## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

**Course Schedule: June - November 2024** 

**Department** : Botany

Name/s of the Faculty : Dr.S.Sathya Bama

Course Title : Ecology and Environmental Biotechnology

Course Code : 19BT/MC/EE54

Shift : I

Jun 19 – 26, 2024 1.1 Quali (Day Order 1 - 6) Analysis Commun	of Plant	Methodology  Lecture through  PPT	References  Ecology &  Environment -  Sharma, P. D  Environment and	Evaluation
(Day Order 1 - 6) Analysis	of Plant	_	Environment - Sharma, P. D	
		_	Sharma, P. D	
Commun	ities	PPT	•	
			Environment and	
			Ecology -	
			Deepender, B.	
Jun 27 – July 4, 2024 1.2 Quant	titative	Lecture through	Ecology &	
(Day Order 1 - 6) Analysis	of Plant	PPT and Learning	Environment -	
Commun	ities	by doing	Sharma, P. D	
			Environment and	
			Ecology -	
			Deepender, B.	
July 5 – 12, 2024 1.3 Samp	_	Chalk and board	Environmental	
(Day Order 1 - 6) Population	,,,,  —	followed by plant	Ecology –	
Quadrant		Community survey practical	Bhatia, S. C.	
transect, I		praetical		
point met	thod		Plant Ecology and	
			Phytogeography –	
			Kumaresan and N.	
2.1 Terre	ctrial		Arumugam	
		PPT and Field		
Ecosyster	111	work		
July 15 – 23, 2024 2.2 Aqua	tic	Through PPT and	Plant Ecology and	
2.2 / 1900		imought i und	Phytogeography –	

(Day Order 1 - 6)	Ecosystem	Practical exposure	Kumerasan and N. Arumugam	
July 24 – 31, 2024 (Day Order 1 - 6)	2.3 Ecological Adaptations – Hydrophytes, Xerophytes and Halophytes	Through PPT and Practical skill	Plant Ecology and Phytogeography – Kumerasan and N. Arumugam	Model preparation on different ecosystem— 10 Marks
Aug 1 – 5, 2024	3.1	Lecture cum PPT	Environmental	
(Day Order 1 - 3)	Biomagnification		Biology &	
			Toxicology –	
			Sharma, P.D.	
			Ecology and	
			Toxicology –	
			Arumugam, N	
Aug 6 – 10, 2024	C.A. Test – I			

Aug 12 – 14, 2024	3.2	Lecture cum PPT	Environmental	
(Day Order 4-6)	Bioaccumulation		Biology &	
			Toxicology –	
			Sharma, P.D.	
			Ecology and	
			Toxicology –	
			Arumugam, N	
Aug 16 – 23, 2024	3.3	Lecture cum PPT	Environmental	
(Day Order 1-6)	Biotransformation – DDT		Biology &	
			Toxicology –	
			Sharma, P.D.	
			Ecology and	
			Toxicology –	
			Arumugam, N	
Aug 27 – Sep 3, 2024	4.1 Bioindicators	Lecture cum PPT	Biotechnology –	Quiz from unit 3
(Day Order 1-6)			Purohit, S.S. and	– 15 marks
			Mathur, S.K.	
Sep 4 – 11, 2024	4.2 Bioleaching		Environmental	
(Day Order 1-6)		Lecture cum PPT	Biology &	
			Toxicology – Sharma, P.D.	
g 12 20 2024	1.2	I DDT	·	
Sep 12 - 20, 2024	4.3 Phytoremediation	Lecture cum PPT	Elements of Biotechnology -	
(Day Order 1- 6)			Gupta, P.K.	
			Environmental	
			Biology &	
			Toxicology –	
			Sharma, P.D.	
Sep 23 - 26, 2024	5.1 Environment	Lecture cum PPT	Environmental	
(Day Order 1-4)	Impact Assessment	and Group	Biology &	
		discussions	Toxicology – Sharma, P.D.	
			Ecology and	
			Toxicology by	
			Arumuga N	
Sep 27 – Oct 3, 2024	C.A. Test – II			<u>I</u>

Oct 4 – 5, 2024	5.2 Environment	Lecture cum PPT	Environmental	
(Day 5 & 6)	Quality		Biology &	
	Monitoring of Air		Toxicology –	
			Sharma, P.D.	
			Ecology and	
			Toxicology by	
			Arumuga N	
Oct 7 - 15, 2024	5.2 Environment	Lecture cum PPT	Environmental	
(Day Order 1 to 6)	Quality		Biology &	
	Monitoring of		Toxicology –	
	Water		Sharma, P.D.	
			Ecology and	
			Toxicology by	
			Arumuga N	
Oct 16 - 22, 2024	5.3 Environment	Lecture cum PPT	Environmental	
(Day Order 1 to 6)	Risk Assessment		Biology &	
			Toxicology –	
			Sharma, P.D.	
			Ecology and	
			Toxicology by	
			Arumugam N	
Oct 23 - 24, 2024	DTV-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7			
(Day Order 1 to 2)		KEV	ISION	