



**A FIVE DAY FACULTY DEVELOPMENT PROGRAMME ON  
“RECENT ADVANCES, TRENDS AND CHALLENGES IN  
PHARMACEUTICAL NANOTECHNOLOGY – RESEARCH TO REVENUE”**

**20<sup>th</sup>-24<sup>th</sup> September 2023**



**Jointly Organized By**

**SEVEN HILLS COLLEGE OF PHARMACY  
(AUTONOMOUS)  
Venkatramapuram, Tirupati, A.P.**

**Faculty Development Cell  
JNT UNIVERSITY ANANTHAPUR,  
Ananthapuramu.  
In Association with ISTE, AP Section**



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## ABOUT JNTUA

The College of Engineering, Anantapur was started at Guindy, Madras in 1946 and shifted to Anantapur in 1948. The college was initially affiliated to Madras University during 1946-1955 and to Sri Venkateswara University, Tirupathi during 1955-1972. In 1972, by an Act of State Legislature, JNT University was established at Hyderabad and the College of Engineering, Anantapur went into the fold of JNTU. Later in the year 2008, by an Act of AP State Legislature, JNTU was trifurcated into three independent universities viz., JNTU, Hyderabad, JNTU, Kakinada and JNTU Anantapur. JNTU College of Engineering, Anantapur became a constituent college of JNTUA and was renamed as JNTUA College of Engineering, Anantapur. The JNTUA College of Engineering, Pulivendula, established in the year 2006 and Oil Technology Research Institute (OTRI), Anantapur, established in the year 1948 also became constituent units of JNTUA. A new constituent college - JNTUA College of Engineering, Kalikiri established in 2013 also came under the fold of JNTUA. The OTRI was later renamed as Oil Technology and Pharmaceutical Research Institute (OTPRI), in 2016. In addition to the above four constituent colleges, the JNTUA has 98 Engineering Colleges, 33 Pharmacy Colleges and 29 stand-alone MBA/MCA colleges affiliated to it. Since its inception, JNTUA is committed to develop and nurture technological education and intends to produce technical manpower of high quality, comparable to the best in the world.

## ABOUT COLLEGE

Seven Hills College of Pharmacy (Autonomous) was started in 2007 as an institution exclusively specialized in Pharmacy Education by Global Vision Educational & Welfare Society (Regd. No.:296/2005), a non-profit organization registered under the Registration of Societies Act with the Registrar of Societies, Balaji's Registration District. The College has been carefully launched & nurtured by its founders & visionaries Shri M. Venkatrama Raju & Dr. M. Niranjana Babu, who have been learned educationists themselves. Presently the College is offering B.Pharmacy & M.Pharmacy (Pharmaceutics, Pharmaceutical Analysis & Pharmacology), Pharma D & Ph.D in Pharmaceutical Sciences. SHCP is a one-step solution for all the higher education & research requirements of Pharmacy students.

## ABOUT FACULTY DEVELOPMENT PROGRAM

This FDP is designed to be a very interactive experience. The sessions will be handled by eminent academicians and researchers who have excellent research backgrounds. The program will equip the participants to understand the different phases of research and to come with better research outcomes towards nano-based product development.

Application of biopharmaceutical concepts to formulation development has revolutionized strategy for dosage form design. Nanotechnology has become an essential element of Pharmaceutical Sciences and finds multiple applications in drug delivery systems in enhancing therapeutic performance of drugs. The conventional forms suffered with drawbacks like low bioavailability, poor patient compliance and damage to healthy cells etc. which were rectified using pharmaceutical nanotechnology. This will be useful for the researchers interested in diversifying area and also for strengthening their work with new applications. Nanotechnology applies the methods and principles of Nano science and nano medicine to various field to develop new drug delivery systems which can overcome the drawbacks of conventional drug delivery systems.

## OBJECTIVES OF THE FDP

- To impart necessary knowledge and skills to undertake research work in any area of interest.
- To disseminate of the modern knowledge of Pharmaceutical nanotechnological research to researchers, and academicians.
- To provide conceptual understanding of how Nanotechnology can be used in Pharmaceutical research and various fields.
- To discuss the status of the Pharmaceutical Nanotechnology and biomedical research work in India and across the world.

## TOPICS TO BE COVERED

- Nanobased drug delivery tools
- Molecular Diagnostics
- Biosensor and Biolabels
- Drug discovery

## EXPECTED OUTCOME

- Participants will be equipped with the knowledge and insights necessary to make informed decisions regarding the Pharmaceutical Nanotechnology advancements in their pharmaceutical product developments.
- Better understanding on how to design a valid nano based research project to answer specific research questions.

## FUTURE TRENDS

- Furthermore, nanotechnology facilitates improvements in technologies such as additive manufacturing, quantum computing, and precision biotechnology. The top nanotechnology trends range from advanced carbon and composite-based nanomaterials to nanoencapsulation.
- The more futuristic visions of nanotechnology include on one hand the envisioned use of nanoparticles inside the body and the blood stream (for diagnostic and therapeutic purposes), and on the other hand - potential development of new weapons of mass destruction enabled by nanotechnology.

## REGISTRATION DETAILS

- Registration Link
- No Registration Fee
- No. of Registrations are limited to 30
- The participants shall not exceed 3 participants from College/Universities.
- Selection is based on first come first serve basis only
- Accommodation will be provided for external participants only
- Registration last date 14-09-2023

## VENUE

Seven Hills College of Pharmacy (Autonomous), Tirupati.



### Registration Link

<https://surveyheart.com/form/64db75072cbd627e586e018d>

## EMINENT SPEAKERS

### **Dr. Beeraiah Baire**

Dept. of Chemistry, IIT-Chennai-600036.

### **Dr. N. Shankaraiah**

NIPER Hyderabad, Telangana, 500 037.

### **Prof. R. Nagaraju**

Institute of Pharmaceutical Technology,  
SPMVV, Tirupati-517502, A.P.

### **Dr. S. Mohanalakshmi**, Director

Amity Institute of Pharmacy, Amity University-Gwalior, MP-474020, India.

### **Dr. Srikanth Ala**

National Ayurveda Research Institute for Panchakarma,  
Ministry of AYUSH, Kerala-679531.

### **Prof. M. Vidyavathi**

Institute of Pharmaceutical Technology,  
SPMVV, Tirupati-517502, A.P.

### **Dr. Narasimha Golla**

Department of Virology, S.V. University,  
Tirupati 517102, A.P. India.

### **Dr. T. Pavan Kumar**

Senior Scientist,  
CSIR – IMMT, Odisha, India.

**Prof. V. Gopal**, Registrar-Academics,  
Mother Thereasa Institute of Health Sciences,  
A Govt. of Puducherry Institution, 605006.

### **Prof. Vijayamohanan Pillai**

Professor & Former Director CSIR,  
IISER Tirupati-517507, A.P., India.