Department Name/s of the Fa Course Title Course Code Shift	STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI COURSE PLAN June - November 2024 : BOTANY aculty : *Dr. DIANA VINODHINI & Ms. NANDHINI. K : TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY : 23BT/MC/TE34 : I	
	COURSE OUTCOMES (COs)	
COs	Description	CL
CO1	recognize the fundamental concept on morphology; recollect technical description and nomenclature of angiosperm plants	K1
CO2	classify taxonomic structure, hierarchy and examine systems of classification and nomenclature rules	K2
CO3	identify the diagnostic features of various angiosperm plants and interpret their family characters	К3
CO4	analyze the diagnostic features and explain the economic importance of selected families	K4
C05	evaluate and create taxonomic key & herbarium specimens by compiling the knowledge on plant identification	K5

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 19 – 26, 2024 (Day Order 1 - 6)	1	 * Classification and Plant Morphology 1.1 Overview of Plant Morphology - Habit, Roots, Stems, Leaves 	K1-K5 K1, K2, K5	3	CO1-5	PPT, Lecture	
	2	2 Nomenclature and Herbaria2.1 Plant Nomenclature: Binomial and Polynomial		2			
Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	*1.1 Overview of Plant Morphology - Inflorescence, Flowers and Fruits	K1-K5	3	CO1-5	Field work Lecture through, PPT and video presentations	
	2	2.1 ICN –Typification, Effective and Valid Publication, Author Citation	K1, K2, K5	2			
July 5 – 12, 2024 (Day Order 1 - 6)	1	 *1.2 Phenetic (Linnaean, Bentham and Hooker) 2.1 Important Botanical Gardens – Kew Gardens, London; Acharya 	K1-K5	3	CO1-5	Lecture through, PPT and video presentations Group discussions	PRESENTATION (10 MARKS)
	2	Jagadish Chandra Bose Botanic garden, Calcutta.	K1, K2, K5	2			

July 15 – 23, 2024 (Day Order 1 - 6)	2	* 1.2 Phylogenetic (Angiosperm Phylogeny Group IV (APG IV) Systems of Classification	K1, K2, K5	3	CO1-5	Lecture cum Practical exposure	MCQ test on unit 1.1 (15 marks)
		2.2 Herbarium Techniques: Collection, Pressing, Drying, Poisoning, Mounting and Preservation of Plant Specimens		2			
July 24 – 31, 2024 (Day Order 1 - 6)	2	* 1.3 Introduction to Chemotaxonomy, Numerical taxonomy	K1, K2, K5	3	CO1-5	Group discussions	
		2.2 Important Herbaria – BSI, Coimbatore; Rapinat Herbarium,Trichy		2			
Aug 1 – 5, 2024 (Day Order 1 - 3)	2	*1.3 Introduction to Molecular taxonomy	K1, K2, K5	2	CO1-5	Lecture cum Practical	
		2.3 Taxonomic Keys		1			
Aug 6 – 10, 2024		,					

Aug 12 – 14, 2024 (Day Order 4-6)	3	 *A Detailed Study and Economic Importance of the following Families: 3.1 Polypetalae - Annonaceae, 2.3 Taxonomic Keys (Intended and Bracketed keys) and their uses 	K3, K4, K5	1	CO1-5	PPT, Lecture	
Aug 16 – 23, 2024 (Day Order 1-6)	3	*3.1 Rutaceae, Fabaceae (including the subfamilies) A Detailed Study and Economic Importance of the following Families	K3, K4, K5	3 2	CO1-5	PPT, Lecture	
Aug 27 – Sep 3, 2024 (Day Order 1-6)	3	 *3.1 Cucurbitaceae Detailed Study and Economic Importance of the following Families: 4.1 Gamopetalae Solanaceae 	K3, K4, K5	3 2	CO1-5	PPT, Lecture	

Sep 4 – 11, 2024 (Day Order 1-6)	3	*3.2 Gamopetalae - Rubiaceae, Sapotaceae, Apocynaceae and Asclepiadaceae	K3, K4, K5	3	CO1-5	Lecture cum Practical	QUIZ (25 MARKS)
	4	Detailed Study and Economic Importance of the following Families 4.1 Gamopetalae- Lamiaceae		2			
Sep 12 - 20, 2024 (Day Order 1-6)	5	*5.1 A Brief Study of the Morphology, Processing and Uses of the following: Beverages (Camellia sinensis), Sugar (Saccharum officinarum), Oil (Arachis hypogaea)	K3, K4, K5	3	CO1-5	Lecture cum Practical	
	4	Detailed Study and Economic Importance of the following Families 4.2 Monochlamydeae – Amaranthaceae		2			

Sep 23 - 26, 2024 (Day Order 1-4)	5	*5.2 Botanical name, Common name, Family, Morphology of useful part and Uses of :Cereals(Triticum aestivum, Oryza sativa and Avena sativa), Millets (Sorghum bicolor, Setaria italica and Eleusine coracana), fibre yielding plants (Gossypium spp, Corchorus spp and Cannabis sativa) and dye yielding plants (Indigofera tinctoria, Acacia catechu and Haematoxylum campechianum)	K3, K4, K5	2	CO1-5	Lecture cum Practical	
	4	Families 4.2 Monochlamydeae- Euphorbiaceae		1			
Sep 27 – Oct 3, 2024				C.A	. Test - II		

Oct 4 – 5, 2024 (Day 5 & 6)	5	*5.3 Botanical name, Common name, Family, Morphology of useful part and Uses of:Oil yielding plants(mustard, Sesamum indicum and Cocos nucifera)Medicinal plants (Asparagus racemosus, Catharanthus roseus and Withania somnifera) Detailed Study and Economic Importance of the following Families 4.3 Monocotyledones – Orchidaceae	K3, K4, K5	2	CO1-5	Lecture cum Practical	
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	 *5.3 Botanical name, Common name, Family, Morphology of useful part and Uses of Medicinal plants (Asparagus racemosus, Catharanthus roseus and Withania somnifera) Detailed Study and Economic Importance of the following Families 	K3, K4, K5	3	CO1-5	Lecture cum Practical	
		4.3 Monocotyledones – Orchidaceae					

Oct 16 - 22, 2024 (Day Order 1 to 6)	5	5*.3 Spices and condiments (Piper nigrum, Coriandrum sativum and Laurus nobilis)Uses of Fumitories and Masticatories (Nicotiana tabacum, Areca catechu and Piper betle)	K3, K4, K5	2	CO1-5	Lecture cum Practical	
	4	Detailed Study and Economic Importance of the following Families 4.3 Monocotyledones- Poaceae		2			
Oct 23 - 24, 2024 (Day Order 1 to 2)		·		RF	EVISION		