

PG and Research Department of Botany
 College with Potential for Excellence
 Accredited (3rd Cycle) with 'A' Grade by NAAC
 (Affiliated to Bharathidasan University)
 Tiruchirappalli – 620 020

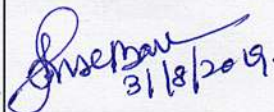
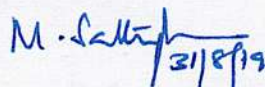
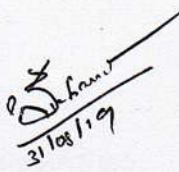
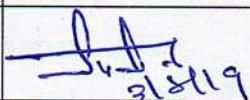
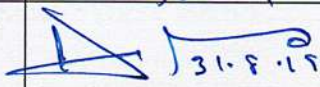
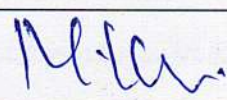
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Board of Studies Meeting (External)

Date: 31.08.2019

Venue: Botany Department Seminar Hall (A/c)

Time: 9.30 am

S. No.	Name & Designation	Category	Signature
1.	Dr. M. Ghouse Basha Associate Professor & Head Dean & Faculty of Science, Department of Botany. Jamal Mohamed College (Autonomous)	Chairman	 31/8/2019.
2.	Dr. S. Muruges Professor & Head, Department of Botany, Periyar University, Periyar Palkali Nagar, Salem – 636011, Tamil Nadu, India Email ID: murugesshs@rediffmail.com dr.murugeshs@gmail.com Mobile: +917373009999, +917373009998	Subject Expert Academic Council Nominee	
3.	Dr. M. Sathiyabama Associate Professor, Department of Botany, Bharathidasan University, Tiruchirappalli – 620024, Tamil Nadu, India. Email ID: sathiyabama@yahoo.com Mobile: +919443893527	Vice Chancellor Nominee University Representative	 31/8/19
4.	Dr. A. Akbar Assistant Professor and Head, Department of Botany, C. Abdul Hakeem College (Autonomous), Melvisharam, Vellore – 632509, Tamil Nadu, India. Email ID: akr_akbar@yahoo.com Mobile: +919965771585	Alumni Representative	 31/08/19
5.	Dr. H. Syed Jahangir Associate Professor of Botany Jamal Mohamed College (Autonomous)	Member	 31/8/19
6.	Dr. A. Shajahan Associate Professor of Botany Jamal Mohamed College (Autonomous)	Member	 31.8.19
7.	Dr. M. Kamaraj Assistant Professor of Botany, Jamal Mohamed College (Autonomous)	Member	
8.	Dr. R. Ravi Kumar Assistant Professor of Botany, Jamal Mohamed College (Autonomous)	Member	
9.	Dr. A. Aslam Assistant Professor of Botany, Jamal Mohamed College (Autonomous)	Member	
10.	Dr. K. Mohamed Rafi Assistant Professor of Botany, Jamal Mohamed College (Autonomous)	Member	

UG (Science) Programme – Course Structure under CBCS

(Applicable to the candidates admitted from the academic year 2020 – 2021 onwards) 22.07.2019

Candidates admitted from the academic year 2020 – 2021 onwards)										22.07.2019
SEM	COURSE CODE	PART	COURSE	COURSE TITLE	Ins. Hrs /Week	CREDIT	MARKS		TOTAL	
							CIA	ESE		
I	20U1LT1/LA1/LF1/LH1/LU1	I	Language – I		6	3	25	75	100	
	20UCN1E1	II	English – I		6	3	25	75	100	
	20UBO1C1	III	Core – I	Plant Diversity (Algae, Fungi and Archegoniate)	5	5	25	75	100	
	20UBO1C2P		Core – II	Laboratory Course for Core – I	3	2	25	75	100	
	20UCH1A1		Allied – I	Inorganic, Organic and Physical Chemistry – I	5	4	25	75	100	
	20UCH1A2P		Allied – II	Practical – I – Volumetric Estimations	3	2	25	75	100	
	20UCN1VE	IV	Value Education	Value Education	2	2	-	100	100	
	TOTAL				2	2	-	100	100	
II	20U2LT2/LA2/LF2/LH2/LU2	I	Language – II		30	21			700	
	20UCN2E2	II	English – II		6	3	25	75	100	
	20UBO2C3	III	Core – III	Plant Anatomy and Embryology	6	3	25	75	100	
	20UBO2C4P		Core – IV	Laboratory Course for Core – III	6	5	25	75	100	
	20UCH2A3		Allied – III	Inorganic, Organic and Physical Chemistry – II	3	2	25	75	100	
	20UCH2A4P		Allied – IV	Practical – II – Organic Analysis	4	3	25	75	100	
	20UCN2ES	IV	Environmental Studies	Environmental Studies	3	2	25	75	100	
	TOTAL				2	2	-	100	100	
III	20U3LT3/LA3/LF3/LH3/LU3	I	Language– III		30	20			700	
	20UCN3E3	II	English – III		6	3	25	75	100	
	20UBO3C5	III	Core – V	Cytology and Genetics	6	3	25	75	100	
	20UBO3C6P		Core – VI	Laboratory Course for Core – V	4	4	25	75	100	
	20UZO3A5		Allied – V	Animal Structure and Function	3	2	25	75	100	
	20UZO3A6P		Allied – VI	Animal Structure and Function – Practical	4	3	25	75	100	
	20UBO3E1	IV	Non-Major Elective – I	Edible Mushroom Cultivation	3	2	25	75	100	
	20UCN3S1		Skill Based Elective – I	Soft Skills Development	2	2	-	100	100	
TOTAL				2	2	-	100	100		
IV	20U4LT4/LA4/LF4/LH4/LU4	I	Language – IV		30	21			800	
	20UCN4E4	II	English – IV		6	3	25	75	100	
	20UBO4C7	III	Core – VII	Microbiology and Plant Pathology	6	3	25	75	100	
	20UBO4C8P		Core – VIII	Laboratory Course for Core – VII	5	5	25	75	100	
	20UZO4A7		Allied – VII	Commercial Zoology	3	2	25	75	100	
	20UZO4A8P		Allied – VIII	Commercial Zoology - Practical	5	3	25	75	100	
	20UBO4N2	IV	Non-Major Elective – II	Nursery and Gardening	3	2	25	75	100	
	20UCN4EA	V	Extension Activities	NCC, NSS, etc.	2	2	-	100	100	
TOTAL				-	1	-	-	-		
V	20UBO5C9	III	Core – IX	Plant Systematics and Economic Botany	30	21			700	
	20UBO5C10		Core – X	Plant Physiology	6	5	25	75	100	
	20UBO5C11		Core – XI	Biochemistry and Biophysics	5	5	25	75	100	
	20UBO5C12P		Core – XII	Laboratory Course for Core – IX, X and XI	5	5	25	75	100	
	20UBO5M1*		Major Based Elective – I	Biostatistics and Bioinformatics (or) Enzyme Technology	5	5	25	75	100	
	20UBO5S2**	IV	Skill Based Elective – II	Algal Cultivation (or) Food Microbiology	5	4	25	75	100	
	20UBO5S3**		Skill Based Elective – III	Greenhouse Technology (or) Remote sensing	2	2	-	100	100	
	20UBO5EC1		Extra Credit Course – I	Medicinal Botany	2	2	-	100	100	
TOTAL				-	4*	--	100*	100*		
VI	20UBO6C13	III	Core – XIII	Plant Ecology and Phytogeography	30	28			700	
	20UBO6C14		Core – XIV	Plant Molecular Biology and Biotechnology	5	5	25	75	100	
	20UBO6C15		Core – XV	Biological Techniques	5	5	25	75	100	
	20UBO6C16P		Core – XVI	Laboratory Course for Core XIII, XIV and XV	5	5	25	75	100	
	20UBO6M2*		Major Based Elective – II	Industrial Botany (or) Seed Science Technology	5	5	25	75	100	
	20UBO6M3*		Major Based Elective – III	Horticulture and Plant Breeding (or) Silviculture	5	4	25	75	100	
	20UCN6GS	V	Gender Studies	Gender Studies	4	4	25	75	100	
	20UBO6EC2		Extra Credit Course – II	Wood Science and Technology	1	1	-	100	100	
TOTAL				-	4*	--	100*	100*		
GRAND TOTAL					30	29	-	-	700	
					180	140	-	-	4300	

* Not Considered for Grant Total and CGPA.

Any Core papers can be converted to a Practical paper (if need be) and the Subject Code has to be changed as 20P**1CP or 20U**1AP (Example).

M. Sathya

M. Sathya

S. Sathya
(A.A.A.R.)

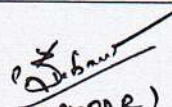
Appendix - I (02/2019-20/dt. 31-08-19)

#Major Based Elective Courses:				** Skill Based Elective	
Subject Code	Semester V	Subject Code	Semester VI	Subject Code	Semester V
20UBO5M1	Biostatistics and Bioinformatics	20UBO6M2	Industrial Botany	20UBO5S2	Algal Cultivation
20UBO5M1	Enzyme Technology	20UBO6M2	Seed Science and Technology	20UBO5S2	Food Microbiology
--	--	20UBO6M3	Horticulture and Plant Breeding	20UBO5S3	Greenhouse Technology
--	--	20UBO6M3	Silviculture	20UBO5S3	Remote Sensing

Allied Course			
Subject Code	Semester III	Subject Code	Semester IV
20UBO3A5	Applied Botany I	20UBO4A7	Applied Botany II
20UBO3A6P	Laboratory Course for Applied Botany I	20UBO4A8P	Laboratory Course for Applied Botany II


S. Suresh

M. Sathya
M. Sathya


(A AND R)

Appendix - I (02/2019-20/dt. 31-08-19)

JAMAL MOHAMED COLLEGE (Autonomous), Tiruchirappalli-620 020

PG Programme –Course Structure under CBCS

(For the candidate admitted from the academic year 2020-2021 onwards)

SEM	Course Code	Course	Course Title	Ins. Hrs / Week	Credit	Exam Hrs	Marks		Total
							CIA	ESE	
I	20PBO1C1	Core Course – I (CC)	Plant Diversity I (Thallophytes and Bryophytes)	6	5	3	25	75	100
	20PBO1C2	Core Course – II (CC)	Plant Diversity II (Pteridophytes, Gymnosperms and Paleobotany)	6	5	3	25	75	100
	20PBO1C3	Core Course – III (CC)	Microbiology, Plant Pathology and Immunology)	6	4	3	25	75	100
	20PBO1C4P	Core Course – IV (CC)	Laboratory Course for Core – I, II and III	6	4	3	25	75	100
	20PBO1CE1	Elective Course – I (EC)	Applied Marine Botany (or) Agricultural Microbiology	6	4	3	25	75	100
	TOTAL			30	22				500
II	20PBO2C5	Core Course – V (CC)	Cell and Molecular Biology	6	5	3	25	75	100
	20PBO2C6	Core Course – VI (CC)	Anatomy and Embryology of Angiosperms	6	5	3	25	75	100
	20PBO2C7	Core Course – VII (CC)	Genetics and Plant Breeding	6	4	3	25	75	100
	20PBO2C8P	Core Course – VIII (CC)	Laboratory Course for Core V, VI and VII	6	4	3	25	75	100
	20PBO2CE2	Elective Course – II (EC)	Floriculture (or) Horticulture and Greenhouse Technology	6	4	3	25	75	100
	TOTAL			30	22				500
III	20PBO3C9	Core Course – IX (CC)	Plant Systematics and Ethnobotany	6	5	3	25	75	100
	20PBO3C10	Core Course – X (CC)	Plant Physiology	6	5	3	25	75	100
	20PBO3C11	Core Course – XI (CC)	Biomolecules, Bioenergetics and analytical instrumentation	6	4	3	25	75	100
	20PBO3C12P	Core Course – XII (CC)	Laboratory Course for Core IX, X and XI	6	4	3	25	75	100
	20PBO3CE3	Elective Course – III (EC)	Biostatistics and Bioinformatics (or) Biodiversity and Conservation	6	4	3	25	75	100
	20PBO3EC1	Extra Credit Course – I	Organic Farming	-	5*	3	-	100	100*
	TOTAL			30	22				500
IV	20PBO4C13	Core Course – XIII (CC)	Plant Ecology and Conservation Biology	6	5	3	25	75	100
	20PBO4C14	Core Course – XIV (CC)	Plant Biotechnology	6	5	3	25	75	100
	20PBO4C15P	Core Course – XV (CC)	Laboratory Course for Core XIII and XIV	6	5	3	25	75	100
	20PBO3CE4	Elective Course – IV (EC)	Plant Tissue Culture (or) Marine Ecology	6	4	3	25	75	100
	20PBO4PW	Project	Dissertation Work	6	4	-	-	100	100
	20PBO4EC2	Extra Credit Course – II	Botanical Pharmacy	-	5*	3	-	100	100*
	20PCNOC	Online Course		-	1	-	-	-	-
TOTAL				30	24				500
GRAND TOTAL					90				2000

S. Perumal

M. Sathya
M. Sathiyabama

P. S. Sathya
(C.A.D.H.R.)

Appendix - I (02/2019-20/dt.31.8.19)

Core Based Electives:

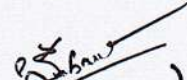
Subject Code	Semester I
20PBO1CE1	Applied Marine Botany
(OR)	
20PBO1CE1	Agricultural Microbiology
Subject Code	Semester II
20PBO2CE2	Floriculture
(OR)	
20PBO2CE2	Horticulture and Greenhouse Technology
Subject code	Semester III
20PBO3CE3	Biostatistics and Bioinformatics
(OR)	
20PBO3CE3	Biodiversity and Conservation
Subject Code	Semester IV
20PBO3CE4	Plant Tissue Culture
(OR)	
20PBO3CE4	Marine Ecology

*Not considered for grand total and CGPA

The above structure may be used to the departments of Arabic, Botany, Chemistry, Commerce, Economics, English, History, Mathematics, Physics, Tamil and Zoology


S. Srinivasan

M. Sathya
M. Sathyaabama


(A. Akshay)

Master of Philosophy Programme (M.Phil.)

SEM	SUB CODE	COURSE	SUBJECT TITLE	HRS / WEEK	CREDIT	CIA Mark	ESE MARK	TOTAL MARK
I	20MPBO1C1	CORE - I	Research Methodology	4*	4	25	75	100
	20MPBO1C2	CORE - II	Broad Areas of Research	4*	4	25	75	100
	20MPBO1C3	CORE - III	Teaching & Learning Skills (Common Paper)	4*	4	25	75	100
	20MPBO1C4	CORE - IV (Elective)	Paper on Topic of Research (The syllabus will be prepared by the guide and examination will be conducted by the COE)	4*	4	25	75	100
	*One-hour library for each course							
TOTAL				16*	16	100	300	400
II	20MPBO2PD		Dissertation##	-	8	-	-	200
GRAND TOTAL				-	24	-	-	600

Evaluation of the Dissertation and Viva Voce shall be made jointly by the Research Supervisor and the External Examiner.

See notes

M. Sathya
M. Sathyaabama

P. Subash
(M.A. & D.D.)

MEETING MINUTE BOOK

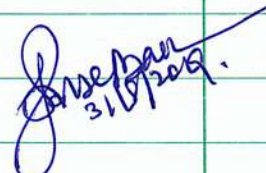
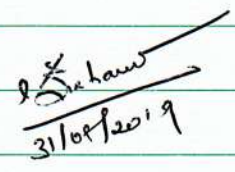
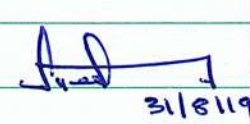
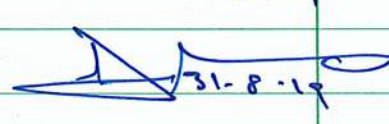
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सभेचे मिनिट बुक

MEETING NO. / सभा नं 02/2019-20

DATE / तारीख 31-08-2019

Anupam

TION नं	PRESENT MEMBERS AND RESOLUTIONS हजर सभासद व ठराव	REMARKS शेरा
	<u>MEMBERS PRESENT</u>	<u>SIGNATURE</u>
①	Dr. M. Ghouse Basha chairman	 31/08/2019
②	Dr. S. Murugesh Subject Expert - Academic council nominee	
③	Dr. M. Sathiyabama Vice Chancellor Nominee, University Representative	M. Sathiyabama
④	Dr. A. Akbar Alumni Representative	 31/08/2019
⑤	Dr. H. Syed Jahangir, Member	 31/8/19
⑥	Dr. A. Shajahan, ..	 31-8-19
⑦	Dr. M. Kamaraj ..	M. I. I. I.
⑧	Dr. R. Ravikumar ..	
⑨	Dr. A. Aslam ..	A. Aslam
⑩	Dr. K. Mohamed Rafi ..	U. M. I. I.

ANNUAL / SPECIAL GENERAL

वार्षिक / विशेष सर्वसाधारण

CODE : CSA 008

MEETING NO. / सभा नं 04/2019-20

DATE / तारीख 07-03-2020

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RESOLUTION NO. ठराव नं	PRESENT MEMBERS AND RESOLUTIONS हजर सभासद व ठराव	REMARKS शेरा
	The external Board of studies for the U.G., P.G., and M.Phil Botany for the preparation and approval of new course content to be implemented from 2020-21 (onwards) was held on 07-03-2020 at 10:45 AM in the P.G. and Research Department of Botany under the Chairmanship of Dr. M. Ghouse Basha, Head of the Department.	
	<u>AGENDA</u>	
	① To finalise the course content for U.G., P.G., and M.Phil, including value added courses to be implemented for I. B.Sc., I. M.Sc. and M.Phil Botany students from 2020-21 (onwards)	
	② To finalise practical papers proposed for DBT-STAR College scheme to be implemented from the academic year 2020-21 (onwards)	
	③ Any other matters.	
	<u>RESOLUTIONS</u>	
	① Resolved to approve the course content and course outcomes for the U.G., P.G., and MPhil. Botany to be implemented for I. B.Sc. Botany, I. M.Sc. Botany, M.Phil. Botany and Value added Courses from 2020-21 (onwards) with following minor changes (vide Appendix I)	
Sub: code: 20PBO1C3	<u>changes / corrections.</u> "bacterial viruses" shall be changed to "bacterial and plant viruses"	

MEETING MINUTE BOOK

सभेचे मिनिट बुक

13

MEETING NO. / सभा नं 04/2019-20

DATE / तारीख 07-03-2020

Anupam

RESOLUTION NO. ठराव नं	PRESENT MEMBERS AND RESOLUTIONS हजर सभासद व ठराव	REMARKS शेरा
<u>Sub. code:</u>	<u>changes / corrections:</u>	
20PBO1CE1B	* The term "bioinoculants" can be used instead of "biofertilizers"	
	* The phrase "microorganisms aiding plant phosphorous nutrition" can be used.	
	* "Arbuscular mycorrhiza" can be used instead of "vesicular Arbuscular mycorrhiza"	
20PBO2CE2A	* The term "bioinoculants" can be used in place of "biofertilizer"	
	* "Greenhouse structure and management" can be included in unit II.	
	* Ornamental plants can be shifted to the paper Horticulture and Green house technology.	
20PBO2C5	* "DNA Damage" can be included before "repair"	
20UBOVAC1	* Course title can be changed as "commercial bioinoculants"	
	* The term "bioinoculants" can be used in place of "biofertilizer"	
20MPBDIC3	* The unit III shall be made as unit IV and vice versa	
20UBOVAC2	Resolved to approve the course content as presented	
	② Resolved to approve the practical papers as per the proposal submitted to DBT under DBT-STAR college scheme. as per vide Appendix II	
	③ Resolved to approve the list of External examiners for U.G. and P.G. courses as per Vide Appendix III.	

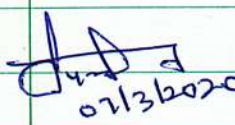
ANNUAL / SPECIAL GENERAL

वार्षिक / विशेष सर्वसाधारण

CQDE : CSA 008

MEETING NO. / सभा नं 04/2019-20

DATE / तारीख 07-03-2020

RESOLUTION NO. ठराव नं	PRESENT MEMBERS AND RESOLUTIONS हजर सभासद व ठराव	REMARKS शेरा
	<u>MEMBERS PRESENT</u>	<u>SIGNATURE</u>
①	Dr. M. Ghouse Basha, chairman	
②	Dr. T. Muthukumar, Vice-Chancellor Nominee	
③	Dr. A. Lakshmi Prabha Subject Expert, Academic Council Nominee	
④	Dr. E. Mohan Subject Expert, Academic Council Nominee	
⑤	Dr. Amzad Basha Kolar Alumni Representative.	
⑥	Mr. P. Suresh Kumar Corporate/Industrial Representative.	
⑦	Dr. H. Syed Jahangir, Member	
⑧	Dr. A. Shajahan, "	
⑨	Dr. M. Kamaraj "	
⑩	Dr. R. Ravikumar, "	
⑪	Dr. A. Aslam, "	
⑫	Dr. K. Mohamed Rafi "	

Амур

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Appendix - I

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M.Phil., Botany

SEM	COURSE CODE	COURSE	COURSE TITLE	HOURS / WEEK	CREDIT	CIA Mark	ESE MARK	TOTAL MARK
I	20MPBO1CC1	Core – I	Research Methodology	4*	4	25	75	100
	20MPBO1CC2	Core – II	Recent Advances in Plant Science	4*	4	25	75	100
	20MPBO1CC3	Core – III	Teaching And Learning Skills	4*	4	25	75	100
	20MPBO1CC4	Core – IV (Elective)	Paper on Topic of Research (The syllabus will be prepared by the guide and examination will be conducted by the COE)	4*	4	25	75	100
	*One-hour library for each course							
TOTAL				16*	16	-	-	400
II	20MPBO2PD		Dissertation##	-	8	-	-	200
GRAND TOTAL				-	24	-	-	600

##Evaluation of the Dissertation and Viva Voce shall be made jointly by the Research Supervisor and the External Examiner.

 7/3/20

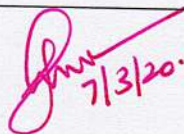
M.Sc. Botany

SEM	Course Code	Course	Course Title	Ins. Hrs / Week	Credit	Exam Hrs	Marks		Total
							CIA	ESE	
I	20PBO1CC1	Core – I	Plant Diversity I (Thallophytes and Bryophytes)	6	5	3	25	75	100
	20PBO1CC2	Core – II	Plant Diversity II (Pteridophytes, Gymnosperms and Paleobotany)	6	5	3	25	75	100
	20PBO1CC3	Core – III	Microbiology, Plant Pathology and Immunology	6	4	3	25	75	100
	20PBO1CC4P	Core – IV	Laboratory course for core I, II and III – Practical	6	4	3	20	80	100
	20PBO1DE1A/B	DSE – I#		6	4	3	25	75	100
		TOTAL		30	22	-	-	-	500
II	20PBO2CC5	Core – V	Cell and Molecular Biology	6	5	3	25	75	100
	20PBO2CC6	Core – VI	Anatomy, Embryology and Forensic Botany	6	5	3	25	75	100
	20PBO2CC7	Core – VII	Genetics and Plant Breeding	6	4	3	25	75	100
	20PBO2CC8P	Core – VIII	Laboratory course for core V, VI and VII – Practical	6	4	3	20	80	100
	20PBO2DE2A/B	DSE – II#		6	4	3	25	75	100
		TOTAL		30	22	-	-	-	500
III	20PBO3CC9	Core – IX	Plant Systematics and Ethnobotany	6	5	3	25	75	100
	20PBO3CC10	Core – X	Plant Physiology	6	5	3	25	75	100
	20PBO3CC11	Core – XI	Biomolecules, Bioenergetics and Analytical Instrumentation	6	4	3	25	75	100
	20PBO3CC12P	Core – XII	Laboratory course for core IX, X and XI – Practical	6	4	3	20	80	100
	20PBO3DE3A/B	DSE – III#		6	4	3	25	75	100
	20PBO3EC1	Extra Credit Course – I	Online Course (MOOC)	-	1*	-	-	-	-
		TOTAL		30	22	-	-	-	500
IV	20PBO4CC13	Core – XIII	Plant Ecology and Conservation Biology	6	5	3	25	75	100
	20PBO4CC14	Core – XIV	Plant Biotechnology	6	5	3	25	75	100
	20PBO4CC15P	Core – XV	Laboratory Course for Core XIII and XIV – Practical	6	5	3	20	80	100
	20PBO3DE4A/B	DSE – IV#		6	4	3	25	75	100
	20PBO4PW	Project	Dissertation Work	6	4	-	-	100	100
	20PCNOC	Online Course (Compulsory)		-	1	-	-	-	-
	20PBO4EC2	Extra Credit Course – II	Botany for Career Examination	-	5*	3	-	100	100*
		TOTAL		30	24	-	-	-	500
GRAND TOTAL				-	90	-	-	-	2000

*Not considered for grand total and CGPA

#Discipline Specific Elective

SEM	Course Code	Course Title
I	20PBO1DE1 A/B	A. Applied Marine Botany (or) B. Agricultural Microbiology
II	20PBO2DE2 A/B	A. Floriculture for Entrepreneurship and Export (or) B. Horticulture and Greenhouse Technology
III	20PBO3DE3 A/B	A. Biostatistics and Bioinformatics (or) B. Biodiversity and Conservation
IV	20PBO4DE4 A/B	A. Plant Tissue Culture and Secondary Metabolites Production (or) B. Marine Ecology


7/3/20.

B.Sc. Botany

SEM	COURSE CODE	PART	COURSE	COURSE TITLE	Hrs /Week	CREDIT	MARKS		TOTAL
							CIA	ESE	
I	20U1LT1/LA1/LF1/LH1/LU1	I	Language – I						
	20UCN1LE1	II	English – I		6	3	25	75	100
	20UBO1CC1	III	Core – I	Plant Diversity (Algae, Fungi and Archegoniate)	6	3	25	75	100
	20UBO1CC2P		Core – II	Laboratory course for core I - Practical	5	5	25	75	100
	20UCH1AC1: 2		Allied – I	Inorganic, Organic and Physical Chemistry – I	3	2	20	80	100
	20UCH1AC2P		Allied – II	Volumetric Estimations – Practical I	5	4	25	75	100
	20UCN1AE1	IV	AEC – I	Value Education	3	2	20	80	100
TOTAL					2	2	100	-	100
II	20U2LT2/LA2/LF2/LH2/LU2	I	Language – II		30	21	-	-	700
	20UCN2LE2	II	English – II		6	3	25	75	100
	20UBO2CC3	III	Core – III		6	3	25	75	100
	20UBO2CC4P		Core – IV	Plant Anatomy and Embryology	6	5	25	75	100
	20UCH2AC3: 2		Allied – III	Laboratory course for core III - Practical	3	2	20	80	100
	20UCH2AC4P		Allied – IV	Inorganic, Organic and Physical Chemistry – II	4	3	25	75	100
	20UCN2SE1	IV	Skill Enhancement Course – I@	Organic Analysis – Practical II	3	2	20	80	100
TOTAL					2	2	100	-	100
III	20U3LT3/LA3/LF3/LH3/LU3	I	Language– III		30	20	-	-	700
	20UCN3LE3	II	English – III		6	3	25	75	100
	20UBO3CC5	III	Core – V		6	3	25	75	100
	20UBO3CC6P		Core – VI	Cytology and Genetics	4	4	25	75	100
	20UZO3AC5		Allied – V	Laboratory course for core V – Practical	3	2	20	80	100
	20UZO3AC6P		Allied – VI	General Principles in Zoology	4	3	25	75	100
	20UBO3GE1	IV	Generic Elective – I#	Practical – General Principles in Zoology	3	2	20	80	100
20UCN3AE2	AEC – II		Environmental Studies	2	2	-	100	100	
TOTAL					2	2	100	-	100
IV	20U4LT4/LA4/LF4/LH4/LU4	I	Language – IV		30	21	-	-	800
	20UCN4LE4	II	English – IV		6	3	25	75	100
	20UBO4CC7	III	Core – VII		6	3	25	75	100
	20UBO4CC8P		Core – VIII	Microbiology and Plant Pathology	5	5	25	75	100
	20UZO4AC7		Allied – VII	Laboratory course for core VII – Practical	3	2	20	80	100
	20UZO4AC8P		Allied – VIII	Commercial Zoology	5	3	25	75	100
	20UBO4GE2	IV	Generic Elective – II#	Practical – Commercial Zoology	3	2	20	80	100
20UCN4EA	V	Extension Activities	NCC, NSS, etc.	2	2	-	100	100	
TOTAL					-	1	-	-	-
V	20UBO5CC9	III	Core – IX	Plant Systematics and Economic Botany	30	21	-	-	700
	20UBO5CC10		Core – X	Plant Physiology	6	5	25	75	100
	20UBO5CC11		Core – XI	Biochemistry and Biophysics	5	5	25	75	100
	20UBO5CC12P		Core – XII	Laboratory course for core IX, X and XI - Practical	5	5	25	75	100
	20UBO5DE1 A/B	IV	DSE – I**		5	5	20	80	100
	20UBO5SE2 A/B		Skill Enhancement Course – II@		5	4	25	75	100
	20UBO5SE3 A/B		Skill Enhancement Course – III@		2	2	-	100	100
20UBO5EC1		Extra Credit Course – I	General Intelligence for Competitive Examinations	2	2	-	100	100	
TOTAL					-	4*	-	100*	100*
VI	20UBO6CC13	III	Core – XIII	Plant Ecology and Phytogeography	30	28	-	-	700
	20UBO6CC14		Core – XIV	Plant Molecular Biology and Biotechnology	5	5	25	75	100
	20UBO6CC15		Core – XV	Biological Techniques	5	5	25	75	100
	20UBO6CC16P		Core – XVI	Laboratory course for core XIII, XIV and XV - Practical	5	5	25	75	100
	20UBO6DE2 A/B	IV	DSE – II**		5	4	25	75	100
	20UBO6DE3 A/B		DSE – III**		4	4	25	75	100
	20UCN6AE3		AEC – III	Gender Studies	1	1	100	-	100
20UBO6EC2		Extra Credit Course – II	Botany for Competitive Examinations	-	4*	-	100*	100*	
20UBOAECA		Extra Credit Course for all	Online Course	-	1*	-	-	-	
TOTAL					30	29	-	-	700
GRAND TOTAL					180	140	-	-	4300

* Not Considered for Grand Total and CGPA.

Appendix - I

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#Generic Electives

SEM	Course Code	Part	Course Title
III	20UBO3GE1	IV	Edible Mushroom Cultivation and Commercialization
IV	20UBO4GE2	IV	Nursery, Gardening for Entrepreneurship

@ Skill Enhancement Course

SEM	Course Code	Part	Course Title
V	20UBO5SE2A	IV	Algal Cultivation Techniques for Entrepreneurship
	20UBO5SE2B		Food Microbiology
V	20UBO5SE3A	IV	Greenhouse Technology
	20UBO5SE3B		Remote sensing

**Discipline Specific Elective

SEM	Course Code	Course Title
V	20UBO5DE1A	Biostatistics and Bioinformatics
	20UBO5DE1B	Enzyme Technology
VI	20UBO6DE2A	Industrial Botany
	20UBO6DE2B	Seed Technology
VI	20UBO6DE3A	Horticulture and Plant Breeding
	20UBO6DE3B	Silviculture

Allied Courses

SEM	Course Code	Part	Course	Course Title
III	20UBO3AC5	III	Allied - V	Applied Botany - I
	20UBO3AC6P		Allied - VI	Laboratory Course for Applied Botany I - Practical
IV	20UBO4AC7		Allied - VII	Applied Botany - II
	20UBO4AC8P		Allied - VIII	Laboratory Course for Applied Botany II - Practical

Value added Certificate Courses

SEM	Course Code	Course	Course Title
III	20UBOVAC1	Value Added Course - I	Bioinoculants for Commercialization
V	20UBOVAC2	Value Added Course - II	Forensic Botany

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21/3/20