

**K. J. SOMAIYA COLLEGE OF SCIENCE AND COMMERCE , AUTONOMOUS**

**CERTIFICATE COURSE IN “HERBAL COSMETICS”**

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## **Course Details**

**Department of Botany  
2019-2020**

This document contains the structure of course, details of syllabus and evaluation pattern.

## Course Details

- ❖ **Course type** : Certificate
- ❖ **Course Title** : HERBAL COSMETICS
- ❖ **Preamble** : Herbal cosmetics are the products of the cosmetic chemistry, a science that combines the skills of experts from Biology and chemistry. The consumers of these preparations most of whom are girls and women are more concerned with the texture, consistency, colour and odour, packaging and general appearance of the cosmetic product. They are definitely impressed by its efficacy and safety. It is therefore necessary to have an understanding about the raw materials, herbals and chemicals that go into a herbal cosmetic formulation. Certificate course in Herbal cosmetics was designed keeping in mind, the basic requirements of the cosmetic industry. It is a short term credit transfer, inter disciplinary course which has been started from the last academic year, for the under graduate science students.

### ❖ **Objectives of course :**

1. Understanding and recognition of various raw materials and their properties.
2. To formulate herbal cosmetics.
3. Analysis and testing methods in cosmetics.
4. Motivate students to take up cosmetics as a field of research for further education.

### ❖ **Learning Outcomes :**

1. Job opportunities in cosmetic industry
2. Entrepreneurship in cosmetic fields

- ❖ **Prerequisites / Eligibility Criteria** : Undergraduate science students.

- ❖ **Intake Capacity** : 30 students per batch

- ❖ **Duration** : 03 months

- ❖ **Course Coordinator** : Dr. Jayesh S. Anerao

❖ Syllabus :

Paper /Module I:( chemistry in cosmetics )			
	Content	No of Lectures	Credits
	<p>1. Chemistry of oils and Fats.</p> <ul style="list-style-type: none"> <li>● Fatty acids.</li> <li>● Different types of oils.</li> <li>● Saturation and Unsaturation.</li> </ul> <p>2. Water.</p> <ul style="list-style-type: none"> <li>● Structure of water.</li> <li>● Purification of water –primary technique.</li> <li>● Water standards.</li> </ul> <p>3. Analytical chemistry used in cosmetics.</p> <ul style="list-style-type: none"> <li>● Instrumental analysis using pH meter ,colorimeter, viscometer and TLC</li> </ul> <p>Principle and Evaluation.</p> <ul style="list-style-type: none"> <li>● Method and principle for determination of heavy metals, chlorides and sulphates.</li> </ul>	15	01
Paper/Module II: ( herbs used in cosmetics )			
	Content	No of Lectures	Credits
	<ul style="list-style-type: none"> <li>● Oils and Fats used in cosmetics –Botanical source, chemical constituents, Physical parameters and morphological aspects of fixed oils –Sesame ,Groundnut ,Mustard ,Castor , Coconut and Sunflower.</li> <li>● Botanical source ,Morphological and</li> </ul>		01

	<p>physiological aspects of commonly used herbs -Brahmi , Neem ,<i>Aloe vera</i> , Liquorice ,Heena, cucumber ,Tulsi , Ritha , Amla ,Turmeric.</p> <ul style="list-style-type: none"> <li>● Extraction of herbs – Different methods of extraction.</li> </ul>	15	
Paper /Module III:( formulation of cosmetics )			
	Content	No of Lectures	Credits
	<p>1. Process for development of cosmetics.</p> <p>2. Different bases used in cosmetics.</p> <ul style="list-style-type: none"> <li>● Basic theory of cream, oils and Gels.</li> <li>● Raw materials used in cosmetics.</li> </ul> <p>3. Formulation of cosmetic products using herbs.</p> <ul style="list-style-type: none"> <li>● Amla hair oil / Heena hair oil.</li> <li>● <i>Aloe vera</i> Gel / Cucumber gel.</li> <li>● Liquorice, Neem and Turmeric Cream.</li> </ul> <p>4. Importance of Quality control in cosmetic preparation and guidelines.</p>	15	01

Practical session: 02 credits

1. Water analysis – Physical parameters of water.
2. Analysis of heavy metals
  - Lead
  - Mercury.
3. Determination of chlorides and sulphates.
4. Different methods of extraction for herbal raw material.
5. Preparation of any two herbal hair oils. (Heena hair oil )
6. Preparation of any two herbal gels. (*Aloe vera* gel, Cucumber gel)

## 7. Preparation of herbal cream.

### ❖ Evaluation Pattern :

	Internal
Project work	40 Mks.

### ❖ Reference Books :

1. Himadri Panda, Herbal cosmetics Handbook .3<sup>rd</sup> revised edition.
2. Handbook on herbal products.( Vol.1 and 2)NIIR Board of Technologists,Delhi.