

**STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI**  
**COURSE PLAN June - November 2024**

**Department** : BOTANY  
**Name of the Faculty** : Dr. DIANA VINODHINI.S  
**Course Title** : TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY - PRACTICAL  
**Course Code** : 23BT/MC/P332  
**Shift** : I

**COURSE OUTCOMES (COs)**

<b>COs</b>	<b>Description</b>	<b>CL</b>
<b>CO1</b>	observe salient features of plants belonging to different families using key identifying characters	K1
<b>CO2</b>	compare the taxonomic characters of Angiosperms and illustrate the vegetative and reproductive structures	K2
<b>CO3</b>	examine the vegetative and reproductive parts of plants, for identification of plants to their respective families.	K3
<b>CO4</b>	demonstrate the practical skills in dissection of floral parts for given angiospermic plants	K4
<b>CO5</b>	develop practical skills in identification of plants for key preparation and acquire the skill of herbarium preparation	K5

<b>Week</b>	<b>Unit No.</b>	<b>Content</b>	<b>Cognitive Level</b>	<b>Teaching Hours</b>	<b>COs</b>	<b>Teaching Learning Methodology</b>	<b>Assessment Methods</b>
Jun 19 – 26, 2024 (Day Order 1 - 6)	1	<b>A detailed study of vegetative and reproductive characters of the plants belonging to the following families:</b> Polypetalae - Annonaceae, Rutaceae,	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Floral dissection.</li> <li>• Demonstration of practical skills in analysing taxonomic characters.</li> <li>• Lecture cum practical</li> </ul>	
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	<b>A detailed study of vegetative and reproductive characters of the plants belongs to the following families:</b> Polypetalae - Fabaceae (including the subfamilies)	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Floral dissection</li> <li>• Demonstartion of techniques in herbarium preparation</li> <li>• Lecture cum practical</li> </ul>	
July 5 – 12, 2024 (Day Order 1 - 6)	1	<b>A detailed study of vegetative and reproductive characters of the plants belongs to the following families:</b> Polypetalae - Cucurbitaceae	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Floral dissection</li> <li>• Demonstration of practical skills in analysing taxonomic characters</li> <li>• Lecture cum practical</li> </ul>	

July 15 – 23, 2024 (Day Order 1 - 6)	2	<b>A detailed study of vegetative and reproductive characters of the plants belongs to the following families:</b> Gamopetalae - Rubiaceae, sapotaceae,	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Floral dissection</li> <li>• Demonstration of practical skills in analysing taxonomic characters</li> <li>• Lecture cum practical</li> </ul>	
July 24 – 31, 2024 (Day Order 1 - 6)	2	<b>A detailed study of vegetative and reproductive characters of the plants belongs to the following families:</b> Gamopetalae - Apocynaceae , Asclepiadaceae,	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Floral dissection</li> <li>• Demonstration of practical skills in analysing taxonomic characters</li> <li>• Lecture cum practical</li> </ul>	
Aug 1 – 5, 2024 (Day Order 1 - 3)		No practical hours					
Aug 6 – 10, 2024	<b>C.A. Test - I</b>						

Aug 12 – 14, 2024 (Day Order 4-6)	2	<b>A detailed study of vegetative and reproductive characters of the plants belongs to the following families:</b> Gamopetalae - Solanaceae and Lamiaceae  Monochlamydeae	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Floral dissection</li> <li>• Demonstration of practical skills in analysing taxonomic characters</li> <li>• Lecture cum practical</li> </ul>	CA test 1 (20 marks)
Aug 16 – 23, 2024 (Day Order 1-6)	2	<b>A detailed study of vegetative and reproductive characters of the plants belongs to the following families:</b> Gamopetalae - Amaranthaceae and Euphorbiaceae	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Floral dissection</li> <li>• Demonstration of practical skills in analysing taxonomic characters</li> <li>• Lecture cum practical</li> <li>• Field trip to plant collection</li> </ul>	
Aug 27 – Sep 3, 2024 (Day Order 1-6)	2	<b>A detailed study of vegetative and reproductive characters of the plants belongs to the following families:</b>  Monocotyledones - Orchidaceae and Poaceae	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Floral dissection</li> <li>• Demonstration of practical skills in analysing taxonomic characters</li> <li>• Lecture cum practical</li> </ul>	

Sep 4 – 11, 2024 (Day Order 1-6)	2	<b>A detailed study of vegetative and reproductive characters of the plants belongs to the following families:</b> Monocotyledones - Orchidaceae and Poaceae	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Floral dissection</li> <li>• Demonstration of practical skills in analysing taxonomic characters</li> <li>• Lecture cum practical</li> </ul>	
Sep 12 - 20, 2024 (Day Order 1-6)	3	<b>Economic Botany</b> Economically important products of plants included in the syllabus - binomial , family and morphology of the useful parts and uses	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Floral dissection</li> <li>• Demonstration of practical skills in analysing taxonomic characters</li> <li>• Lecture cum practical</li> </ul>	
Sep 23 - 26, 2024 (Day Order 1-4)	4	No practical hour					
Sep 27 – Oct 3, 2024	<b>C.A. Test - II</b>						
Oct 4 – 5, 2024 (Day 5 & 6)	4	<b>Economic Botany</b> Economically important products of plants included in the syllabus - Binomial, family and morphology of the useful parts and uses	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Lecture cum practical</li> <li>• Demonstrating the economically important plant products</li> </ul>	CA test II (20 marks)

Oct 7 - 15, 2024 (Day Order 1 to 6)	4	<b>1. Key Preparation</b> Preparation of dichotomous key for the given specimens	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Lecture cum practical</li> <li>• Practical demonstration of taxonomic key preparation</li> </ul>	Submission of Record work (10 Marks)
Oct 16 - 22, 2024 (Day Order 1 to 6)	4	<b>1. Key Preparation</b> Preparation of dichotomous key for the given specimens	K1-K5	3	CO1-5	<ul style="list-style-type: none"> <li>• Lecture cum practical</li> <li>• Practical demonstration of taxonomic key preparation</li> </ul>	
Oct 23 - 24, 2024 (Day Order 1 to 2)	<b>REVISION</b>						