

**SARDAR PATEL UNIVERSITY**  
**Programme: BSC (BOTANY)**  
**Semester: VI**  
**Syllabus with effect from: November 2013**

<b>Paper Code:</b> US06CBOT02	<b>Total Credit: 3</b>
<b>Title Of Paper:</b> Diversity & Systematics of Angiosperms and Ethnobotany	

Unit	Description in detail	Weighting (%)
<b>1</b>	<b>Significance of plant systematic</b> Aims and components of systematics, herbarium technology, Important herbaria of the world, literature in systematics and plant taxonomy, Evidences from morphology, embryology and anatomy. Principles and rules of nomenclature, ranks and names, type method, author citation, valid publication, principles of priority.	
<b>2</b>	<b>System of classification</b> Classification by Bentham and Hooker; Engler and Prantal. Their merits and demerits. Role of computers in systematics. Terms and concept: Homology, analogy, parallelism, convergence and monophyly. Origin and evolution of angiosperms.	
<b>3</b>	<b>Phytodiversity</b> Diversity - Causes of the loss of plant diversity, and methods of diversity conservation; Degradation of forest ecosystem; rare and threatened plants, endangered species, botanical gardens and national parks in India.	
<b>4</b>	<b>Ethnobotany:</b> Definition and scope of ethno botany, interdisciplinary approach in ethno botany, methods of research in Ethnobotany, role of Ethnobotany in conservation of native plant genetic resources, role of Ethnobotany in health care program me.	

**Basic Text & Reference Books:**

- Simpson, M C : Plant systematics, Elsevier
- Stussy, T F: Plant taxonomy, Columbia Univ. Press
- Jude, W S et al Plant systematics – A phylogenetic approach, Sinaner associates Inc.
- Jain, S. K. : Manual of Ethnobotany
- Negi , S S: Biodiversity and its conservation in India

