

#### Rajarshi Shahu College of Pharmacy, Buldana

(Approved by AICTE, PCI, New Delhi and affiliated to Sant Gadge Baba Amravati University, Amravati)

#### Certificate course on

# "VARIUOS EXTRATION METHODS & TECHNIQUES"

Department – Pharmacognosy (2017-18)

Duration: 30 hrs

**Scope:** To make students aware about various extraction methods & techniques used for the extraction of medicinal plants.

#### **Objective:**

Upon completion of the certificate course students shall be able to deal with

- ✓ Students will come to know no. various extraction methods.
- ✓ Students will understand about how to use various techniques.
- ✓ Students will be able to know the traditional as well as modern methods of extraction and their application.

Rajarshi Shahu College of Pharmacy

Journey Towards Academic Excellence



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Department – Pharmacognosy (2017-18) Duration: 30 hrs

#### **COARSE OBJECTIVES**

### After completion of this certificate course my students should be able to

Co's	Description/Statement				
CO1	My students will able to understand the various extraction methods.				
CO2	My students will able to write the traditional as well as modern methods of extraction their application.				
CO3	Able to know the extraction process.				
CO4	How to approach of the use of various techniques of extraction fro particular crude drug extraction.				



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### **Course content**

Syllabus of the certificate course on							
"VARIUOS EXTRATION METHODS &							
TECHNIQUES"							
Sr. no.	Topics						
1	Concept of Extraction						
2	Methods of extraction of extraction						
3	Difference between traditional methods &						
3	modern methods of extraction						
4	Traditional methods of extraction						
5	Maceration						
6	Decoction						
7	Infusion						
8	Soxhlet extraction						
9	Percolation						
10	Supercritical fluid extraction (SFE)						
11	Ultrasound assisted extraction (UAE)						
12	Microwave assisted extraction (MAE)						
13	Reflux extraction.						
14	Accelerated-solvent extraction (ASE)						
15	Various Techniques for extraction and their						
13	application.						



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### Certificate course on "VARIUOS EXTRATION METHODS & TECHNIQUES"

Department – Pharmacognosy (2017-18)

(01/02/18 to 24/02/2018)

	Syllabus of the certificate course on						
"VARIUOS EXTRATION METHODS & TECHNIQUES"							
Sr.	Sr. Topics	Date	Time	Conducted			
no.				by			
		01/02/2018	9:30 am to	Dr. S. M.			
1	Concept of Extraction		10:30am	Kewatkar			
2	Methods of extraction of	02/02/2018	9:30 am	Dr. S. M.			
	extraction		to10:30am	Kewatkar			
		03/02/2018	9:30am to	Dr. S. M.			
3	Difference between traditional	to	11:30am	Kewatkar			
	methods & modern methods of extraction	04/02/2018					
		05/02/2018	9:30 am	Dr. S. M.			
4	Traditional methods of extraction	06/02/2018	to10:30am	Kewatkar			
		07/02/2018	9:30 am to	Dr. S. M.			
5	Maceration		10:30am	Kewatkar			
6		08/02/2018	9:30 am	Dr. S. M.			
U	Decoction		to10:30am	Kewatkar			
		09/02/2018	9:30 am to	Dr. S. M.			
7	Infusion		10:30am	Kewatkar			
		10/02/2018	9:30 am	Dr. S. M.			
8		11/02/2018	to10:30am and	Kewatkar			
	Soxhlet extraction		9:30am to				



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			11:30am	
9		12/02/2018	9:30 am to	Dr. S. M.
	Percolation	13/02/2018	10:30am	Kewatkar
	Supercritical fluid extraction (SFE)	12/02/2018	9:30 am	Mr. M. D.
10		13/02/2018	to10:30am	Chakolkar
	Ultrasound assisted extraction	14/02/2018	9:30 am to	Mr. M. D.
11	(UAE)	15/02/2018	10:30am	Chakolkar
12	Microwave assisted extraction	16/02/2018	9:30 am	Mr. M. D.
	(MAE)	17/02/2018	to10:30am	Chakolkar
		17/02/2016	and	
			9:30am to	
			11:30am	
		18/02/2018	9:30am to	Mr. M. D.
13		19/02/2018	11:30am and	Chakolkar
			9:30 am to	
	Reflux extraction.		10:30am	
14		20/02/2018	9:30 am	Mr. M. D.
	Accelerated-solvent extraction (ASE)	21/02/2018	to10:30am	Chakolkar
15		22/02/2018	9:30 am to	Mr. M. D.
		23/02/2018	10:30am	Chakolkar
	Various Techniques for extraction and their application.	24/02/2018		



