

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS) KUMBAKONAM**  
(Curriculum – B.Sc., BOTANY – 2021 - 2022)

Department : BOTANY

Programme Code: USBO

**SEMESTER – I**

Part	Course Type	Course Code	Title of the Course	Hrs/Week	Credits	Exam Hrs	Marks		
							CIA	ESE	Total
I	LC	U211T1	Tamil	6	3	3	25	75	100
II	ELC	U211E1	English	6	3	3	25	75	100
III	CC – I	U21BOC101	Algae, Fungi and Lichens	6	5	3	25	75	100
III	CC – II	U21BOC102P	Practical II - Algae, Fungi and Lichens	3	2	3	40	60	100
III	AC - I	U211AZ1	Biology of Invertebrates and Chordates	5	4	3	25	75	100
III	AC – II	U212AZ2P	Allied Zoology – Practical II	2	--	--	--	--	---
IV	AEC	U211VE	Value Education	2	2	3	25	75	100
<b>Total</b>				<b>30</b>	<b>19</b>				<b>600</b>

**SEMESTER – II**

Part	Course Type	Course Code	Title of the Course	Hrs/Week	Credits	Exam Hrs	Marks		
							CIA	ESE	Total
I	LC	U212T2	Tamil	6	3	3	25	75	100
II	ELC	U212E2	English	6	3	3	25	75	100
III	CC – III	U21BOC203	Microbiology and Plant Pathology	6	5	3	25	75	100
III	CC – IV	U21BOC204P	Practical IV- Microbiology and Plant Pathology	3	2	3	40	60	100
III	AC -II	U212AZ3	General Principles and Applied Zoology	5	4	3	25	75	100
III	AC - III	U212AZ2P	Allied Zoology - Practical II	2	4	3	40	60	100
IV	AEC	U212ES	Environmental Studies	2	2	3	25	75	100
<b>Total</b>				<b>30</b>	<b>23</b>				<b>700</b>

**SEMESTER – III**

Part	Course Type	Course Code	Title of the Course	Hrs/Week	Credits	Exam Hrs	Marks		
							CIA	ESE	Total
I	LC	U213T3	Tamil	6	3	3	25	75	100
II	ELC	U213E3	English	6	3	3	25	75	100
III	CC - V	U21BOC305	Bryophytes, Pteridophytes, Gymnosperms and Paleobotany	6	5	3	25	75	100
III	CC - VI	U21BOC306P	Practical VI - Bryophytes, Pteridophytes, Gymnosperms, and Paleobotany	3	2	3	40	60	100
III	AC – IV	U213ACH1	Allied Chemistry - I	5	4	3	25	75	100
III	AC – V	U214ACH2P	Allied Chemistry Practical-II	2	--	--	--	--	--
IV	NMEC– I	U21BO3NME1:1	Biofertilizers and Biopesticides.	2	2	3	25	75	100
		U21BO3NME1:2	Laboratory Techniques						
<b>Total</b>				<b>30</b>	<b>19</b>				<b>600</b>
	SSC - I	U213SS1	Mathematics Aptitude for Recruitment Board Examinations	-	2	2	-	100	100

**SEMESTER – IV**

Part	Course Type	Course Code	Title of the Course	Hrs/Week	Credits	Exam Hrs	Marks			
							CIA	ESE	Total	
I	LC	U214T4	Tamil	6	3	3	25	75	100	
II	ELC	U214E4	English	6	3	3	25	75	100	
III	CC -VII	U21BOC407	Anatomy and Embryology	5	5	3	25	75	100	
III	CC – VIII	U21BOC408P	VIII – Practical Anatomy and Embryology	3	2	3	40	60	100	
III	AC - IV	U214ACH2P	Allied Chemistry Practical	2	4	3	40	60	100	
III	AC - V	U214ACH3	Allied Chemistry - III	4	4	3	25	75	100	
IV	NMEC– II	U21BO4NME2:1	Horticulture	2	2	3	25	75	100	
		U21BO4NME2:2	Seed Pathology							
IV	SEC – I	U214BOSE1	Mushroom Technology	Theory	1	1	-	20	-	100
				Practical	1	1	2	20	60	
<b>Total</b>				<b>30</b>	<b>25</b>				<b>800</b>	
	SSC – II	U214SS2	Social Study for Competitive Examinations		2	2	-	100	100	

**SEMESTER – V**

Part	Course Type	Course Code	Title of the Course	Hrs/Week	Credits	Exam Hrs	Marks			
							CIA	ESE	Total	
III	CC – IX	U21BOC509	Cell and Molecular Biology.	5	5	3	25	75	100	
III	CC – X	U21BOC510	Genetics, Biostatistics and Evolution	5	5	3	25	75	100	
III	CC – XI	U21BOC511	Morphology, Taxonomy and Economic Botany	5	5	3	25	75	100	
III	CC – XII	U21BOC512P	Practical XII Cell and Molecular Biology, Genetics, Biostatistics and Evolution, Morphology, Taxonomy and Economic Botany	6	4	3	40	60	100	
III	MBEC – I	U21BO5MBE1:1	Bio-resource and Human Welfare	5	5	3	25	75	100	
		U21BO5MBE1:2	Applied Microbiology							
		U21BO5MBE1:3	Biological Control							
IV	SEC – II	U215BOSE2	Medicinal and applied Botany	Theory	1	1	-	20	-	60
				Practical	1	1	2	20	60	40
IV	SEC –III	U215BOSE3P	Basics of computer Applications - Practical	2	2	2	40	60	100	
<b>Total</b>				<b>30</b>	<b>28</b>				<b>700</b>	

**SEMESTER – VI**

Part	Course Type	Course Code	Title of the Course	Hrs/Week	Credits	Exam Hrs	Marks		
							CIA	ESE	Total
III	Core –XIII	U21BOC613	Plant Physiology, Biochemistry and Biophysics.	6	5	3	25	75	100
III	CC – XIV	U21BOC614	Plant Ecology and Conservation.	6	5	3	25	75	100
III	CC – XV	U21BOC615P	Practical XV- Plant Physiology Biochemistry, Biophysics, Plant Ecology and Conservation.	6	4	3	40	60	100
III	MBEC – II	U21BO6MBE2:1	Plant breeding, Landscaping and Horticulture	6	5	3	25	75	100
		U21BO6MBE2:2	Presentation of Fruits and Vegetables						
		U21BO6MBE2:3	Biotechnology						
III	MBEC– III	U21BO6MBE3:1	Plant Biotechnology and Bioinformatics.	5	5	3	25	75	100
		U21BO6MBE3:2	Environmental Biotechnology						
		U21BO6MBE3:3	Plant Tissue Culture						
V	AEC	U216GS	Gender Studies	1	1	3	25	75	100
V		U21EA	Extension Activities	-	1	-	-	-	-
<b>Total</b>				<b>30</b>	<b>26</b>				<b>600</b>
				<b>180</b>	<b>144</b>				<b>4200</b>

**COURSE OFFERED BY THE DEPARTMENT OF BOTANY**

Part	Course Type	Course Code	Title of the Course	Hrs/Week	Credits	Exam Hrs	Marks		
							CIA	ESE	Total
III	AC -I	U213AB1	Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms, Taxonomy and Horticulture	5	4	3	25	75	100
III	AC - II	U214AB2P	Allied Botany - Practical II	2	4	3	40	60	100
III	AC – III	U214AB3	Anatomy, Embryology, Physiology and Phytotherapy	5	4	3	25	75	100

**COURSE STRUCTURE ABSTRACT FOR  
B.Sc., BOTANY PROGRAMME 2020-2022 ONWARDS**

Part	Course	Total No. of Papers	Hours	Credit	Mark
I	Language Course (LC)	4	24	12	400
II	English Language Course (ELC)	4	24	12	400
III	Core Course (CC)	15	74	61	1500
III	Allied Course (AC)	6	27	24	600
III	Major Based Elective Course (MBEC)	3	16	15	300
IV	Skill Enhancement (SEC)	3	6	6	300
IV	Non Major Elective Course (NMEC)	2	4	4	200
IV	Ability Enhancement Course (AEC)	Value Education	1	2	100
IV		Environmental Studies	1	2	100
V		Gender Studies	1	1	100
V	Extension Activities	--		1	---
<b>Total</b>		<b>40</b>		<b>140</b>	<b>4000</b>
<b>Extra Credit Courses</b>					
Self Study Course(SSC)		2		4	200
<b>Total</b>		<b>42</b>	<b>180</b>	<b>144</b>	<b>4200</b>