

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

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
Total				30	19				600

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 and protection	6	5	3	25	75	100
III	CC – IV	U21BOC204P	Practical IV- Microbiology and Plant Pathology and Plant protection	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
Total				30	23				700

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,	3	2	3	40	60	100

			Gymnosperms, and Paleobotany						
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						
Total				30	19				600
	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 and microtechque	5	5	3	25	75	100	
III	CC – VIII	U21BOC408P	VIII – Practical Anatomy and Embryology and microtechque	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	
Total				30	25				800	
	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 of Angiosperm 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 of Angiosperm 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
Total				30	28				700	

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	Preservation 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	-	-	-	-
Total				30	26				600
				180	144				4200

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	2	100
IV		Environmental Studies	1	2	2	100
V		Gender Studies	1	1	1	100
V	Extension Activities		--		1	---
Total			40		140	4000
Extra Credit Courses						
Self Study Course(SSC)			2		4	200
Total			42	180	144	4200

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS), KUMBAKONAM
DEPARTMENT OF BOTANY
B.SC., BOTANY - REVISED COURSE STRUCTURE UNDER CBCS
(For the candidates admitted from the Academic year 2018 - 19 onwards)
(Current)

Sem	Course code	Course Title	Inst, Hrs/ Week	Credits	Marks	
I	17GT1	Part I Language Tamil	6	3	100	
	17GE1	Part II Language English	6	3	100	
	18BOC101	Part III Core Course I – Bacteria, Virus, Algae Fungi and Lichens	6	5	100	
	18BOC202P1	Part III Core Course II - Bacteria, Virus, Algae Fungi and Lichens & Plant Pathology and Plant Protection (P)	3	-	-	
	182AZ1	Part III Allied Course I	6	4	100	
	182AZ2P	Part III Allied Course II - Practical	3	-	-	
			Total	30	15	400
II	17GT2	Part I Language Tamil	6	3	100	
	17GE2	Part II Language English	6	3	100	
	18BOC203	Part III Core Course III - Plant Pathology and Plant Protection	3	5	100	
	18BOC202P1	Part III Core Course II - Bacteria, Virus, Algae and Fungi, Lichens, Plant Pathology and Plant Protection (P)	5	5	100	
	182AZ2P	Part III Allied Course II - Practical	2	3	100	
	182AZ3	Part III Allied Course III Theory	4	3	100	
	18UVE	Part IV Value Education Yoga	2	2	100	
	UGCES	Part IV Environmental Studies	2	2	100	
			Total	30	26	800
	III	17GT3	Part I Language Tamil	6	3	100
17GE3		Part II Language English	6	3	100	
18BOC304		Part III Core Course IV–Bryophytes, Pteridophytes, Gymnosperms and Pale botany	6	5	100	
18BOC405P2		Part III Core Course V – Bryophytes, Pteridophytes, Gymnosperms and Pale botany, Anatomy and Embryology (P)	3	-	-	
184ACH1		Part III Allied Course IV Practical	5	4	100	
184CH2P		Part III Allied Course V Theory	2	-	-	
18BO3NMEC1		Part IV Non – Major Elective Biofertilizers and Biopesticides.	2	2	100	
			Total	30	17	500

Sam	Course code	Course Title	Inst, Hrs/ Week	Credits	Marks
IV	17GT4	Part I Language Tamil	6	3	100
	17GE4	Part II Language English	6	3	100
	18BOC405P2	Part III Core Course V – Bryophytes, Pteridophytes, Gymnosperms and Pale botany, Anatomy and Embryology (P)	2	5	100
	18BOC406	Part III Core Course VI-Anatomy and Embryology	5	4	100
	184ACH2P	Part III Allied Course IV Practical	3	4	100
	184ACH1	Part III Allied Course VI Theory	4	3	100
	SBHT	Part IV Skilled Base – Herbal Technology	2	2	100
	18BO4NMEC2	Part IV Non – Major Elective course Horticulture	2	2	100
		Total	30	26	800
V	18BOC507	Part III Core Course VII –Cell and molecular biology	6	6	100
	18BOC508	Part III Core Course VIII –Genetics, Biostatistics and Evolution	5	5	100
	18BOC509	Part III Core Course IX –Morphology, Taxonomy and Economic Botany	5	5	100
	18BOC10P3	Part III Core Course X- Cell and molecular biology, Genetics, Biostatistics and Evolution & Morphology, Taxonomy and Economic Botany (P)	5	5	100
	18BO5EC3	Part III Elective Course I –Medical and Applied Botany	5	5	100
	SBBH	Part IV Skill Based Bio resources and human welfare	2	2	100
	SBMT	Part IV Skill Based Mushroom technology	2	2	100
		Total	30	30	700
VI	18BOC611	Part III Core Course XI –Plant Physiology, Biochemistry and Biophysics	6	5	100
	18BOC612	Part III Core Course XII - Plant Ecology and Conservation	6	5	100
	18BOC613P4	Part III Core Course XIII - Plant Physiology, Biochemistry and Biophysics & Plant Ecology and Conservation (P)	6	5	100
	18BO6EC4	Part III Elective Course II – Plant Breeding, Horticulture and Landscaping.	5	5	100
	18BO6EC5	Part III Elective Course III –Plant Biotechnology and Bioinformatics	6	4	100
		Extension Activities	-	1	-
		Gender Studies	1	1	100
		Total	30	26	600

Total no of Papers : 38
 Total Hours : 180
 Credit : 140
Marks : 3800