

---

### Guest Lecture Report

**Title:** Recent Advances in Drug Delivery Systems

**Date and time:** 16<sup>th</sup> November 2024, 11.30 AM

**Resource person:** **Dr. T. Geetha, Ph. D**, CEO & Director in Diponed Research International Pvt.Ltd. Bengaluru, Karnataka 560099

On November 16, 2024, the Department of Pharmaceutics organized an engaging guest lecture on “*Recent Advances in Drug Delivery Systems*” at 11:30 AM. The session featured Dr. Geetha's as the esteemed speaker, who delivered an insightful presentation exploring the developments in drug delivery technologies and provided a comprehensive overview of Conventional DDS, Controlled DDS, and Novel DDS. The recent advancements in release systems such as Diffucaps (once-daily dosage forms), Liquitime, oral thin films, Sloumer, Duo Caps, and gluing pills. Her presentation also highlighted a nano-delivery systems, including liposomes, dendrimers, micellar nanoparticles, polymeric nanoparticles, nanocapsules, nanospheres, nanoshells, solid lipid nanoparticles, carbon nanotubes, nanosuspensions, and microemulsions. She discussed their evolving role in enhancing drug solubility, targeted delivery, and therapeutic efficacy.

Dr. Geetha emphasized the integration of advanced technologies such as magnetic and electronic device-enabled drug delivery systems and thermoresponsive mechanisms, offering practical solutions to pharmaceutical industry challenges. The optimal dosing at the right time and location, improving therapy outcomes, patient comfort, and overall quality of life while potentially reducing side effects.

In her conclusion, Dr. Geetha highlighted that advanced drug delivery systems will improve therapeutic efficiency but also extend product life cycles and patent durations, adding significant value to pharmaceutical innovations. The lecture was well-received, fostering an interactive environment where participants actively engaged in discussions and posed insightful questions.

The Department of Pharmaceutics extends its heartfelt gratitude to Dr. T. Geetha for her invaluable contribution and to all participants for their enthusiastic involvement, making the event a resounding success

---

**JSS COLLEGE OF PHARMACY**  
(Constituent College)  
**JSS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
**MYSURU**  
(Deemed to be University)  
Accredited 'A++' Grade by NAAC



---

**Guest Lecture Report**

