

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

Department : Botany
Name/s of the Faculty : Dr.S.Sathya Bama & Dr.Antony Rose Immaculate C
Course Title : Phytotherapy and Ethnobotany
Course Code : 23BT/MC/PE33
Shift : I

COURSE OUTCOMES (COs)

COs	Description	CL
CO1	recall the methods of drug preparation and organoleptic study using the herbal plants and examine their ethnobotanical concept.	K1
CO2	understand the ethnobotanical knowledge of tribes and relate it for herbal preparations, pharmacognosy and research.	K2
CO3	apply the method of drug preparation through herbal plants and discover various concepts of ethnobotanical research	K3
CO4	analyse the ethnobotanical knowledge of plant compounds and explain the method of herbal preparation	K4
CO5	summarize the concept of Traditional Knowledge, phytochemical analysis and evaluate the herbal preparations.	K5

Week	Unit No.	Content	Cognitive Level	Teaching Hours	COs	Teaching Learning Methodology	Assessment Methods
Jun 19 – 26, 2024 (Day Order 1 - 6)	1	Origin of Herbs in Health Care 1.1. Basic principles of Ayurveda and Siddha: Panchamahabhutas and Tridhoshha concept, Basic principles of Ayurveda and Siddha: Malas, Agni, Prakruti	K2-K5	3	1-5	Lecture through PPT and Group Discussion	
	2	Organoleptic Study 2.1 Roots and Underground Stem– <i>Rauwolfia serpentine</i> and <i>Zingiber officinalis</i>	K2-K4	1	1-5		

Jun 27 – July 4, 2024 (Day Order 1 - 6)	1	1.2. Drug preparation: Ashwam,Arishtam, Thailam,Churnam, Leghyam,Bhasmam, Infusion and Decoction, Poultice: Salves, Compresses, Mouthwash	K1-K5	3	1-5	Lecture through PPT and Learning by doing	Quiz – 20 Marks
	2	2.1 Roots and Underground Stem - <i>Zingiber officinalis</i>	K2-K4	1	1-5		
July 5 – 12, 2024 (Day Order 1 - 6)	1	1.3. Adulteration, Detection and Standardization in Herbal drugs	K5	2	1-5	Lecture through PPT and Experiments	
		1.4. Validation of Herbal Drugs and Good Manufacturing Practices	K5	1	1-5		
	2	2.2 Leaves and Bark: <i>Aloe vera</i>	K2-K4	1	1-5		

<p>July 15 – 23, 2024 (Day Order 1 - 6)</p>	<p>3 2</p>	<p>Ethnobotany 3.1..Definition and scope 2.2 Leaves and Bark: <i>Cinnamomun zeylanicum</i></p>	<p>K2 K2-K4</p>	<p>3 1</p>	<p>1-5 1-5</p>	<p>Lecture through PPT and Group Discussion</p>	
<p>July 24 – 31, 2024 (Day Order 1 - 6)</p>	<p>3 2</p>	<p>3.2 Methodologies of Ethnobotanical Research;Field work, Literature, Herbaria and Musea 2.3 Flowers and Fruits: <i>Hibiscus rosa-sinensis</i></p>	<p>K4 K2-K4</p>	<p>3 1</p>	<p>1-5 1-5</p>	<p>Lecture through PPT and Field Trip</p>	

Aug 1 – 5, 2024 (Day Order 1 - 3)	3	3.3 Ethnobotany as a lead to modern drug discovery: Memory plus and Pankajakasthuri choornam,	K4	1	1-5	Lecture through presentation	Submission of Scrap book for Organoleptic studies – 10 Marks	
	2	2.3 Flowers and Fruits: <i>Piper longum</i> .	K2-K4	1	1-5			
Aug 6 – 10, 2024	C.A. Test - I							
Aug 12 – 14, 2024 (Day Order 4-6)	3	3.4 Bioprospecting and Role of AYUSH	K5	2	1-5	Group Discussion		
Aug 16 – 23, 2024 (Day Order 1-6)	4	Ethnobotany and Conservation of Medicinal Plants 4.1 Role of Ethnobotany in Conservation of Biodiversity	K2	3	1-5	Interaction with Irulas		
	2	2.4 Seeds and Whole plant: <i>Azadirachta indica</i>	K2-K4	1	1-5			

<p>Aug 27 – Sep 3, 2024 (Day Order 1-6)</p>	<p>4</p>	<p>4.2 Ex-situ Conservation and In-situ Conservation 2.4 Seeds and Whole plant: <i>Trigonella foenum-graceum</i></p>	<p>K5 K2-K4</p>	<p>3 1</p>	<p>1-5 1-5</p>	<p>Lecture through PPT</p>	
<p>Sep 4 – 11, 2024 (Day Order 1-6)</p>	<p>4</p>	<p>4.3 Ethnobotanical studies of Irula Tribes 4.4 Traditional Knowledge (TK) in relation to Intellectual Property Rights and Biopiracy</p>	<p>K4 K2-K4</p>	<p>2 2</p>	<p>1-5 1-5</p>	<p>Lecture</p>	

Sep 12 - 20, 2024 (Day Order 1-6)	5	Ayurveda and Beauty 5.3 Preparation of the Following (practical)Ayurveda/ Siddha medicines for Common Ailments : Infusion and Decoction, Mouth wash and Herbal Tooth powder, Tailam, Churnum,Leghyam, Preparation of Herbal Tea and Soups.	K5	4	1-5	Lecture using PPT and an Interaction session with an expert	Preparation of few Aurvedic and Siddha medicines – 20 Marks
Sep 23 - 26, 2024 (Day Order 1-4)	5	5.1 Role of Dhatu in Physical Beauty and to Enhance Beauty	K2	2	1-5	Lecture using PPT	
Sep 27 – Oct 3, 2024	C.A. Test - II						

Oct 4 – 5, 2024 (Day 5 & 6)	5	5.2 Essential Oils and Aroma Therapy	K4	2		Learning by doing	
Oct 7 - 15, 2024 (Day Order 1 to 6)	5	5.4. Facial and Herbal Hair	K5	4		Learning by doing	
Oct 16 - 22, 2024 (Day Order 1 to 6)	5	5.4. Facial and Herbal Hair	K5	4		Learning by doing	
Oct 23 - 24, 2024 (Day Order 1 to 2)	REVISION						