

# ADITYA COLLEGE OF PHARMACY

Aditya nagar, Surampalem, Andhra Pradesh 533437

# A CERTIFICATE course on



# "HANDS ON TRAINING PROGRAMME IN EXTRACTION TECHNIQUES"

# Eligibility: II B.Pharm

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



Coordinator: Md.Bhakatwar Asst. Professor, **Aditya College of Pharmacy** 



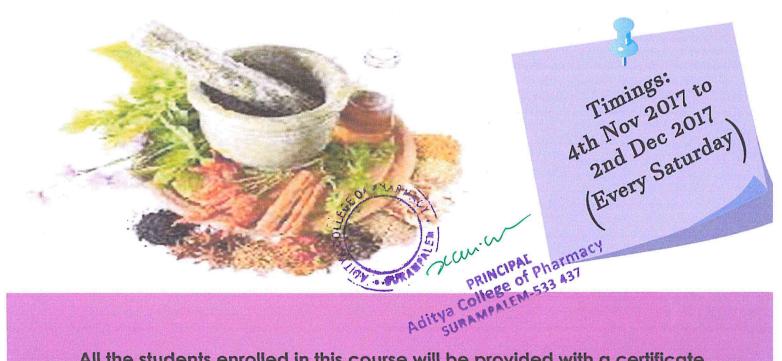
Resource Person: O.Satya Asst. Professor, **Aditya College of Pharmacy** 



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



# 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**

**DUARATION: 30Hrs** 

**COURSE NAME:** Hands on Training on Extraction Techniques

### **COURSE OBJECTIVES:**

The course objective is to provide both theoretical and hands on training on the techniques and development of standardized herbal extract. At the end of the course trainee will be exposed to

- (i) Techniques applied to determining herbal extraction methods to develop a standardized herbal extract from lab to industrial scale.
- (ii) Techniques in standardized lab scale method in developing standardized herbal extracts to industrial scale.
- (iii) Understanding quality measures (QC) involved in herbal extraction and developing standardized herbal extract with case studies focusing on Indian indigenous herbs lists in monograph of herbs in India.

DAY 1: 04-11-2017, 6Hrs

**MODULE-I** 

Raw material Preparation: collection of Indian herbs, solvent collection and purification

DAY 2: 11-11-2017, 6Hrs

MODULE-II

Extraction Process: Maceration, soxhlet extraction, successive solvent extraction

DAY 3: 18-11-2017, 6Hrs

**MODULE-III** 

Downstream processing: explaining the process of extraction and bulk extraction preparation

DAY 4: 25-11-2017, 6Hrs

**MODULE-IV** 

Product formulations (Cosmetics, Flavorings agents, Herbal Products)

PRINCIPAL
Aditya College of Pharmary
SURAMPALEM-533 APT



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DAY 5: 02-12-2017, 6Hrs

**MODULE-V** 

Product Quality Management and registration by using analytical methods

### REFERENCE:

- 1. Chemat, F., & Strube, J. (Eds.). (2015). *Green extraction of natural products: theory and practice*. John Wiley & Sons.
- 2. Sarker, S. D., Latif, Z., & Gray, A. I. (2006). Natural product isolation. In *Natural products isolation* (pp. 1-25). Humana press.
- 3. Rostagno, M. A., & Prado, J. M. (Eds.). (2013). *Natural product extraction: principles and applications* (No. 21). Royal Society of Chemistry.



PRINCIPAL PRINCIPAL

Aditya College of Pharm SURAMPALEM-533 437

# AD TYA 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 2017-18**

COURSE CODE AND NAME

CTET and Hands on training programme in

extraction techniques

**COURSE DURATION** 

30Hrs

BRANCH AND YEAR OFFERED:

II B.Pharmacy

COURSE INSTRUCTORS

O.Satya, Assistant Professor

### **COURSE OUTCOME**

Student would be able to learn the both theoretical and hands on training on the techniques and Understanding quality measures (QC) involved in herbal extraction and developing standardized herbal extract.

COURSE TYPE

Self framed course

### ASSESSMENT MODE

**ATTENDANCE** 

30 Hours

NO.OF PARTICIPANTS

100

SCHEME OF EXAM

MCQ Offline

DATE OF EXAM

04-12-2017

Course coordinator



Principal
PRINCIPAL
Aditya College of Pharmacy
SURAMPALEM-533 437





# COMPLETION OF

This is to certify that

Vr./Ws.

Surampalem from 04th November to course entitled "Hands on training program bearing roll number Aditya College of Pharmacy, in extraction techniques" held in has successfully completed the Certificate

This activity was awarded by:

N. Sale Jashy

Chairman

Vice-Chairman

Xulani Chawar

Trincipal &

Director

SURAMPALEM-538 437

2nd December, 2017