



**SARVODAYA KELAVANI SAMAJ MANAGED,  
SHREE MANIBHAI VIRANI & SMT. NAVALBEN VIRANI SCIENCE COLLEGE**

**AN AUTONOMOUS COLLEGE- AFFILIATED TO SAURASHTRAUNIVERSITY,  
RAJKOT**

Re-accredited at the 'A' Level (CGPA 3.28) by NAAC  
'STAR' College Scheme & Status by MST-DBT  
A College with Potential for Excellence - CPE (Phase-II) by UGC  
UGC-DDU KAUSHAL Kendra  
Accredited at the G-AAA Highest Grade 'A-1' Level by KCG, Govt. of Gujarat  
UGC-DDU KAUSHAL Kendra  
GPCB-Government of Gujarat approved Environment Audit Centre

**(Enclosure - I A3)**

Department: Biology

Programme: **B.Sc. All Programmes**

<b>Semester – II</b>		
<b>Course Code</b>	<b>Course Title (Ap)</b>	<b>Credits</b>
<b>21UBLVA01</b>	<b>Regional Medicinal plants and Herbal Remedies</b>	1 Credits (40 hrs Duration)

**Course Description:**

The course “**Regional Medicinal plants and Herbal Remedies**” is specially designed to supplement and enhance the understanding of students about The botanical wisdom accumulated by indigenous people has provided humankind with herbal drugs used in human healthcare for thousands of years. Although ancient texts are ceremonies indicate plants were used as medicine from the dawn of history, antibiotics and vaccinations developed in first half of the 20<sup>th</sup> century led conventional medicine to shun plant material for chemically synthesized replacements.

**Course Purpose:**

Concerns about modern medicine and changes in life style and research during the past 20 years, however, have led to increased interest in using plants and plant extracts as medicine. In this course, we will focus on a series of plants used in remedial medicines to treat diseases and improve health. Medicinal plants as remedy will be explored through

class presentation and discussions, looking to the future of medicines from plants. The goal of the course is to development of personal perception of medicinal botany resources for human health and welfare.

**Course Outcomes:** Upon completion of this course, the learner will be able to

CO No.	CO Statement	Blooms taxonomy Level (K <sub>1</sub> to K <sub>6</sub> )
CO <sub>1</sub>	Describe a basic knowledge of medicinal plants and traditional medicinal plants.	K <sub>1</sub> & K <sub>2</sub>
CO <sub>2</sub>	Develop skill to understanding and functioning fundamental concept of medicinal plants.	K <sub>2</sub> and K <sub>3</sub>
CO <sub>3</sub>	Develop skill to understanding and utilization of plant remedy and plant recourses.	K <sub>2</sub> and K <sub>1</sub>
CO <sub>4</sub>	Increase the awareness and knowledge of plants remedy and medical importance and application of plant product.	K <sub>1</sub> & K <sub>3</sub>
CO <sub>5</sub>	Explain conceptual understanding importance regarding Nutritive and medicinal values of plants.	K <sub>2</sub> and K <sub>3</sub>

Course Content	Hours
<b>Unit I: Ethnomedicine</b>	3Hrs
<ul style="list-style-type: none"> <li>• Introduction of medicinal plants,</li> <li>• History of traditional medicine.</li> <li>• Scope and feature of Ethnomedicinal plants</li> </ul>	
<b>Unit-II Traditional knowledge and utility</b>	3 Hrs
<ul style="list-style-type: none"> <li>• Traditional knowledge and utility of some medicinal plants in Gujarat</li> <li>• Tribal medicinal plants of Gujarat.</li> <li>• Methods of disease diagnosis and treatment.</li> </ul>	
<b>Unit- III Medicinal plants and remedies – I</b>	6 Hrs
<ul style="list-style-type: none"> <li>• Cardiovascular diseases and its remedy from medicinal plants.</li> <li>• Respiratory diseases and its remedy form medicinal plants.</li> <li>• Kidney stone - remedy form medicinal plants.</li> </ul>	
<b>Unit- IV Medicinal plants and remedies – II</b>	6 Hrs
<ul style="list-style-type: none"> <li>• Skin diseases and its remedy from medicinal plants.</li> <li>• Asthma and Bronchitis and its remedy from medicinal plants.</li> <li>• Urinogenital diseases and its remedy from medicinal plants.</li> </ul>	
<b>Unit-V Common Medicinal plants and remedies</b>	4 Hrs
<ul style="list-style-type: none"> <li>• Plants in day to day life.</li> <li>• Nutritive and medicinal values of fruits and seeds.</li> <li>• Nutritive and medicinal values of Vegetables.</li> </ul>	

1. Field study for identification of Medicinal plants.
2. Identification and medicinal values of locally available medicinal plants for Cardiovascular diseases.
3. Identification and medicinal values of locally available medicinal plants for Respiratory diseases.
4. Identification and medicinal values of locally available medicinal plants for Kidney stone..
5. Identification and medicinal values of locally available medicinal plants for Skin diseases and Asthma.
6. Identification and medicinal values of locally available medicinal plants for Urinogenital diseases.
7. Nutritive and medicinal values of fruits and seeds.
8. Nutritive and medicinal values of Vegetables.
9. To prepares powder drug of locally available medicinal plants.

**References:**

1. Ethnobiology – R.K.Sinha & Shweta Sinha – 2001. Surabhe Publications – Jaipur.
2. Tribal medicine – D.C. Pal & S.K. Jain 1998, Naya Prakash, 206, Bidhan Sarani, Calcutta – 700 006.

**Text Books:**

1. Kumar, N.C. (1993). An Introduction to Medical botany and Pharmacognosy. Emkay Publications, New Delhi.
2. Rao, A.P. (1999). Herbs that heal. Diamond Pocket Books (P) Ltd.,

**Pedagogic tools:**

- Chalk and Board.
- Power point presentation.
- Seminar.
- Videos.
- By field visit.
- e-learning – Facebook page Royal Botany.
- By models, specimens, charts, permanent slides.
- By workshop.

**Methods of Assessment & Tools:**

Components of CIE: 30 marks : Theory:

<b>Sr. No.</b>	<b>Component</b>	<b>Content</b>	<b>Duration (if any)</b>	<b>Marks</b>	<b>Sub Total</b>
<b>A</b>	Test 1	1 <sup>st</sup> 2 units	1 <sup>1/2</sup> hours	5 (Set for 30)	20
	Test 2	All 5 units	3 hours	15 (Set for 70)	
<b>B</b>	Assignment I			05 (Set for 20)	10
<b>C</b>	Assignment II			05 (Set for 20)	
<b>Grand Total</b>					<b>30</b>
<b>Assignment</b>		<ul style="list-style-type: none"><li>• Question answer</li><li>• Student generated hand book</li><li>• Essay writing</li><li>• Case study</li><li>• Abstract and exclusive study</li><li>• Power presentation</li><li>• Chart/model</li><li>• Herbarium preparation</li><li>• Poster</li><li>• Herbarium preparation</li></ul>			
<b>Class activity</b>		<ul style="list-style-type: none"><li>• Quiz</li><li>• One minute game on the base of the topic</li><li>• Group discussion,</li><li>• Student talk, etc...</li></ul>			

