

PRODUCT DEVELOPMENT TECHNOLOGY

-GROUP 1



M.K.Thinakar Krishna
-Fourrts

THE IDMA TEAM PRODUCT DEVELOPMENT TECHNOLOGY-2019



Topics to be covered

Liposomes(Nanosystems)

Types of technologies

Inclusion Molecular systems

3-D Printing

Lyophilization

Medical Devices(Bio-sensors)

Analytical Method development

INCLUSION MOLECULAR SYSTEM

PVP

Cyclodextrins

Solubility enhancements

Tastemasking

Bio availability

Increased stability

ANALYTICAL TECHNIQUES

Use of Bio sensors

Hot stage microscopy

XRD

DSC

MS

UPLC

Particle size analysis(Lazer)

In-Process checks for 'continuous manufacturing'

- Non-destructive(LOD,content,NIR)

- Destructive

3-D PRINTING IN PHARMA

Customized Dosage

Change in size

Organs

Devices

Patient convenience/compliance

Reduced toxicity

THANK YOU!