



PRAKASH SHIKSHAN MANDAL'S

**LOKNETE RAJARAMBAPU PATIL AYURVEDIC MEDICAL  
COLLEGE, HOSPITAL, POST GRADUATE INSTITUTE AND  
RESEARCH CENTER, ISLAMPUR**

**VALUE ADDED**

**COURSE**

**IN**

**BASIC**

**PHARMACEUTICS**

**(DESIGNED BY DEPT. OF RASASHASTRA &  
BHAISHAJYA KALPANA)**

## **Course Objectives:**

- 1 The profession & practice of Ayurvedic pharmacy has been growing in this country at an enormous rate & keeping in view the vast potential available for this noble profession, there exist need for concise and systematic approach to the subject pharmaceuticals.
- 2 In II BAMS profession the classical Ayurvedic Pharmaceutics Is given but keeping in mind globalization & increased standards, demands there is necessary to introduce them to Basic Pharmaceutics of modern science.
- 3 This syllabus has been specifically written to meet the needs of the students of II BAMS Professionals. This syllabus gives point wise explanation regarding different topics in pharmaceuticals which are very useful to prepare Ayurvedic medicines. This is our sincere attempt to present modern concept in Ayurvedic Pharmaceutics in simple and lucid language.

**Eligibility Criteria :**II BAMS Students .

## **Course Design:**

Name of the Course	Value Added Course in Basic Pharmaceutics
College Code	122113
Course Code	VACRSBK
Duration	6 Months
Teaching Scheme: Lecture/ practical	20 hrs
Evaluation Scheme	Method of Examination: Multiple choice examination : 50 marks Passing Criteria : Minimum 50% Marks
Course Language	English& Marathi
Intake Capacity	30

**Course Content:**

<b>Sr. No.</b>	<b>Syllabus Content</b>	<b>Teaching Hours</b>	<b>Weightage / Marks</b>
1.	Introduction to Dosage forms ,Pharmacopeia & Metrology: Introduction to different dosage forms, classification & relative application. Definition, British pharmacopeia, API, AFI, System of weights & measures	1 Hr	05
2.	Size Reduction & Size separation Methods of size reduction, study of Hammer mill, Ball mill, and disintegrator. Size separation by Shifting, official standards for powders.	4 Hrs	10
3.	Mixing & Homogenization: Powder mixing, liquid mixing, mixing of semisolids. Paddle mixer.	2.5 Hr	05
4.	Extraction Process: Study of Percolation, Maceration, soxhlets Extraction	4 Hr	03
5.	Heating Process: Introduction to evaporation pan, Hot Air Oven, Muffle furnace, Study of Dryers.	2 Hr	05
6.	Processing of Tablet & Capsules Definition, types of compressed tablets, steps involved in production of Tablets, excipients, coating of tablet, Granulator, Tableting machine, Tablet coating Pan, Hard & soft gelatin capsule, cap. Filling, handling & storage	4 Hrs	15
7.	Packaging: Different packaging units & their standards, foil sealing machine, Bottle filling machine, Labelling	2.5 Hrs	07

## **Reference Books:**

- Pharmaceutics I, Dr. P. V. Kasture, Dr. S. R. Parakh, Dr. S. A. Hasan, Dr. S. B. Gokhale, NiraliPrakashan, 18<sup>th</sup> edition 1993.
- BhaishajyaKalpanaVigyanam, Dr. K. Rama-Chandra Reddy, Choukhamba Sanskrit Bhavan, 2<sup>nd</sup> edition 2001.
- Ayurvedic pharmacopeia of India.
- Ayurvedic Formulary of India.