



# ADITYA COLLEGE OF PHARMACY

Aditya nagar, Surampalem,  
Andhra Pradesh 533437

*A-VALUE ADDED course on*



## “MANUFACTURING AND EVALUATION OF TABLETS”

*Eligibility:* II, III & IV Pharm D

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



**Coordinator: CH. Siva Ramesh**  
Asst. Professor,  
Aditya College of Pharmacy



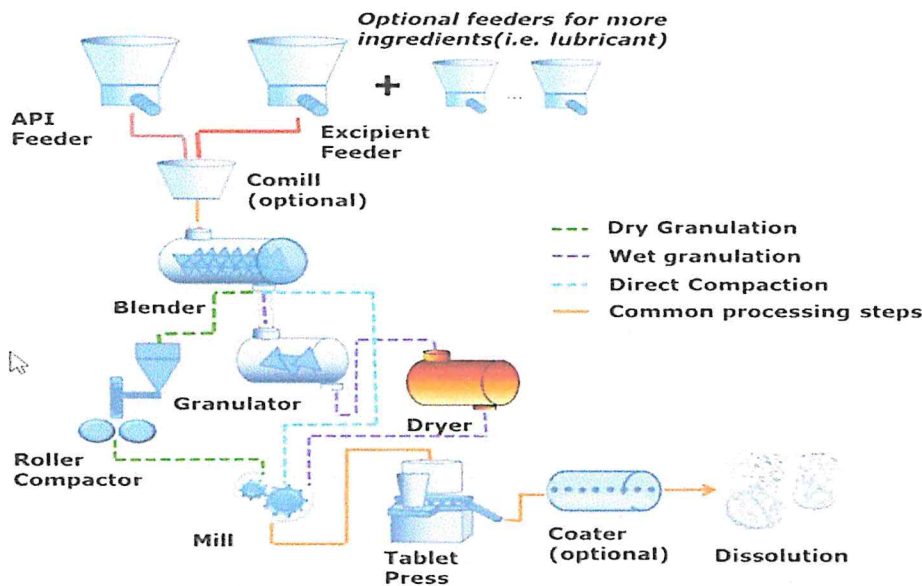
**Resource Person: T. Uday Kumar**  
Asst. Professor,  
Aditya College of Pharmacy



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



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



**Timings:**  
2nd Feb 2019 to  
6th April 2019  
(Every Saturday)

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



*Srin Chalcan*  
PRINCIPAL  
Aditya College of Pharmacy  
SURAMPALAM-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](http://www.acop.edu.in), Email: [office@acop.edu.in](mailto:office@acop.edu.in)

## COURSE SYLLABUS

**DURATION: 60Hrs**

**COURSE NAME:** Manufacturing and evaluation of tablets

### Course objective:

- To know the various types of tablets available.
- To know the formulation of tablets (common ingredients used in preparation of tablets )
- To know the methods of preparation of tablets
- Study of the tablet punching equipment
- To know the processing defects of tablets
- To know the various evaluation tests for tablets.

### Course outcome:

- To understand the formulation and evaluation of tablets and also learn about the operating of tablet punching equipment.

**DAY 1: 02-02-2019 (6Hrs)**

**DAY 2: 09-02-2019 (6Hrs)**

### Module -1

Classification of tablets – compressed tablets , chewable tablets , sugar coated tablets, film coated tablets ,controlled release tablets , delayed release tablets ( enteric coated ), buccal and sublingual tablets ,dental cones ,effervescent tablets ,vaginal tablets

**DAY 3: 16-02-2019 (6Hrs)**

**DAY 4: 23-02-2019 (6Hrs)**

### Module 2

Tablet design and formulation components (diluent, binder, disintegrant, glidants, lubricants )

**DAY 5: 02-03-2019 (6Hrs)**



*Seeni Chalkar*  
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**DAY 6: 09-03-2019 (6Hrs)**

## Module 3

Preparation of tablets – wet granulation method, dry granulation method, direct compression.

**DAY 7: 16-03-2019 (6Hrs)**

**DAY 8: 23-03-2019 (6Hrs)**

## Module 4

Tablet compression machine, compression machine tooling description of equipment. Defects of tablets during processing – capping and lamination, picking and sticking, mottling, weight variation, hardness variation, double impression.

**DAY 9: 30-03-2019 (6Hrs)**

**DAY 10: 06-04-2019(6Hrs)**

## Module 5

Evaluation study of tablets– hardness test, weight variation test, friability test, disintegration test, content uniformity test, dissolution test and equipment used for evaluation of tablets.

## REFERENCE:

1. Rostagno, M. A., & Prado, J. M. (Eds.). (2013). *Natural product extraction: principles and applications* (No. 21). Royal Society of Chemistry.
2. Eyjolfsson, R. (2014). *Design and manufacture of pharmaceutical tablets*. Academic Press.
3. Sunil, J. (1990). *Pharmaceutical Dosage Forms: Tablets*. Vol. 1.
4. Niazi, S. K., & Niazi, S. K. (2009). *Pharmaceutical Manufacturing Formulations*. Informa Healthcare [Imprint].



*Scanni Chellan*  
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Aditya College of Pharmacy  
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# 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 2018-19

**COURSE CODE AND NAME** : VMET and manufacturing and evaluation of tablets  
**COURSE DURATION** : 60Hrs  
**BRANCH AND YEAR OFFERED:** II, III & IV Pharm D  
**COURSE INSTRUCTORS** : T.Uday kumar, Asst Professor

#### COURSE OUTCOME

Students would be able to understand the formulation and evaluation of tablets and also learn about the operating of tablet punching equipment.

**COURSE TYPE** : Self framed course

#### ASSESSMENT MODE

**ATTENDANCE** : 60 Hours  
**NO.OF PARTICIPANTS** : 73  
**SCHEME OF EXAM** : MCQ Offline  
**DATE OF EXAM** : 29-04-2019

  
Course coordinator



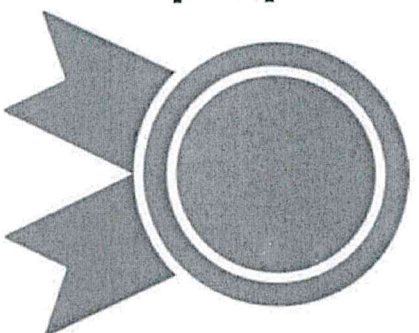
  
Principal

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# CERTIFICATE OF COMPLETION



Sample

This is to Certify that Mr./Ms

bearing roll number \_\_\_\_\_ has successfully  
completed the Value-added course entitled  
“Manufacturing and Evaluation of Tablets”  
held in Aditya College of Pharmacy, Surampalem  
from 02nd February to 06th April, 2019 .

*Handwritten signature in green ink.*

*N. Gokul Reddy*

Chairman

*N. Srinivas Kumar*

Vice Chairman

*Handwritten signature in purple ink.*

ADITYA COLLEGE OF PHARMACY  
SURAMPALEM-533 451  
Director & Principal