1.3.1.	List and description		nd S		ability	y, Hui	nan V	/alues, Professional Ethics and Indian Knowledge System into
S. No	Course Code	Name of the Course	Ge	EVS	HV	PE	IKS	Outcome
		20	023-2	2024				1
1	BU23ICCI	Core Course I : Plant Diversity - I Algae						To develop a deep comprehension of the diversity, biology, and ecological roles of major algae, fungi, and lichens for ecological and applied knowledge.
2	BU231CP1	Core Lab Course I : Plant Diversity - I Algae						To develop a practical understanding of the diversity, morphology, and ecological significance of algae, fungi, and lichens.
3	BU231EC1	Elective Course I : Allied Botany I						To provide a foundational understanding and identification of the algae.
4	BU231EP1	Elective Lab Course I : Allied Botany Practical						To cultivate expertise in gardening and floriculture techniques for creating and managing aesthetically pleasing and sustainable green spaces.
5	BU231NM1	Non-Major Elective NME : Nursery and Landscaping						To understand the basic concepts of nursery and gardening techniques.
6	BU231FC1	Foundation Course: Basics of Botany						To equip students with the knowledge and skills to harness biofertilizers, biofuels, and biopesticides for sustainable and eco friendly agricultural and environmental practices.
7	BU232CC1	Core Course II : Plant Diversity I I- Fungi, Bacteria, Viruses, Plant Pathology and Lichens		\bigtriangledown				To understand microbes, fungi and lichens and appreciate its agricultural and pharmaceutical applications.
8	BU232CP1	Core Lab Course II : Plant Diversity II- Fungi, Bacteria, Viruses, Plant Pathology and Lichens – Practical -II						To develop practical skills for culturing and cultivation of fungi.
9	BU232EC1	Elective Course II : Allied Botany -II						To understand the fundamental concepts of plant anatomy and embryology.
10	BU232EP1	Elective Lab Course II : Allied Botany Practical						To study the classical taxonomy with reference to different parameters and fundamental concepts of plant anatomy and embryology.
11	BU232NM1	Non Major Elective NME II : Mushroom Cultivation						To explain about various types of food technologies associated with mushroom industry.
12	BU232SE1	Skill Enhancement Course SEC I : Botanical Garden and Landscaping						To inculcate entrepreneurial skills in students for creative landscaping design using CAD software.
13	BC2031	Major Core III - Archegoniate		\bigtriangledown				To enrich with basics of Botany.
14	BC2032	Major Elective -I (a) Herbal Botany						To develop basic knowledge about medicinal importance of plants.
15	BC2033	Major Elective - I (b) Nursery and Gardening				\bigtriangledown		To develop skills to become employable as professionals in traditional medicinal system.
16	BC2034	Major Elective - I (c) Agricultural Botany				\bigtriangledown		To understand making and maintenance of gardening and lawn
17	BA2031	Allied II - Theory : Plant Diversity - I (Algae, Fungi, Bryophyta and Pteridophyta)						To understand agricultural practices, seed technology; cropping scheme and soil fertility.
18	BC20S1	Self Learning Course : Plant Resource Utilization		$\mathbf{\nabla}$		$\mathbf{\nabla}$		To study the importance of plant resources.
19	BC2041	Major Core IV - Plant Ecology and Phytogeography		\bigtriangledown				To learn the basic knowledge soil, water, vegetation and ecological groups.
20	BC2042	Major Elective - II (a) Biological Resources						To understand the cultivation and production of biofertilizers, microbial fertilizers, biofertilizers and biopesticides.
21	BC2043	Elective - II (b) Food Science				\bigtriangledown		To learn about the importance, constituents and health practices of food and balanced diet.
22	BC2044	Elective – II (c) Biodiversity and Human Welfare		Ø		Ø		To learn about the inportance of biodiversity and aware to conserve the biodiversity.
23	BA2041	Allied II - Theory : Plant Diversity - II (Gymnosperms, Angiosperms and Plant Phsiology)		\bigtriangledown				To understand the structure and functiond of basic organelles of plant cells and internal structure of plant parts.
24	BC20P2	Major Practical Paper - II Archegoniate & Plant Ecology and Phytogeography		\bigtriangledown				To learn the sectioning for microscopic observation.
25	BA20P2	Allied II - Practical : Plant Diversity I & II and Plant Physiology						To learn about physiology experimental set up.
26	BC20S2	Self Learning Course : Algal Biotechnology				\bigtriangledown		To learn about the importance of algal diversity and aware to conserve the marine ecosystem.
27	BC2051	Major Core V -Taxonomy of Angiosperms and Economic Botany						To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
28	BC2052	Major Core VI - Biochemistry and Biophysics						To learn the emerging field of biophysics and principles of bioenergetics.
29	BC2053	Major Core VII - Microbiology and Plant Pathology						To provide the students with the comprehensive understanding and appreciation for the diversity and significance of microbes on planet earth.
30	BC2061	Major Core VIII - Genetics, Biostatistics and Bioinformatics						To generate biological interpretations and conclusions from data of scientific research.
31	BC2062	Major Core IX - Biotechnology and Molecular Biology				\bigtriangledown		To develop skills to become employable as professionals in Biotechnology Industries.
32	BC2063	Major Core X - Plant Physiology and Metabolism		\bigtriangledown				To comprehend the fundamental concepts of plant physiology.

22	DC2064		1		1	1	T	
33	BC2064	Major - Elective IV (a) Marine Botany					+	To understand the diversity of marine organisms.
34	BC2065	Major - Elective IV (b) Organic Farming		\bigtriangledown	1			To empower the employment opportunity of youth at village
								level in organic market as organic growers, stakeholders, and
								entrepreneurs.
35	BC2066	Major- Elective IV (c) Ecotourism		$\mathbf{\nabla}$			<u> </u>	To highlight the need for sustainable tourism.
36	BC20P3	Major Practical III - Taxonomy and Economic Botany &		\bigtriangledown				To understand and identify the locally available common plants
		Biochemistry and Biophysics						and performing experiments in Biochemistry.
37	BC20P4	Major Practical IV - Genetics, Biostatistics and		N				To interpret experimental data using biostatistics.
		Bioinformatics & Biotechnology and Molecular Biology						
38	BC20P5	Major Practical V - Microbiology and Plant Pathology &		\bigtriangledown			1	To demonstrate and interpret the results to microbiology and
		Plant Physiology and Metabolism		0				physiology experiments.
39	SEC203	Skill Enhancement Course (SEC) - Global Environmental		\square			-	To acquire the knowledge, values, attitudes, commitment, and
39	SEC205	× ,		Ľ				1 0 0 0 0 0
40	D D D D D D D D D D D D D D D D D D D	Issues	_	0				skills needed to protect and improve the environment.
40	BP231CC1	Core Course I : Plant Diversity - I Algae, Fungi, Lichens		\bigtriangledown				To gain adequate knowledge on the lower group flora.
		& Bryophytes						
41	BP231CC2	Core Course II : Plant Diversity - II Pteridophyta,		\bigtriangledown				To get a brief knowledge of plant breeding techniques.
		Gymnosperms and Palaeobotany						
42	BP231EC1	Elective Course I : a)Microbiology, Immunology and		Ø				To understand the microbial world.
		Plant Pathology		_				
43	BP231EC2	Elective Course I : b)Conservation of natural resources		\bigtriangledown		\bigtriangledown	1	To understand the marine environs and their conservation
73	DI 251LC2	and policies		Ċ		Ċ		strategies.
4.4	DD21EC2						+	
44	BP231EC3	Elective Course I : c)Mushroom cultivation		\bigtriangledown		\bigtriangledown	<u> </u>	To understand basic concepts of organic farming.
45	BP231EC4	Elective Course II : a) Ethanobotany, Naturopathy and		1	1	1	$\mathbf{\nabla}$	To understand the resaerch and its methodologies.
		Traditional Health care			<u> </u>		<u> </u>	
46	BP231EC5	Elective Course II : b) Algal Technology		$\overline{\mathbf{v}}$				To understand the evolutionary tendency of Thallophytes.
47	BP231EC6	Elective Course II : c)Herbal Technology		$\overline{\square}$		\bigtriangledown	\bigtriangledown	To understand the basic concepts of cell and cell functions.
48	BP231CP1	Core Lab Course I: Laboratory Course - I : Covering Core		$\overline{\square}$			<u> </u>	To have detailed study on primitive organisms.
		Papers - I & II			1	1		in primare organisms.
40	DD222CC1							The second size of the second se
49	BP232CC1	Core Course III : Taxonomy of Angiosperms and		\square	1	1	\bigtriangledown	To explain the principle, hierarchy and nomenclature in plant
		Economic Botany	-				—	taxonomy.
50	BP232CC2	Core Course IV: Plant Anatomy and Embryology of		\bigtriangledown				To understand the various concepts of plant development and
		Angiosperms						reproduction.
51	BP232CC3	Core Course V: Ecology, Phytogeography, Conservation		Q				To analyze insight into the vegetation types, species interaction
		Biology and Intellectual Property Rights		_				and their importance and the factors influencing the
								environmental conditions.
52	BP232CP1	Core Lab Course II : Lab Course (for Core III, IV& V)		\bigtriangledown			1	To understand the recent advances in plant morphological and
52	DI 252CI 1	Core Lab Course II . Lab Course (for Core III, 1V& V)		Ľ				
			_	0	-			floral characteristics.
53	BP232EC1	Elective Course III : a) Biostatistics		$\mathbf{\nabla}$				To develop their competence in hypothesis testing and
								interpretation.
54	BP232EC2	Elective Course III: b) Intellectual Property Rights				\square		To understand the differences of Property and Assets and
								various categories of Intellectual Creativity.
55	BP232EC3	Elective Course III : c) Applied bioinformatics					1	To apply and explain the application of bioinformatic tools.
56	BP232EC4	Elective Course IV : a) Research methodology, compute	r	Ø			1	To understand the concept of pairwise alignment of DNA
50	DI 252LC4	applications & bioinformatics		Ċ				sequences using algorithms.
67	DD222EQ5		_	0				
57	BP232EC5	Elective Course IV : b) Medicinal Botany		\bigtriangledown			${\bf \bigtriangledown}$	To develop new strategies to enhance growth and quality check
								of medicinal herbs considering the practical issues pertinent to
								India.
58	BP232EC6	Elective Course IV : c) Phytochemistry		\square			\bigtriangledown	To know the methods of screening of secondary metabolites for
								various biological properties.
59	BP232SE1	Skill Enhancement Course I : Nursery and Gardening		\bigtriangledown			1	To develop gardening and nursery development skills.
60	PB2031	Core VII - Taxonomy of Angiosperms		Ň	1	1	1	To get knowledge of modern trends in taxonomy of
00	1 0 2 0 3 1	core . If Tuxonomy of Angiosporms		ت	1	1		8 8
(1	DD2022	Construction of Mathematical Dist	+		<u> </u>		+	Angiosperms.
61	PB2032	Core VIII – Genetics and Molecular Biology	-	Ø	<u> </u>	<u> </u>	┿	To aquire knowledge in laboratory techniques.
62	PB2033	Elective III – (a) Horticulture	-	$\overline{\mathbf{v}}$			—	To study the horticultural techniques.
63	PB2034	Elective III – (b) Forestry	_	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	1	<u> </u>	<u> </u>	To learn the forest management strategies.
64	PB20S1	Self Learning Course - Biology for competitive exam - I	1	\bigtriangledown	1	1		To get exposure to write competitive exams.
_						L	L	
65	PB2041	Core IX - Plant Physiology						To get knowledge about plant physiological aspects.
66	PB2042	Core X – Plant Ecology and Phytogeography	1	Ø	1	1	1	To get idea about the enviroment.
67	PB2043	Core XI – Biotechnology & Bioinformatics	1	Ø	1	\bigtriangledown	1	To understand the bioinformatics tool in the field of Biology.
						Ű	┼──	
68	PB2044	Elective IV – (a) Phytochemistry and Pharmacognosy	-	\Box			┼──	To understand the basic procedures in phytochemical analysis.
69	PB20P3	Practical III - Taxonomy of Angiosperms & Genetics and		\bigtriangledown	1	1		To learn about the taxonomical terminology, morphology,
		Molecular Biology.					\square	structure and functions of various parts of plants.
70	PB20P4	Practical IV - Plant Physiology, Plant Ecology &		\bigtriangledown	1	1		To understand the methodology involved in environment and
		Phytogeography and Biotechnology & Bioinformatics			1	1		conservation biology.
71	PB20S2	Self Learning Course - Biology for competitive exam - II	1	\bigtriangledown			Τ	To understand the basic concepts of competitive exam in
		C 07	1		1	1		biology.
			-		•		-	
		2	2022-2	2023				
70	DCOOLI	Malan Come I. Alan P. C. 1973	T				T	The development of the data set of the set
72	BC2011	Major Core I - Algae, Fungi and Lichens	1	${\bf \bigtriangledown}$	\bowtie	1		To develop a deep comprehension of the diversity, biology, and
			1	1	1	1		ecological roles of major algae, fungi, and lichens for ecological
					L			and applied knowledge.
	BA2011	Allied I - Chemistry¬ of Life		\bigtriangledown	\bigtriangledown			To provide a foundational understanding of the fundamental
73	-				<u> </u>	1		chemical principles underlying biological systems and their
73			1	1	1	1		applications.
73					1	1	1	
	D10/00/			Ċ,	C			
73 74	BNM201	Non Major Elective NME I - Gardening and Floriculture		\square	\bigtriangledown			To cultivate expertise in gardening and floriculture techniques
	BNM201	Non Major Elective NME I - Gardening and Floriculture (NMEC)			\bigtriangledown			To cultivate expertise in gardening and floriculture techniques for creating and managing aesthetically pleasing and sustainabl

75	BC2021	Major Core II - Plant Anatomy and Developmental Botany				To foster a comprehensive understanding of plant anatomy and developmental processes to elucidate plant growth and structure.
76	BC20P1	Practical I -Algae, Fungi ,Lichens and Plant Anatomy and Developmental Botany				To develop hands-on expertise in observing and analyzing plant tissues and structures to comprehend their growth and development.
77	BA2021	Allied I - Theory : - Taxonomy of Angiosperms and Herbal Technology				To cultivate expertise in angiosperm classification and herbal technology for informed plant identification and utilization.
78	BA20P1	Allied Practical I - Chemistry¬ of Life and Taxonomy of Angiosperms and Herbal Technology				To equip students with the expertise to classify angiosperms and apply herbal technology for diverse practical applications.
79	BNM202	Non Major Elective NME II - Biofertilizers, Biofuels and Biopesticides (NMEC)				To equip the students with the knowledge and skills to harness biofertilizers, biofuels, and biopesticides for sustainable and eco- friendly agricultural and environmental practices.
80	BC2031	Major Core III - Archegoniate				To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
81	BC2032	Major Elective -I (a) Herbal Botany			\bigtriangledown	To develop skills to become employable as professionals in traditional medicinal system.
82	BC2033	Major Elective - I (b) Nursery and Gardening	\square	Q		To understand develop and maintenance of gardening.
83	BC2034	Major Elective - I (c) Agricultural Botany		$\overline{\square}$		To understand agricultural practices, seed technology; cropping scheme and soil fertility.
84	BA2031	Allied II - Theory : Plant Diversity - I (Algae, Fungi, Bryophyta and Pteridophyta)				To learn the basic knowledge about the lower group flora.
85	BC20S1	Self Learning Course : Plant Resource Utilization		\square		To study the importance of plant resources.
86	BC2041	Major Core IV - Plant Ecology and Phytogeography	Ø			To learn the basic knowledge soil, water, vegetation and ecological groups.
87	BC2042	Major Elective - II (a) Biological Resources		\bigtriangledown		To understand the cultivation and production of biofertilizers, microbial fertilizers, biofertilizers and biopesticides.
88	BC2043	Elective - II (b) Food Science		\bigtriangledown		To learn about the importance, constituents and health practices
89	BC2044	Elective – II (c) Biodiversity and Human Welfare				of food and balanced diet. To learn about the inportance of biodiversity and aware to
90	BA2041	Allied II - Theory : Plant Diversity - II (Gymnosperms,				conserve the biodiversity. To understand the structure and functions of basic organelles of
91	BC20P2	Angiosperms and Plant Phsiology) Major Practical Paper - II Archegoniate & Plant Ecology				plant cells and internal structure of plant parts. To learn the sectioning techniques for microscopic observation.
92	BA20P2	and Phytogeography Allied II - Practical : Plant Diversity I & II and Plant				To learn about physiology experimental set up.
93	BC20S2	Physiology Self Learning Course : Algal Biotechnology	\square	\square		To learn about the importance of algal diversity and aware to
94	BC2051	Major Core V -Taxonomy of Angiosperms and Economic			\Box	conserve the marine ecosystem. To acquire knowledge on the botanical vocabulary and
95	BC2052	Botany Major Core VI - Biochemistry and Biophysics			_	taxonomical terminology to identify plants. To learn the emerging field of biophysics and principles of
,,,	002032	ingor core in Bronennsu'y and Brophysics	0			bioenergetics.
96	BC2053	Major Core VII - Microbiology and Plant Pathology				To provide the students with the comprehensive understanding and appreciation for the diversity and significance of microbes on planet earth.
97	BC20PR	Major - Elective III - Research Project				To practice research.
98	BC2061	Major Core VIII - Genetics, Biostatistics and Bioinformatics	\bigtriangledown			To generate biological interpretations and conclusions from data of scientific research.
99	BC2062	Major Core IX - Biotechnology and Molecular Biology				To develop skills to become employable as professionals in Biotechnology Industries.
100	BC2063	Major Core X - Plant Physiology and Metabolism	\bigtriangledown			To comprehend the fundamental concepts of plant physiology.
101	BC2064	Major - Elective IV (a) Marine Botany	 0			To understand the diversity of marine organisms.
						To empower the employment opportunity of youth at village
102	BC2065	Major - Elective IV (b) Organic Farming				level in organic market as organic growers, stakeholders, and
102	BC2065 BC2066	Major - Elective IV (b) Organic Farming Major- Elective IV (c) Ecotourism				
		Major- Elective IV (c) Ecotourism Major Practical III - Taxonomy and Economic Botany &				level in organic market as organic growers, stakeholders, and entrepreneurs. To highlight the need for sustainable tourism. To understand and identify the locally available common plants
103	BC2066	Major- Elective IV (c) Ecotourism Major Practical III - Taxonomy and Economic Botany & Biochemistry and Biophysics Major Practical IV - Genetics, Biostatistics and				level in organic market as organic growers, stakeholders, and entrepreneurs. To highlight the need for sustainable tourism.
103 104	BC2066 BC20P3	Major-Elective IV (c) Ecotourism Major Practical III - Taxonomy and Economic Botany & Biochemistry and Biophysics Biochemistry and Biophysics Major Practical IV - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology Major Practical V - Microbiology and Plant Pathology &	$\overline{\mathbf{N}}$			level in organic market as organic growers, stakeholders, and entrepreneurs. To highlight the need for sustainable tourism. To understand and identify the locally available common plants and performing experiments in Biochemistry. To interpret experimental data using Biostatistics. To demonstrate and interpret the results to microbiology and
103 104 105	BC2066 BC20P3 BC20P4	Major-Elective IV (c) Ecotourism Major Practical III - Taxonomy and Economic Botany & Biochemistry and Biophysics Bioinformatics & Biotechnology and Molecular Biology Major Practical IV - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology Major Practical V - Microbiology and Plant Pathology & Plant Physiology and Metabolism Skill Enhancement Course (SEC) - Global Environmental Skill Enhancement Course (SEC)	y y			level in organic market as organic growers, stakeholders, and entrepreneurs. To highlight the need for sustainable tourism. To understand and identify the locally available common plants and performing experiments in Biochemistry. To interpret experimental data using Biostatistics. To demonstrate and interpret the results to microbiology and physiology experiments. To acquire the knowledge, values, attitudes, commitment, and
103 104 105 106	BC2066 BC20P3 BC20P4 BC20P5	Major-Elective IV (c) Ecotourism Major Practical III - Taxonomy and Economic Botany & Biochemistry and Biophysics Bioinformatics & Biotechnology and Molecular Biology Major Practical IV - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology Major Practical V - Microbiology and Molecular Biology Major Practical V - Microbiology and Plant Pathology & Plant Physiology and Metabolism Skill Enhancement Course (SEC) - Global Environmental Issues Core I - Plant Diversity I – Algae, Fungi,Lichens and Core I - Plant Diversity I – Algae, Fungi,Lichens and	y y y			level in organic market as organic growers, stakeholders, and entrepreneurs. To highlight the need for sustainable tourism. To understand and identify the locally available common plants and performing experiments in Biochemistry. To interpret experimental data using Biostatistics. To demonstrate and interpret the results to microbiology and physiology experiments. To acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment. To gain adequate knowledge on comparative account of variuos
103 104 105 106 107	BC2066 BC20P3 BC20P4 BC20P5 SEC203	Major-Elective IV (c) Ecotourism Major Practical III - Taxonomy and Economic Botany & Biochemistry and Biophysics Bioinformatics & Biotechnology and Molecular Biology Major Practical IV - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology Bioinformatics & Biotechnology and Molecular Biology Major Practical V - Microbiology and Plant Pathology & Plant Physiology and Metabolism Skill Enhancement Course (SEC) - Global Environmental Issues				level in organic market as organic growers, stakeholders, and entrepreneurs. To highlight the need for sustainable tourism. To understand and identify the locally available common plants and performing experiments in Biochemistry. To interpret experimental data using Biostatistics. To demonstrate and interpret the results to microbiology and physiology experiments. To acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment.
103 104 105 106 107 108 109 110	BC2066 BC20P3 BC20P4 BC20P5 SEC203 PB2011 PB2012 PB2013	Major-Elective IV (c) Ecotourism Major Practical III - Taxonomy and Economic Botany & Biochemistry and Biophysics Major Practical IV - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology Major Practical V - Microbiology and Plant Pathology & Plant Physiology and Metabolism Skill Enhancement Course (SEC) - Global Environmental Issues Core I - Plant Diversity I – Algae, Fungi,Lichens and Bryophytes Core III – Microbiology Core III – Plant Anatomy & Embryology				level in organic market as organic growers, stakeholders, and entrepreneurs. To highlight the need for sustainable tourism. To understand and identify the locally available common plants and performing experiments in Biochemistry. To interpret experimental data using Biostatistics. To demonstrate and interpret the results to microbiology and physiology experiments. To acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment. To gain adequate knowledge on comparative account of variuos lower group flora. To understand the microbial world and their impact in daily life. To get brief knowledge on plant breeding techniques.
103 104 105 106 107 108 109 110 111	BC2066 BC20P3 BC20P4 BC20P5 SEC203 PB2011 PB2012 PB2013 PB2014	Major-Elective IV (c) Ecotourism Major Practical III - Taxonomy and Economic Botany & Biochemistry and Biophysics Major Practical IV - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology Major Practical V - Microbiology and Molecular Biology & Plant Physiology and Metabolism Skill Enhancement Course (SEC) - Global Environmental Issues Core I - Plant Diversity I – Algae, Fungi,Lichens and Bryophytes Core III – Microbiology Core III – Plant Anatomy & Embryology Elective I – (a) Marine Biology				level in organic market as organic growers, stakeholders, and entrepreneurs. To highlight the need for sustainable tourism. To understand and identify the locally available common plants and performing experiments in Biochemistry. To interpret experimental data using Biostatistics. To demonstrate and interpret the results to microbiology and physiology experiments. To acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment. To gain adequate knowledge on comparative account of variuos lower group flora. To understand the microbial world and their impact in daily life. To get brief knowledge on plant breeding techniques. To understand the marine environs.
103 104 105 106 107 108 109 110 111	BC2066 BC20P3 BC20P4 BC20P5 SEC203 PB2011 PB2012 PB2013 PB2015	Major- Elective IV (c) Ecotourism Major Practical III - Taxonomy and Economic Botany & Biochemistry and Biophysics Major Practical IV - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology Major Practical V - Microbiology and Molecular Biology Major Practical V - Microbiology and Plant Pathology & Plant Physiology and Metabolism Skill Enhancement Course (SEC) - Global Environmental Issues Core I - Plant Diversity I – Algae, Fungi,Lichens and Bryophytes Core III – Microbiology Core III – Plant Anatomy & Embryology Elective I – (a) Marine Biology Elective I – (b) Organic Farming				level in organic market as organic growers, stakeholders, and entrepreneurs. To highlight the need for sustainable tourism. To understand and identify the locally available common plants and performing experiments in Biochemistry. To interpret experimental data using Biostatistics. To demonstrate and interpret the results to microbiology and physiology experiments. To acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment. To gain adequate knowledge on comparative account of variuos lower group flora. To understand the microbial world and their impact in daily life. To get brief knowledge on plant breeding techniques. To understand the marine environs. To understand basic concepts of organic farming.
103 104 105 106 107 108 109 110 111	BC2066 BC20P3 BC20P4 BC20P5 SEC203 PB2011 PB2012 PB2013 PB2014	Major-Elective IV (c) Ecotourism Major Practical III - Taxonomy and Economic Botany & Biochemistry and Biophysics Major Practical IV - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology Major Practical V - Microbiology and Molecular Biology & Plant Physiology and Metabolism Skill Enhancement Course (SEC) - Global Environmental Issues Core I - Plant Diversity I – Algae, Fungi,Lichens and Bryophytes Core III – Microbiology Core III – Plant Anatomy & Embryology Elective I – (a) Marine Biology				level in organic market as organic growers, stakeholders, and entrepreneurs. To highlight the need for sustainable tourism. To understand and identify the locally available common plants and performing experiments in Biochemistry. To interpret experimental data using Biostatistics. To demonstrate and interpret the results to microbiology and physiology experiments. To acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment. To gain adequate knowledge on comparative account of variuos lower group flora. To understand the microbial world and their impact in daily life. To get brief knowledge on plant breeding techniques. To understand the marine environs.

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116	PB2025	Elective II – (b) Evolutionary Biology				\checkmark	\square	To understand the process of evolution.
117	PB20P1	Practical I - Plant Diversity I – Algae, Fungi, Lichens and Bryophytes, Microbiology and Plant Anatomy		\bigtriangledown				To identify microbes in laboratory.
110	DD 20D2	&Embryology		0				
118	PB20P2	Practical II - Plant Diversity II- Pteridophyta, Gymnosperms and Palaeobotany, Research Methodology and Cell Biology and Biomolecules						To differentiate non flowering plants.
119	PB2031	Core VII - Taxonomy of Angiosperms						To get knowledge of modern trends in taxonomy of Angiosperms.
120	PB2032	Core VIII – Genetics and Molecular Biology						To acquire knowledge in laboratory techniques.
120	PB2032	Elective III – (a) Horticulture		Ø				To study the nursery and horticultural techniques.
122	PB2034	Elective III – (b) Forestry		Ø	1			To learn about the forest management methods.
123	PB20S1	Self Learning Course - Biology for competitive exam – I		Ø				To understand the basic concepts in preparing competitive exams.
124	PB2041	Core IX - Plant Physiology						To have a broad knowledge about plant physiology.
125	PB2042	Core X – Plant Ecology and Phytogeography		$\overline{\square}$				To get idea about the ecosystem and conservation.
126	PB2043	Core XI – Biotechnology & Bioinformatics		$\overline{\square}$				To employ microbes in producing useful products.
127	PB2044	Elective IV – (a) Phytochemistry and Pharmacognosy		Ā				To understand the bioinformatiocs tools in the field of Biology.
128	PB20P3	Practical III - Taxonomy of Angiosperms & Genetics and		$\overline{\mathbf{v}}$				To learn about the taxonomical terminology, morphology,
120	DD20D4	Molecular Biology.						structure and functions of various parts of plants.
129	PB20P4	Practical IV - Plant Physiology, Plant Ecology & Phytogeography and Biotechnology & Bioinformatics		\Box				To understand the methodology involved in environment and conservation biology.
130	PB20S2	Self Learning Course - Biology for competitive exam – II		\bigtriangledown				To understand the basic concepts of preparing for competitive
		2	021-2	2022				exams.
				-		-		
131	BC2011	Major Core I - Algae, Fungi and Lichens						To develop a deep comprehension of the diversity, biology, and ecological roles of major algae, fungi, and lichens for ecological and applied knowledge.
132	BA2011	Allied I - Chemistry¬ of Life		\square	\square		-	To provide a foundational understanding of the fundamental
152	BA2011	Alled I - Chemistry (of Life			0			chemical principles underlying biological systems and their applications.
133	BNM201	Non Major Elective NME I - Gardening and Floriculture		\bigtriangledown	\square			To cultivate expertise in gardening and floriculture techniques
		(NMEC)						for creating and managing aesthetically pleasing and sustainable green spaces.
134	BC2021	Major Core II - Plant Anatomy and Developmental Botany		\bigtriangledown				To foster a comprehensive understanding of plant anatomy and developmental processes to elucidate plant growth and structure.
		botany						developmental processes to encluate plant grown and structure.
135	BC20P1	Practical I -Algae, Fungi ,Lichens and Plant Anatomy and		\bigtriangledown				To develop hands-on expertise in observing and analyzing plant
		Developmental Botany						tissues and structures to comprehend their growth and
				_			_	development.
136	BA2021	Allied I - Theory : - Taxonomy of Angiosperms and Herbal Technology						To cultivate expertise in angiosperm classification and herbal technology for informed plant identification and utilization.
137	BA20P1	Allied Practical I - Chemistry¬ of Life and Taxonomy of		\bigtriangledown				To equip students with the expertise to classify angiosperms and
100	D.D. (202	Angiosperms and Herbal Technology		0				apply herbal technology for diverse practical applications.
138	BNM202	Non Major Elective NME II - Biofertilizers, Biofuels and Biopesticides (NMEC)		\square				To equip students with the knowledge and skills to harness biofertilizers, biofuels, and biopesticides for sustainable and eco
				_				friendly agricultural and environmental practices.
139	BC2031	Major Core III - Archegoniate		\square				To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
140	BC2032	Major Elective -I (a) Herbal Botany					\square	To develop skills to become employable as professionals in
						_)	traditional medicinal system.
141	BC2033	Major Elective - I (b) Nursery and Gardening		\bigtriangledown		\bigtriangledown		To understand garden making maintenance of gardening and lawn.
142	BC2034	Major Elective - I (c) Agricultural Botany						To understand agricultural practices, seed technology; cropping scheme and soil fertility.
143	BA2031	Allied II - Theory : Plant Diversity - I (Algae, Fungi, Bryophyta and Pteridophyta)			1			To learn the basic knowledge taxonomy and plant physiology.
144	BC20S1	Self Learning Course : Plant Resource Utilization	1	\square	1			To study the importance of plant resources.
145	BC2041	Major Core IV - Plant Ecology and Phytogeography		Ø				To learn the basic knowledge soil, water, vegetation and ecological groups.
146	BC2042	Major Elective - II (a) Biological Resources						To understand the cultivation and production of biofertilizers, microbial fertilizers, biofertilizers and biopesticides.
147	BC2043	Elective - II (b) Food Science				\bigtriangledown		To learn about the importance, constituents and health practices of food and balanced diet.
148	BC2044	Elective – II (c) Biodiversity and Human Welfare						To learn about the importance of biodiversity and aware to conserve the biodiversity.
149	BA2041	Allied II - Theory : Plant Diversity - II (Gymnosperms,		\bigtriangledown				To understand the structure and functions of basic organelles of
	BC20P2	Angiosperms and Plant Phsiology) Major Practical Paper - II Archegoniate & Plant Ecology and Phytogeography						plant cells and internal structure of plant parts. To learn the sectioning for microscopic observation.
150		and Phytogeography Allied II - Practical : Plant Diversity I & II and Plant		\square				To learn about physiology experimental set up.
150 151	BA20P2							
	BA20P2 BC20S2	Physiology Self Learning Course : Algal Biotechnology						To learn about the importance of algal diversity and aware to conserve the marine ecosystem.

154	BC1752	Major Core VI - Biochemistry and Biophysics	0	2				To learn the emerging field of biochemistry, biophysics and principles of bioenergetics.
155	BC1753	Major Core VII - Microbiology and Plant Pathology	0	3				To provide the students with the comprehensive understanding in microbiology and plant pathology.
156	BC1754	Major - Elective III (a) Horticulture and Plant Breeding	0	2				To perform horticultural and plant breeding practices.
157	BC1755	Major - Elective III (b) Forestry	0	3				To have broad knowledge about the forest and forest products.
158	BC1756	Major - Elective III (c) Biological Techniques	0	2				To study the principle, working mechanism and uses of instruments used in biology.
159	BC17P5	Major Practical V - Taxonomy and Economic Botany & Biochemistry and Biophysics	2	2				To identify the plant specimens with respect to their botanical families.
160	BSK175	Skill Based Course (*SBC) – Floriculture	2	2				To develop flower garden around the home and office to reduce of stress related depression of the livelihood.
161	BC1761	Major Core VIII - Genetics, Biostatistics and Bioinformatics				\bigtriangledown		To generate logical interpretations and conclusions from graphs, models, and data of scientific research.
162	BC1762	Major Core IX - Biotechnology and Molecular biology						To evaluate and use biological information effectively, ethically, and legally.
163	BC1763	Major Core X - Plant Physiology and Metabolism		2				To integrate and interconnect plant physiological knowledge in agriculture, forestry, environmental science and genetics.
164	BC1764	Major - Elective III (a) - Marine Botany	2	N	_			To recognize the marine pollution and conservation methods.
165	BC1765	Major - Elective III (b) - Organic Farming		3		N		To understand the need and generating knowledge and skill on various organic farming practices.
166	BC1766	Major - Elective III (c) - Ecotourism	0	2	-	N		To highlight the need for sustainable tourism.
167	BC17P6	Major Practical VI - Genetics, Biostatistics and	Ū					To demonstrate experiments and interpret experimental data
		Bioinformatics & Biotechnology and Molecular Biology						using biostatistics.
168	BC17P7	Major Practical VII - Microbiology and Plant Pathology	2	2				To demonstrate and interpret the results of physiology and
		&Plant Physiology and Metabolism		-				microbiology experiments.
169	PB2011	Core I - Plant Diversity I – Algae, Fungi, Lichens and	<u>ا</u>	2	-+		<u> </u>	To gain adequate knowledge on comparative account of various
		Bryophytes		-	1			algal divisions.
170	PB2012	Core II – Microbiology	٦ ا	7	\neg			To understand the microbial world.
171	PB2012	Core III – Plant Anatomy & Embryology	- -					To get brief knowledge on plant breeding techniques.
172	PB2014	Elective I – (a) Marine Biology			-+			To understand the marine environment.
172	PB2015	Elective I – (b) Organic Farming	- -		\rightarrow			To understand basic concepts of organic farming.
174	PB2021	Core IV – Plant Diversity II - Pteridophyta, Gymnosperms and Palaeobotany	2					To understand base concepts of organic ramming. To understand the evolutionary tendency of Thallophytes.
175	PB2023	Core VI – Cell Biology and Biomolecules	, L	7	-+		<u> </u>	To understand the basic concepts of cell and cell functions.
176	PB2024	Elective II – (a) Herbalism	- -		-+			To study of basic knowledge about herbals.
177	PB2025	Elective II – (b) Evolutionary Biology			-+		$\overline{\square}$	To understand the process of evolution.
178	PB20P1	Practical I - Plant Diversity I – Algae, Fungi, Lichens and Bryophytes, Microbiology and Plant Anatomy &Embryology		ā				To identify different strains of micronbes.
179	PB20P2	Practical II - Plant Diversity II- Pteridophyta, Gymnosperms and Palaeobotany, Research Methodology and Cell Biology and Biomolecules		2				To differentiate non flowering plants.
180	PB2031	Core VII - Taxonomy of Angiosperms	-	2				To get knowledge of modern trends in taxonomy of Angiosperms.
181	PB2032	Core VIII - Genetics and Molecular Biology		N				To acquire knowledge in laboratory techniques.
182	PB2033	Elective III – (a) Horticulture	•	2				To study the horticultural techniques.
183	PB2034	Elective III – (b) Forestry	0					To learn the forest management methods.
184	PB20S1	Self Learning Course - Biology for competitive exam - I	•					To get exposure to write competitive exams.
185	PB2041	Core IX - Plant Physiology	<u>-</u>					To knowledge about plant physiological aspects.
186	PB2042	Core X – Plant Ecology and Phytogeography	2			_	┝──	To get idea about the environment.
187	PB2043	Core XI – Biotechnology & Bioinformatics	2			\bigtriangledown	<u> </u>	To employ microbes in producing useful products.
188	PB2044	Elective IV – (a) Phytochemistry and Pharmacognosy		2			└──	To understand the bioinformatics tool in the field of biology.
189	PB20P3	Practical III - Taxonomy of Angiosperms & Genetics and Molecular Biology.	0					To learn about the taxonomical terminology, morphology, structure and functions of various parts of plants.
190	PB20P4	Practical IV - Plant Physiology, Plant Ecology & Phytogeography and Biotechnology & Bioinformatics		2				To understand the methodology involved in environment and conservation biology.
191	PB20S2	Self Learning Course - Biology for competitive exam – II		2				To get exposure to write competitive exams.
			20-202					
192	BC2011	Major Core I - Algae, Fungi and Lichens		2				To develop a deep comprehension of the diversity, biology, and ecological roles of major algae, fungi, and lichens for ecological and applied knowledge.
193	BA2011	Allied I - Chemistry¬ of Life		2				To provide a foundational understanding of the fundamental chemical principles underlying biological systems and their applications.
194	BNM201	Non Major Elective NME I - Gardening and Floriculture (NMEC)		2				To cultivate expertise in gardening and floriculture techniques for creating and managing aesthetically pleasing and sustainable green spaces.
195	BC2021	Major Core II - Plant Anatomy and Developmental	•	2			1	To foster a comprehensive understanding of plant anatomy and

196	BC20P1	Practical I -Algae, Fungi ,Lichens and Plant Anatomy and Developmental Botany	6	5			To develop hands-on expertise in observing and analyzing plant tissues and structures to comprehend their growth and development.
197	BA2021	Allied I - Theory : - Taxonomy of Angiosperms and Herbal Technology	6	$\overline{}$		\square	To cultivate expertise in angiosperm classification and herbal technology for informed plant identification and utilization.
198	BA20P1	Allied Practical I - Chemistry¬ of Life and Taxonomy of Angiosperms and Herbal Technology	6	\Box			To equip students with the expertise to classify angiosperms and apply herbal technology for diverse practical applications.
199	BNM202	Non Major Elective NME II - Biofertilizers, Biofuels and Biopesticides (NMEC)	6	9			To equip students with the knowledge and skills to harness biofertilizers, biofuels, and biopesticides for sustainable and eco- friendly agricultural and environmental practices.
200	BC1731	Major Core III - Archegoniate	6	\triangleleft			To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
201	BC1732	Major Elective – I (a) Herbal Botany			\bigtriangledown	\square	To develop skills to become employable as professionals in traditional medicinal system.
202	BC1733	Major Elective – I (b) Nursery and Gardening	6	9			To understand making and maintenance of gardening and lawn.
203	BC1734	Major Elective – I (c) Agricultural Botany	6	\checkmark			To understand agricultural practices, seed technology; cropping scheme and soil fertility.
204 205	BC17P3 BA1731	Major Practical Paper - III Archegoniate Allied II - Theory : Taxonomy of Angiosperms and Plant Physiology		5 5			To learn the sectioning for microscopic observation. To learn the basic knowledge on taxonomy and plant physiology.
206	BC17S1	Self Learning Course - Plant Resource Utilization	6		$\mathbf{\nabla}$		To study the importance of plant resources.
207	BC1742	Major - Elective II (a) Biological Resources			\bigtriangledown		To understand the cultivation and production of biofertilizers, microbial fertilizers, biofertilizers and biopesticides.
208	BC1743	Major - Elective II (b) Food Science					To learn about the importance, constituents and health practices of food and balanced diet.
209	BC1744	Major - Elective II (c) Biodiversity and Human Welfare	_	$\overline{\mathbf{v}}$	\Box		To learn about the importance of biodiversity and aware to conserve the biodiversity.
210	BC17P4	Major Practical IV - Plant Ecology and Phytogeography	6	$\overline{\mathbf{v}}$			To understand the structure and functiond of basic organelles of plant cells and internal structure of plant parts.
211	BA1741	Allied II – Theory : Cell Biology and Plant Anatomy	6	$\overline{\mathbf{v}}$			To learn the sectioning for microscopic observation and studying vegetation.
212	BA17P2	Allied II – Practical: Taxonomy, Anatomy, Plant Physiology, Cell Biology and Plant Anatomy	6	\triangleleft			To learn about physiology experimental set up.
213	BC17S2	Self Learning Course - Algal Biotechnology	6	$\overline{}$	\bigtriangledown		To learn about the importance of algal diversity and aware to conserve the marine ecosystem.
214	BC1751	Major Core V - Taxonomy and Economic Botany	6	$\overline{}$			To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
215	BC1753	Major Core VII - Microbiology and Plant Pathology	6	$\overline{}$			To provide the students with the comprehensive understanding in microbiology and plant pathology.
216	BC1754	Major - Elective III (a) Horticulture and Plant Breeding	6	$\overline{}$			To perform horticultural practices and plant breeding techniques.
217	BC1755	Major - Elective III (b) Forestry	6	$\overline{}$			To learn broad knowledge about the forest and forest products.
218	BC1756	Major - Elective III (c) Biological Techniques		$\overline{\mathbf{v}}$			To study principle, working mechanism and uses of instruments used in biology.
219	BC17P5	Major Practical V - Taxonomy and Economic Botany & Biochemistry and Biophysics	6	$\overline{\mathbf{v}}$			To identify the plant specimens.
220	BSK175	Skill Based Course (*SBC) – Floriculture	6	$\overline{\mathbf{v}}$			To develop flower garden around the home and office to reduce of stress related depression of the livelihood.
221	BC1761	Major Core VIII - Genetics, Biostatistics and Bioinformatics			\bigtriangledown		To generate logical interpretations and conclusions from graphs, models, and data of scientific research.
222	BC1762	Major Core IX - Biotechnology and Molecular biology					To evaluate and use biological information effectively, ethically, and legally.
223	BC1763	Major Core X - Plant Physiology and Metabolism		\triangleleft			To integrate and interconnect plant physiological knowledge in agriculture, forestry, environmental science and genetics.
224 225	BC1764 BC1765	Major - Elective III (a) - Marine Botany Major - Elective III (b) - Organic Farming	6	S S S	$\mathbf{\Sigma}$		To recognize the marine pollution and conservation methods. To understood the need and generating knowledge and skill on various organic farming practices.
226	BC1766	Major - Elective III (c) - Ecotourism			 $\mathbf{\nabla}$		To highlight the need for sustainable tourism.
227	BC17P6	Major Practical VI - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology		\triangleleft			To demonstrate experiments and interpret experimental data using biostatistics.
228	BC17P7	Major Practical VII - Microbiology and Plant Pathology &Plant Physiology and Metabolism		$\overline{}$			To demonstrate and interpret the results of physiology and microbiology experriments.
229	PB2011	Core I - Plant Diversity I – Algae, Fungi,Lichens and Bryophytes		9			To gain adequate knowledge on comparative account of various algal divisions.
230	PB2012	Core II – Microbiology		$\overline{}$			To understand the microbial world and their imapct in daily life.
231	PB2013	Core III – Plant Anatomy & Embryology		2			To get brief knowledge on plant breeding techniques.
232	PB2014	Elective I – (a) Marine Biology		2			To understand the marine environs.
233	PB2015 PB2021	Elective I – (b) Organic Farming Core IV – Plant Diversity II - Pteridophyta, Gymnosperms		N N			To understand basic concepts of organic farming.
234		Core IV – Plant Diversity II - Pteridophyta, Gymnosperms and Palaeobotany Core VI – Cell Biology and Biomolecules		<u>হ</u>			To understand the evolutionary tendency of Thallophytes. To understand the basic concepts of cell and cell functions.
225							The understand the basic concepts of cell and cell functions.
235 236	PB2023 PB2024	Elective II – (a) Herbalism		- -			To have basic knowledge about herbals.

288 PP32011 Practical 1 - Near Diversity - Alge, Faug, Likbes at Provide, Korney and Leicher Structure, Provide, Korney Structure, Provide,									
339 P120P2 P2012 Particular F, Para Deschurg, Parater Macholage,	238	PB20P1	Bryophytes, Microbiology and Plant Anatomy		\bigtriangledown				To understand the lower group plant diversity.
340 P11731 Core VIT - Transmory of Angiogeneria and Focomonic Image: Construction of an Angiogeneria and Modelan Biology Image: Construction of Angiogeneria	239	PB20P2	Practical II - Plant Diversity II- Pteridophyta, Gymnosperms and Palaeobotany, Research Methodology						To differentiate non flowering plants.
311 PBT732 Cov VIII - Contacts and Molecular Biology Image: Cov VIII - Contacts and Molecular Biology Image: Cov VIII - Contacts and Molecular Biology 213 PBT731 Exterve III - Ot House-Struture and Past Biocharg Biochard Image: Cov VIII - Contacts and Molecular Biology Image: Cov VIII - Contacts and Molecular Biology 214 PBT212 Cov X - Environment and Conservation Biology Image: Cov VIII - Contacts and Molecular Biology Image: Cov VIII - Contact - Contact Molecular Biology 216 PBT722 Cov X - Environment and Conservation Biology Image: Cov VIII - Contact - Contact Molecular Biology Image: Cov VIII - Contact - Contact Molecular Biology Image: Cov VIII - Contact - Cov VIII - Cov VIII - Cov VIII - Cov VIIII - Cov VIIIII - Cov VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	240	PB1731	Core VII - Taxonomy of Angiosperms and Economic						
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346 PR1742 Curk X - Invionment and Conservation Biology Q To predice with added profiles with an antibutiss. 347 PR1744 Lickick V - (a) Industrial Metodiology Q V To predice with added profiles with antibutiss. 348 PR1744 Lickick V - (a) Industrial Metodiology Q V To emptoy microbia and profiles with a multibulist. 349 PR1752 Self Larning Course - Tuology of competitive sum Q V To acquire basic loca about the environment. 349 BC1711 Maior Core I - Alase. Fungi and Lichere Q Q To acquire basic loca about one profiles corregative grants. 250 BC1711 Maior Core I - Alase. Fungi and Lichere Q Q To descript hands on expective in of lower grant floar. 252 BNM711 Num Major Elective Course (NMC) - Food and Lichere Q To acquire basic loca about the environment and discuble grant on the based of antamicon and discuble about the environment and elective course (Intel Course and the environment and elective course (Intel Course about the environment and elective course (Intel Co	243	PB1734	III)		_				· · · · · · · · · · · · · · · · · · ·
216 P181/73 Cure X1 - Applied Biochemiogy Image: Constraint Section 2014 (Constraint Section 2014) 217 P181/P1 Elactic W - Valuet Physiology and Metabolant, Environment and Conservation Biology and Applied Image: Constraint Section 2014 (Constraint Section 2014) 2280 P171 Parcical W - Plant Physiology and Metabolant, Environment and Conservation Biology and Applied Image: Constraint Section 2014 (Constraint Section 2014) 2391 PR1751 Secti Learning Course - Biology for competitive exam - II Image: Constraint Section 2014 (Constraint Section 2014) 2301 BAC1711 Major Case I - Algas, Fungi and Lickens: Image: Constraint Section 2014 (Constraint Section 2014) Image: Constraint Section 2014 (Constraint Section 2014) 231 BAC1711 Major Case I - Algas, Fungi and Lickens: Image: Constraint Section 2014 (Constraint Section 2014) Image: Constraint Section 2014 (Constraint Section 2014) 232 BAC1721 Major Constraint Section 2014 (Constraint Section 2014) Image: Constraint Section 2014 (Constraint Section 2014) 233 BC1721 Major Constraint Section 2014 (Constraint Section 2014) Image: Constraint Section 2014 (Constraint Section 2014) 234 BAC1721 Major Constraint Section 2014 (Constraint Section 2014) Image: Constraint Section 2014 (Constraint Section 2014) 235 BC1721 Major Constraint Section 2014 (Constraint Section 2014) Image: Constraint 2014 (Constrain									
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252 BNM171 No Major Elective Course (NMEC) – Food and Nutrition Image: Comparison of the second part of the se						\square			
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Image: Second	253	BC17P1	Major Practical I - Algae, Fungi and Lichen						
Plant Anatomy and Embryology Image: State of the internal structure of plants and their embryonic development. 256 BA1721 Allied 1 - Theory : Taxonomy of Angiosperms and Plant Physiology Image: State of the internal structure of plants and their embryonic development. 257 BA1721 Allied 1 - Practical - Cell Biology. Plant Anatomy, Taxonomy of Angiosperms and Plant Physiology Image: State of the internal structure of plant biology. 258 BNN172 Non Major Elective Course (NMEC) - Eco - Friendly Technology Image: State of the image: State of the image internal structure of plant structures. 259 BC1731 Major Core III - Archegoniate Image: State of the image internal structure of plants. 260 BC1732 Major Elective - 1(a) Herbal Botany Image: State of the image internal structure of plants. 261 BC1734 Major Elective - 1(c) Agricultural Botany Image: State of the image internal structure of plants. 263 BC1734 Major Practical Paper - III Archegoniate Image: Image: Image internal structure of plant structure. 264 BC1734 Major Practical Paper - III Archegoniate Image: Image: Image internal structure of plant structure. 265 BC1734 Major Practical Paper - III Archegoniate Image: Image: Image internal structure of plant structure. 264 BC	254	BC1721	Major Core II - Plant Anatomy and Embryology		\bigtriangledown				structure, growth, and development of plants from cellular to
256 BA1721 Allied 1 - Theory : Taxonomy of Angiosperms and Plant Image: Constraint of the diversity and cassification of flowering plants and Physiological processes for a comprehensive grasp of plant biology. 257 BA17P1 Allied I - Practical - Cell Biology, Plant Anatomy, Taxonomy of Angiosperms and Plant Physiology Image: Constraint of the diversity and cassification of flowering plants. 258 BNM172 Non Major Elective Course (NMEC) - Eco - Friendly Technology Image: Constraint of the diversity and cassification of flowering plants. 259 BC1731 Major Core III - Archegoniate Image: Constraint of the diversity and cassification of constraints. 260 BC1732 Major Elective - I (a) Herbal Botany Image: Constraint of the diversity and cassification of constraints. 261 BC1733 Major Elective - I (a) Herbal Botany Image: Constraint of the making and maintenance of gardening and law of the diversity and cassification of constraints. To develop skills to become employable as professionals in traditional medicinal system. 262 BC1733 Major Elective - I (c) Agricultural Botany Image: Constraint diversity and cassification of flowering plants. 263 BC1734 Major Planctive and gardening and law of the making and maintenance of gardening and law. Image: Constraint diversity and cassification of flowering plants. 264 BA1731 Allied II - Theo	255	BC17P2							studying the internal structure of plants and their embryonic
257 BA17P1 Allied I - Practical - Cell Biology, Plant Anatomy, Taxonomy of Angiosperms and Plant Physiology Image: Comparison of Comparison and Plant Physiology 258 BNM172 Non Major Elective Course (NMEC) - Eco - Friendly Technology Image: Comparison and Plant Physiology Image: Comparison and Plant Physiology 259 BC1731 Major Core III - Archegoniate Image: Comparison and Plant Physiology Image: Comparison and Plant Physiology 260 BC1732 Major Elective - 1 (a) Herbal Botany Image: Comparison and Plant Physiology Image: Comparison and Plant Physiology 261 BC1733 Major Elective - 1 (c) Agricultural Botany Image: Comparison and Plant Physiology Image: Comparison and Plant Physiology 263 BC1734 Major Elective - 1 (c) Agricultural Botany Image: Comparison and Plant Physiology Image: Comparison and Plant Physiology 264 BA1731 Major Practical Paper - III Archegoniate Image: Comparison and Plant Physiology Image: Comparison and Plant Physiology 265 BC1734 Major Practical Paper - III Archegoniate Image: Comparison and Plant Physiology Image: Comparison and Plant Physiology 266 BC1741 Major Core IV - Plant Resource Utilization Image: Comparison and Plant Physiology Image: Comparison anoplant Physiology	256	BA1721							and their physiological processes for a comprehensive grasp of
259 BC1731 Major Core III - Archegoniate Implement sustainable technologies that minimize environmental impact and promote a greener future. 260 BC1732 Major Elective - I (a) Herbal Botany Impact and promote a greener future. 261 BC1733 Major Elective - I (a) Herbal Botany Impact and promote a greener future. 261 BC1733 Major Elective - I (b) Nursery and Gardening Impact and promote a greener future. 262 BC1734 Major Elective - I (c) Agricultural Botany Impact and promote a greener future. 263 BC1734 Major Practical Paper - III Archegoniate Impact and promote a greener future. 264 BA1731 Allied II - Theory : Taxonomy of Angiosperms and Plant Physiology. Impact and promote a greener future. 265 BC1744 Major Core IV - Plant Resource Unitization Impact and promote a greener future. 266 BC1741 Major Orer V - Plant Resource Unitization Impact and promote a greener future. 267 BC1742 Major Core IV - Plant Resource Unitization Impact and promote a greener future. 268 BC1742 Major - Elective II (n) Food Science Impact and promote a greener future. 269 BC1743 Major - Elective II (n) Food Science <	257	BA17P1	Taxonomy of Angiosperms and Plant Physiology						To develop hands-on skills in exploring cellular structures, plant tissue organization, and conducting experiments related to the
259 BC1731 Major Core III - Archegoniate Image: Construction of the properties of the prescribed families and explain with approprine	258	BNM172							implement sustainable technologies that minimize environmental
261 BC1733 Major Elective – 1 (b) Nursery and Gardening Image: Constraint of the present of the	259	BC1731	Major Core III - Archegoniate						
Image: Constraint of the second sector second second second second second second second second second sector sector sector sector sector sector sector sector sector second sector second sector sector second sector second se	260	BC1732	Major Elective – I (a) Herbal Botany					\bigtriangledown	
263 BC17P3 Major Practical Paper - III Archegoniate Image: Constraint of the practical paper - III Archegoniate Image: Constraint of the practical paper - III Archegoniate 264 BA1731 Allied II - Theory : Taxonomy of Angiosperms and Plant Physiology Image: Constraint of the practical paper - III Archegoniate Image: Constraint of the physiology 265 BC17S1 Self Learning Course - Plant Resource Utilization Image: Constraint of the physiology Image: Constraint of the physiology 266 BC1741 Major Core IV - Plant Ecology and Phytogeography Image: Constraint of the relationships between the different ecological components in ecosystem. 267 BC1742 Major - Elective II (c) Biodiversity and Human Welfare Image: Constraint of the relationship between the different ecological components in ecosystem. 268 BC1743 Major - Elective II (c) Biodiversity and Human Welfare Image: Constraint of the physiology. 270 BC1744 Major Practical IV - Plant Ecology and Phytogeography Image: Constraint of the physiology. Image: Constraint of the physiology. 271 BA1731 Allied II - Theory : Cell Biology and Plant Anatomy Image: Constraint of the prescribed families and explaint inclusions in plants, primary and secondary structure of plant. 272 BA17P2 Allied II - Practical: Taxonomy, Anatomy. Plant Physiology									traditional medicinal system.
Image: Constraint of the second se									lawn.
Image: Constraint of the second sec									scheme and soil fertility.
267 BC1742 Major - Elective II (a) Biological Resources Image: Components in ecosystem. 268 BC1743 Major - Elective II (b) Food Science Image: Components in ecosystem. 269 BC1744 Major - Elective II (c) Biodiversity and Human Welfare Image: Components in ecosystem. 270 BC17P4 Major Practical IV - Plant Ecology and Phytogeography Image: Components in ecosystem. Image: Components in ecosystem. 271 BA1741 Allied II – Theory : Cell Biology and Plant Anatomy Image: Components in ecosystem. Image: Components in ecosystem. 272 BA17P2 Allied II – Practical: Taxonomy, Anatomy, Plant Physiology, Cell Biology and Plant Anatomy Image: Components in ecosystem. Image: Components in ecosystem. 273 BC17S2 Self Learning Course - Algal Biotechnology Image: Components in ecosystem. Image: Components in ecosystem.	204	ВА1/31	, , , ,					L	10 learn the basic knowledge on taxonomy and plant physiology.
267 BC1742 Major - Elective II (a) Biological Resources Image: Components in ecosystem. 268 BC1743 Major - Elective II (b) Food Science Image: Components in ecosystem. 269 BC1744 Major - Elective II (c) Biodiversity and Human Welfare Image: Components in ecosystem. 270 BC17P4 Major Practical IV - Plant Ecology and Phytogeography Image: Components in ecosystem. Image: Components in ecosystem. 271 BA1741 Allied II – Theory : Cell Biology and Plant Anatomy Image: Components in ecosystem. Image: Components in ecosystem. 272 BA17P2 Allied II – Practical: Taxonomy, Anatomy, Plant Physiology, Cell Biology and Plant Anatomy Image: Components in ecosystem. Image: Components in ecosystem. 273 BC17S2 Self Learning Course - Algal Biotechnology Image: Components in ecosystem. Image: Components in ecosystem.	265	BC17S1	Self Learning Course - Plant Resource Utilization		\bigtriangledown		\bigtriangledown		To study the importance of plant resources.
Image: constraint of the second sec			Major Core IV – Plant Ecology and Phytogeography		Ø				To understand the relationships between the different ecological components in ecosystem.
269 BC1744 Major - Elective II (c) Biodiversity and Human Welfare Image: Constraint of the structure of the structure of the structure and functions of living and non - living inclusions in plants, primary and secondary structure of plant. 270 BA1741 Allied II - Theory : Cell Biology and Plant Anatomy Image: Constraint of the structure and functions of living and non - living inclusions in plants, primary and secondary structure of plant. 272 BA17P2 Allied II - Practical: Taxonomy, Anatomy, Plant Physiology, Cell Biology and Plant Anatomy Image: Constraint of the prescribed families and explain with appropriate diagrams. 273 BC17S2 Self Learning Course - Algal Biotechnology Image: Constraint of the prescribed families and aware to	267	BC1742	5				Ø		
269 BC1744 Major - Elective II (c) Biodiversity and Human Welfare Image: Constraint of the structure of the structure of the structure and functions of living and non - living inclusions in plants, primary and secondary structure of plant. 270 BA17P4 Allied II - Theory : Cell Biology and Plant Anatomy Image: Constraint of the structure and functions of living and non - living inclusions in plants, primary and secondary structure of plant. 271 BA17P2 Allied II - Practical: Taxonomy, Anatomy, Plant Physiology, Cell Biology and Plant Anatomy Image: Constraint of the prescribed families and explain with appropriate diagrams. 273 BC17S2 Self Learning Course - Algal Biotechnology Image: Constraint of the prescribed families and aware to	268	BC1743	Major - Elective II (b) Food Science		1		\bigtriangledown		To know about the balanced diet and its importance.
Image: Constraint of the constra	269				_		Ø		
272 BA17P2 Allied II – Practical: Taxonomy, Anatomy, Plant Physiology, Cell Biology and Plant Anatomy Image: Comparison of the prescribed families and explain with appropriate diagrams. 273 BC17S2 Self Learning Course - Algal Biotechnology Image: Comparison of the prescribed families and explain with appropriate diagrams.									Halophytes.
Physiology, Cell Biology and Plant Anatomy with appropriate diagrams. 273 BC17S2 Self Learning Course - Algal Biotechnology Image: Course - Algal Biotechnology Image: Course - Algal Biotechnology	271	BA1741	Allied II – Theory : Cell Biology and Plant Anatomy		\bigtriangledown				
	272		Physiology, Cell Biology and Plant Anatomy				_		with appropriate diagrams.
	273	BC17S2	Self Learning Course - Algal Biotechnology		\square				

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274	BC1751	Major Core V - Taxonomy and Economic Botany		\bigtriangledown			\bigtriangledown	To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
275	BC1752	Major Core VI - Biochemistry and Biophysics						To learn the emerging field of biochemistry, biophysics and
275	BC1732	Major Core VI - Biochemistry and Biophysics		⊻				principles of bioenergetics.
276	BC1753	Major Core VII - Microbiology and Plant Pathology						To provide the students with the comprehensive understanding in microbiology and plant pathology.
277	BC1754	Major - Elective III (a) Horticulture and Plant Breeding		M				To perform horticultural practices.
278	BC1755	Major - Elective III (b) Forestry		Ø				To understand a broad knowledge about the forest and forest
279	BC1756	Major - Elective III (c) Biological Techniques						products. To study principle, working mechanism and uses of instruments used in biology.
280	BC17P5	Major Practical V - Taxonomy and Economic Botany & Biochemistry and Biophysics		\square				To identify the plant specimens.
281	BSK175	Skill Based Course (*SBC) – Floriculture						To develop flower garden around the home and office to reduce of stress related depression of the livelihood.
282	BC1761	Major Core VIII - Genetics, Biostatistics and Bioinformatics						To generate logical interpretations and conclusions from graphs, models, and data of scientific research.
283	BC1762	Major Core IX - Biotechnology and Molecular biology						To evaluate and use biological information effectively, ethically, and legally.
284	BC1763	Major Core X - Plant Physiology and Metabolism		\bigtriangledown				To integrate and interconnect plant physiological knowledge in agriculture, forestry, environmental science and genetics.
285	BC1764	Major - Elective III (a) - Marine Botany					1	To recognize the marine pollution and conservation methods.
286	BC1765	Major - Elective III (b) - Organic Farming		Ø		\bigtriangledown		To understand the need and generating knowledge and skill on
207	DOIGC	Maine Election III (a) En (-	\square				various organic farming practices.
287	BC1766	Major - Elective III (c) - Ecotourism				${\bf r}$		To highlight the need for sustainable tourism.
288	BC17P6	Major Practical VI - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology		$\mathbf{\Sigma}$				To demonstrate experiments and interpret experimental data using biostatistics.
289	BC17P7	Major Practical VII - Microbiology and Plant Pathology &Plant Physiology and Metabolism		N				To demonstrate and interpret the results of physiology and microbiology experiments.
290	PB1711	Core I - Plant Diversity I - Algae, Fungi, Lichens and Bryophytes		\bigtriangledown				To gain adequate knowledge on comparative account of various lower group flora.
291	PB1712	Core II - Microbiology, Immunology and Plant Pathology		\bigtriangledown				To understand the microbial world.
292	PB1713	Core III - Developmental Botany					1	To get brief knowledge on plant breeding techniques.
293	PB1714	Elective I - (a) Marine Biology		Ø			1	To understand the marine environment.
294	PB1714	Elective I - (b) Cell Biology		Ā				To understand the basic concepts of organic farming.
295	PB17P1	Practical I - Plant Diversity I – Algae, Fungi and Bryophytes; Microbiology, Immunology and Plant Pathology; Developmental Botany						To understand the evolutionary tendency of Thallophytes.
296	PB1721	Core IV - Plant Diversity II - Pteridophyta, Gymnosperms and Palaeobotany						To understand the research and its methodologies.
297	PB1723	Core VI - Biochemistry and Biophysics		R				To have basic knowledge about herbals.
298	PB1724	Elective I - (a) Medicinal Botany and Pharmacognosy		Ā				To understand the process of evolution.
299	PB1724	Elective I - (b) Medicinal Plants and Ethnobotany		Ø			$\overline{\square}$	To identify microbes.
300	PB17P2	Practical II - Plant Diversity – II - Pteridophya, Gymnosperms and Paleobotany; Research Methodology and Biochemistry and Biophysics						To differentiate non flowering plants.
301	PB1731	Core VII - Taxonomy of Angiosperms and Economic Botany						To get knowledge of modern trends in taxonomy of angiosperms.
302	PB1732	Core VIII - Genetics and Molecular Biology		\square			1	To acquire knowledge in laboratory techniques.
303	PB1733	Elective III -(a) Forestry					1	To learn the forest management methods.
304	PB1734	Elective III -(b) Horticulture and Plant Breeding (Elective III)		$\overline{\triangleleft}$				To study the horticultural techniques.
305	PB17P3	Practical III - Taxonomy of Angiosperms and Economic Botany, Genetics and Molecular Biology						To learn about the taxonomical terminology, morphology, structure and functions of various parts of plants.
306	PB17S1	Self Learning Course - Biology for competitive exam – I						To get exposure to write competitive exams.
307	PB1741	Core IX - Plant Physiology and Metabolism Core X - Environment and Conservation Biology		$\overline{\mathbf{N}}$				To have broad knowledge about plant physiology.
308 309	PB1742	Core VI Arelied Distaches 1		⊻ Ø		2		To get idea about the environment. To produce value added products such as antibiotics.
	PB1743	Core XI - Applied Biotechnology	<u> </u>	N				
310 311	PB1744	Elective IV - (a) Industrial Microbiology	<u> </u>					To employ microbes in producing useful products.
111	PB17P4	Practical IV - Plant Physiology and Metabolism, Environment and Conservation Biology and Applied		\square				To understand the methodology involved in environment and conservation biology.
511		Biotechnology						