colour Centre Lasers, Fiber Lasers, Gas Dynamic Lasers, Chemical Lasers

# Conclusion

Radiation and laser technologies have become indispensable tools in modern science, particularly in the fields of pharmacy and biomedicine. Their ability to interact with matter at both microscopic and macroscopic levels has enabled groundbreaking advances in diagnosis, treatment, and research. The foundational understanding of electromagnetic waves and light energy not only enhances scientific exploration but also emphasizes the critical role of light in sustaining life.



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Moreover, the integration of scientific knowledge with national development—through education, innovation, infrastructure, and self-reliance—illustrates the broader impact of technology on society. Education plays a pivotal role in nurturing curiosity, critical thinking, and values that drive personal and societal progress. As Einstein rightly said, "I am only passionately curious," reminding us that curiosity is the spark behind all innovation and discovery.

Lasers, with their unique characteristics such as coherence, monochromaticity, and precision, stand as a testament to the power of applied science. The various types of lasers serve vital roles across disciplines, reflecting how deeply science is woven into the fabric of modern life.

In essence, the synergy of scientific understanding, technological application, and value-based education is the true driver of progress—for individuals, for science, and for the nation as a whole.





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1	Dr. N. Srinivas	Professor & Director	None
2	Dr. T. Mamatha	Professor & Principal	Ar
3	Dr. B. Haarika	Professor & Vice Principal	Ro
4	Dr. S. Hemalatha	Professor & HOD	the .
5	Dr. S. Anuradha Bai	Professor & HOD	H.
6	Dr. T. Venu	Professor & HOD	Amb.
7	Dr. P. Vivek Sagar	Professor & HOD	Piendy
8	Dr. B. Chandra Shekhar Reddy	Professor & HOD	RAT
9	Smt. R.V.S. Latha Sree	Associate Professor	Ø
10	Dr. K. Neelima	Associate Professor	
11	Dr. B. Siva Jyothi	Associate Professor	8
12	Dr. M. Swetha	Associate Professor&HOD	
13	Dr. S. Rohini Reddy	Associate Professor	But
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26	Ms. S. Divya	Assistant Professor	R
27	Dr. Akaram Sujala	Assistant Professor	(A)

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28	Smt. Azmeera Jyothi	Assistant Professor	RH
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35	Dr. Hadiya Iram	Assistant Professor	Hode
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37	Dr. M. Shiva Rama Krishna	Assistant Professor	N.
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#### ATTENDANCE SHEET

Event: "Application of Radiation Technology in Biomedical sciences"

Organized by

Department of Pharmaceutics

Speaker: Dr.M.N.Reddy, Rtd. Senior Scientist & Associate Director, LASTEC, DRDO

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