



A VALUE-ADDED COURSE ON

“ADVANCES IN DRUG DELIVERY SYSTEM”



Eligibility: III & IV Pharm D

Students who are interested to join the value-added course should contact the respective coordinator

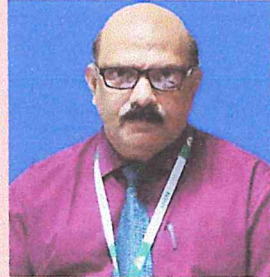
Timings:
6th Feb 2021
to
6th Mar 2021
(Every Saturday)



Coordinator: T. Prasanthi
Asst. Professor,
Aditya College of Pharmacy



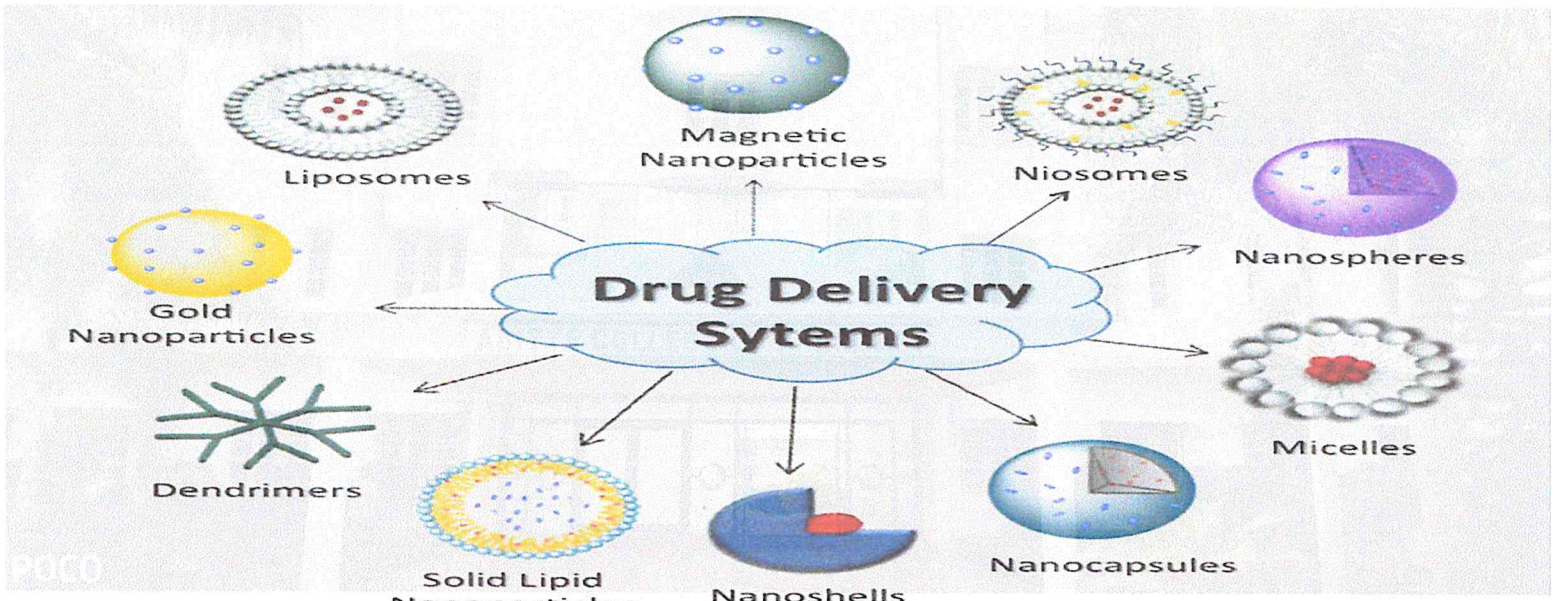
Resource Person: K. Venkatesarulu
Asst. Professor,
Aditya College of Pharmacy



Convener: Dr. K. Ravishankar
Principal,
Aditya College of Pharmacy



Patron: Dr. N. Satish Reddy
Vice-Chairman,
Aditya Educational Institutions



All the students enrolled in this course will be provided with a certificate



Dr. N. Satish Reddy
PRINCIPAL
Aditya College of Pharmacy
SURAMPALM-533437



ADITYA COLLEGE OF PHARMACY

(Affiliated to JNTUK, Approved by AICTE)



(ADITYA NAGAR, ADB ROAD, SURAMPALEM 533 437, E.G.Dt, Ph.9949876664, 08852-200005)

Website: www.acop.edu.in, Email: office@acop.edu.in

COURSE SYLLABUS

DURATION: 30Hrs

COURSE NAME: Advances in drug delivery system

Course objective:

- To know what are advanced drug delivery systems
- To be familiar with various routes of drug delivery system
- To know different mechanisms of advanced drug delivery systems

Course outcomes:

- To compare between conventional and controlled delivery
- To assess the pros and cons of drug delivery systems
- To design advanced delivery systems for controlled drug delivery

DAY 1: 06-02-2021 (6Hrs)

MODULE I:

Controlled drug delivery systems:

Introduction, terminology, advantages, disadvantages, rationale, Approaches to design controlled release formulations based on diffusion, dissolution, ion exchange and osmosis.


DAY 2: 13-02-2021 (6Hrs)

MODULE II:

Micro encapsulation:

Definition, advantages, disadvantages, microspheres, micro capsules, micro particles, methods of micro encapsulation and applications.




PRINCIPAL
Aditya College of Pharmacy
SURAMPALEM-533 437



ADITYA COLLEGE OF PHARMACY

(Affiliated to JNTUK, Approved by AICTE)



(ADITYA NAGAR, ADB ROAD, SURAMPALEM 533 437, E.G.Dt, Ph.9949876664, 08852-200005)

Website: www.acop.edu.in, Email: office@acop.edu.in

DAY 3: 20-02-2021 (6Hrs)

MODULE III:

Mucosal drug delivery system: Principles of bioadhesion, concept, formulation considerations, advantages and disadvantages

Transdermal drug delivery system: concept, components, formulation approaches, advantages and disadvantages

DAY 4: 27-02-2021 (6Hrs)

MODULE IV:

Gastroretentive drug delivery system: Introduction, approaches, advantages and disadvantages

Nasopulmonary drug delivery system: Introduction, Formulation of inhalers, MDI and dry powder inhalers.

DAY 5: 06-03-2021 (6Hrs)


MODULE V:

Nanotechnology: Introduction to liposomes, niosomes, nanoparticles and monoclonal antibodies.

References:

1. Y.W. Chien, Novel drug delivery systems, 2nd edition, Marcel Dekker Inc, New York, 1992.
2. S.P. Vyas and Khar, controlled drug delivery-concepts and advances, Vallabh prakashan, New Delhi, 1st edition.
3. Encyclopedia of controlled delivery.




PRINCIPAL
PRINCIPAL
Aditya College of Pharmacy
SURAMPALEM

ADITYA

COLLEGE OF PHARMACY

Approved by AICTE & PCI - NEW DELHI, Affiliated to JNTUK KAKINADA
(Formerly known as Sri Sai Aditya Institute of Pharmaceutical Sciences & Research)

Ph: 99498 76664

Email: office@acop.edu.in

Website: www.acop.edu.in

CERTIFICATE COURSE SUMMARY 2020-21

COURSE CODE AND NAME : VADD and Advances in Drug delivery system

COURSE DURATION : 30Hrs

BRANCH AND YEAR OFFERED: III & IV Pharm D

COURSE INSTRUCTORS : K.Venkatesarulu, Ass.Profesor

COURSE OUTCOME

The student would be able To compare between conventional and controlled delivery, assess the pros and cons of drug delivery systems and design advanced delivery systems for controlled drug delivery

COURSE TYPE : Self framed course

ASSESSMENT MODE

ATTENDANCE : 30 Hours

NO.OF PARTICIPANTS : 41

SCHEME OF EXAM : MCQ Offline

DATE OF EXAM : 08-03-2021

T. Prasanna
Course coordinator



Devi Chandra
Principal
PRINCIPAL
Aditya College of Pharmacy
SURAMPALEM-533 437



Sample



CERTIFICATE OF COMPLETION

This is to certify that

Mr./Ms.

bearing roll no.

value added course, entitled

has completed the

"Advances In Drug Delivery System" conducted from 06th
February to 06th March, 2021 at Aditya College of Pharmacy,
Surampalem.

CHAIRMAN

M. Ganga Reddy

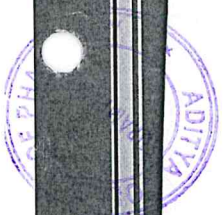
VICE-CHAIRMAN

M. S. S. Reddy

PRINCIPAL

K. Srinivas

PRINCIPAL
College of Pharmacy
Surampalem



ADITYA
SURAMPALAM