

Department of Botany										
1.1.2 Details of courses offered by the institution that focus on employability/ entrepreneurship/ skill development during the										
S.No.	Name of the Course	Course Code	Em	Activities Focusing on Employability	En	Activities Focusing on Entrepreneurship	SD	Activities Focusing on Skill	Outcome	
2023-2024										
1	Core Course I : Plant Diversity - I Algae	BU23ICCI	<input checked="" type="checkbox"/>	Algae collection from sea and identification of algae	<input checked="" type="checkbox"/>	Chart presentation on algae used in biofuel production	<input checked="" type="checkbox"/>	Role play on different types of 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	Core Lab Course I : Plant Diversity - I Algae	BU231CP1	<input checked="" type="checkbox"/>	Permanent Slides	<input checked="" type="checkbox"/>	Demo on Sectioning, staining and mounting	<input checked="" type="checkbox"/>	Microscopical observation of algae	To develop a practical understanding of the diversity, morphology, and ecological significance of algae, fungi,	
3	Elective Course I : Allied Botany I	BU231EC1	<input checked="" type="checkbox"/>	Preparation of agar from sea weeds	<input checked="" type="checkbox"/>	Visiting nearby ocean for algal identification	<input checked="" type="checkbox"/>	Micropreparation and identification of algae	To provide a foundational understanding and identification of the	
4	Elective Lab Course I : Allied Botany Practical	BU231EP1	<input checked="" type="checkbox"/>	Algal visit to Idinthakarai coast	<input checked="" type="checkbox"/>	Micropreparation and identification of lower group of organisms	<input checked="" type="checkbox"/>	Preparation of algal herbarium	To cultivate expertise in gardening and floriculture techniques for creating and managing aesthetically pleasing and sustainable green spaces.	
5	Non-Major Elective NME : Nursery and Landscaping	BU231NM1					<input checked="" type="checkbox"/>	Demonstration on Gardening Techniques	To have detailed study on primitive organisms.	
6	Foundation Course: Basics of Botany	BU231FC1	<input checked="" type="checkbox"/>	Chart Preparation on Plant Modification	<input checked="" type="checkbox"/>	Model making on plant cell	<input checked="" type="checkbox"/>	Demo on different types of plant cell identification	To equip students with the knowledge and skills to harness biofertilizers, biofuels, and biopesticides for sustainable and eco-friendly agricultural	
7	Core Course II : Plant Diversity I I- Fungi, Bacteria, Viruses, Plant Pathology and Lichens	BU232CC1	<input checked="" type="checkbox"/>	Exposure visit to Biotech Laboratory and Krishi kendra, Kanyakumri	<input checked="" type="checkbox"/>	Exposure visit to microbiology lab, Inbiotics, Nagercoil	<input checked="" type="checkbox"/>	Group discussion on pros and cons of microbes	To understand microbes, fungi and lichens and appreciate its agricultural and pharmaceutical applications.	
8	Core Lab Course II : Plant Diversity II- Fungi, Bacteria, Viruses, Plant Pathology and Lichens – Practical -II	BU232CP1	<input checked="" type="checkbox"/>	Identification of microfungi by LPCB method	<input checked="" type="checkbox"/>	Demo on gram staining techniques	<input checked="" type="checkbox"/>	Identification of diseased plant leaves	To develop practical skills for culturing and cultivation of fungi.	
9	Elective Course II : Allied Botany -II	BU232EC1	<input checked="" type="checkbox"/>	Role play on Algae	<input checked="" type="checkbox"/>	Preparation of Permanent slide	<input checked="" type="checkbox"/>	Micropreparation and identification of fungi	To understand the fundamental concepts of plant anatomy and	

10	Elective Lab Course II : Allied Botany Practical	BU232EP1	<input checked="" type="checkbox"/>	Demo on identification of microfungi	<input checked="" type="checkbox"/>	Microscopical observation on algae and fungi	<input checked="" type="checkbox"/>	Model making on Lichen diversity	To study the classical taxonomy with reference to different parameters and fundamental concepts of plant anatomy
11	Non Major Elective NME II : Mushroom Cultivation	BU232NM1	<input checked="" type="checkbox"/>	Hands on training on Mushroom cultivation	<input checked="" type="checkbox"/>	Production of mushroom products	<input checked="" type="checkbox"/>	Spawn preparation	To explain about various types of food technologies associated with mushroom industry.
12	Skill Enhancement Course SEC I : Botanical Garden and Landscaping	BU232SE1	<input checked="" type="checkbox"/>	Training on computer based Landscape designing	<input checked="" type="checkbox"/>	Visit to Botanical Garden	<input checked="" type="checkbox"/>	Seed ball preparation and sowing	To inculcate entrepreneurial skills in students for creative landscaping design using CAD software.
13	Major Core III - Archegoniate	BC2031	<input checked="" type="checkbox"/>	Seminar by students on Hydrophytes			<input checked="" type="checkbox"/>	Role play on Halophytes	To enrich with basics of Botany.
14	Major Elective -I (a) Herbal Botany	BC2032	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
15	Major Elective - I (b) Nursery and Gardening	BC2033	<input checked="" type="checkbox"/>	Demo on horticultural techniques	<input checked="" type="checkbox"/>	Propagation of hybrid plants	<input checked="" type="checkbox"/>	Hands on training on layering techniques	To develop skills to become employable as professionals in traditional medicinal system.
16	Major Elective - I (c) Agricultural Botany	BC2034	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand making and maintenance of gardening and lawn.
17	Allied II - Theory : Plant Diversity - I (Algae, Fungi, Bryophyta and Pteridophyta)	BA2031	<input checked="" type="checkbox"/>	Display of cereals, millets and pulses and its food products	<input checked="" type="checkbox"/>	Seminar presentation about biocontrol agents	<input checked="" type="checkbox"/>	Assignment on Fungi and lichens	To understand agricultural practices, seed technology; cropping scheme and soil fertility.
18	Self Learning Course : Plant Resource Utilization	BC20S1	<input checked="" type="checkbox"/>	Visit to tea processing factory, Ooty	<input checked="" type="checkbox"/>	Exhibit the value added products of spirulina	<input checked="" type="checkbox"/>	Assignment on Plant products	To study the importance of plant resources.
19	Major Core IV - Plant Ecology and Phytogeography	BC2041	<input checked="" type="checkbox"/>	Field Visit to pond ecosystem			<input checked="" type="checkbox"/>	Power point presentation on hydrophytes	To learn the basic knowledge soil, water, vegetation and ecological groups.
20	Major Elective - II (a) Biological Resources	BC2042	<input checked="" type="checkbox"/>	Mushroom cultivation	<input checked="" type="checkbox"/>	Seminar on production of useful algal products	<input checked="" type="checkbox"/>	Assignment on Plant resources from plants	To understand the cultivation and production of biofertilizers, microbial fertilizers, biofertilizers and
21	Elective - II (b) Food Science	BC2043	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To learn about the importance, constituents and health practices of food
22	Elective – II (c) Biodiversity and Human Welfare	BC2044	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To learn about the importance of biodiversity and aware to conserve the biodiversity.

23	Allied II - Theory : Plant Diversity - II (Gymnosperms, Angiosperms and Plant Physiology)	BA2041	<input checked="" type="checkbox"/>	Flash board preparation on Plant Anatomy			<input checked="" type="checkbox"/>	Chart Preparation of Medicinal plants	To understand the structure and function of basic organelles of plant cells and internal structure of plant parts.
24	Major Practical Paper - II Archegoniate & Plant Ecology and Phytogeography	BC20P2					<input checked="" type="checkbox"/>	Anatomical study of xerophytes using sectioning	To learn the sectioning for microscopic observation.
25	Allied II - Practical : Plant Diversity I & II and Plant Physiology	BA20P2	<input checked="" type="checkbox"/>	Identify the cell organelles through microscope			<input checked="" type="checkbox"/>	Demonstration on Physiology experimental setup	To learn about physiology experimental set up.
26	Self Learning Course : Algal Biotechnology	BC20S2	<input checked="" type="checkbox"/>	Algae visit to Kovalam seashore	<input checked="" type="checkbox"/>	Book review on Algal Biotechnology	<input checked="" type="checkbox"/>	Culture media preparation for algae	To learn about the importance of algal diversity and aware to conserve the
27	Major Core V - Taxonomy of Angiosperms and Economic Botany	BC2051	<input checked="" type="checkbox"/>	Taxonomy field visit to Mukkadal dam			<input checked="" type="checkbox"/>	Herbarium Preparation	To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
28	Major Core VI - Biochemistry and Biophysics	BC2052	<input checked="" type="checkbox"/>	Model making on Lipids and Cholesterol			<input checked="" type="checkbox"/>	Display of models on Metabolic pathways	To learn the emerging field of biophysics and principles of bioenergetics.
29	Major Core VII - Microbiology and Plant Pathology	BC2053	<input checked="" type="checkbox"/>	Visit to dairy industry, Aavin Milk Processing Unit	<input checked="" type="checkbox"/>	Assignment on Plant diseases	<input checked="" type="checkbox"/>	Preparation of dairy products	To provide the students with the comprehensive understanding and appreciation for the diversity and significance of microbes on planet
30	Major - Elective III - Research Project	BC20PR					<input checked="" type="checkbox"/>	Model making on types of research	To learn the steps to write a research project.
31	Major Core VIII - Genetics, Biostatistics and Bioinformatics	BC2061					<input checked="" type="checkbox"/>	Display of models - Transgenic plants	To generate biological interpretations and conclusions from data of scientific research.
32	Major Core IX - Biotechnology and Molecular Biology	BC2062	<input checked="" type="checkbox"/>	Group Discussion on Cutting and Joining of genes	<input checked="" type="checkbox"/>	Assignment on Patent and IPR	<input checked="" type="checkbox"/>	Visit to CMST lab, Rajakamangalam	To develop skills to become employable as professionals in Biotechnology Industries.
33	Major Core X - Plant Physiology and Metabolism	BC2063	<input checked="" type="checkbox"/>	Group Discussion on Absorption	<input checked="" type="checkbox"/>	Seminars by students on Guttation	<input checked="" type="checkbox"/>	Demo on simple experiments in physiology	To comprehend the fundamental concepts of plant physiology.
34	Major - Elective IV (a) Marine Botany	BC2064	<input checked="" type="checkbox"/>	Visit to marine habitat , Manakudy	<input checked="" type="checkbox"/>	Collection of specimens from marine habitat	<input checked="" type="checkbox"/>	Model making on marine ecosystem	To understand the diversity of marine organisms.

35	Major - Elective IV (b) Organic Farming	BC2065	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To empower the employment opportunity of youth at village level in organic market as organic growers, stakeholders, and entrepreneurs.
36	Major- Elective IV (c) Ecotourism	BC2066	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To highlight the need for sustainable tourism.
37	Major Practical III - Taxonomy and Economic Botany & Biochemistry and Biophysics	BC20P3					<input checked="" type="checkbox"/>	Taxonomy key and herbarium preparation	To understand and identify the locally available common plants and performing experiments in Biochemistry.
38	Major Practical IV - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology	BC20P4					<input checked="" type="checkbox"/>	Analysis of random sampling in botanical garden	To interpret experimental data using biostatistics.
39	Major Practical V - Microbiology and Plant Pathology & Plant Physiology and Metabolism	BC20P5					<input checked="" type="checkbox"/>	Preparation of different bacterial culture media	To demonstrate and interpret the results to microbiology and physiology experiments.
40	Skill Enhancement Course (SEC) - Global Environmental Issues	SEC203					<input checked="" type="checkbox"/>	Album preparation on Pollution	To acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment.
41	Core Course I : Plant Diversity - I Algae, Fungi, Lichens & Bryophytes	BP231CC1	<input checked="" type="checkbox"/>	Algae Visit to Idinthakarai coast	<input checked="" type="checkbox"/>	Group Discussion on Lichens	<input checked="" type="checkbox"/>	Identify the primitive group of plants	To gain adequate knowledge on the comparative accounts of various algal.
42	Core Course II : Plant Diversity - II Pteridophyta, Gymnosperms and Palaeobotany	BP231CC2	<input checked="" type="checkbox"/>	Seminar on Pteridophytes	<input checked="" type="checkbox"/>	Grouping of plants in different families	<input checked="" type="checkbox"/>	Identification of fossils through microscope	To get a brief knowledge of plant breeding techniques.
43	Elective Course I : a) Microbiology, Immunology and Plant Pathology	BP231EC1	<input checked="" type="checkbox"/>	Microbiology lab visit to Inbiotics	<input checked="" type="checkbox"/>	Assignment on Sterilization	<input checked="" type="checkbox"/>	Demonstration on Motility test	To understand the microbial world.

44	Elective Course I : b) Conservation of natural resources and policies	BP231EC2	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the marine environs.
45	Elective Course I : c) Mushroom cultivation	BP231EC3	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand basic concepts of organic farming.
46	Elective Course II : a) Ethanobotany, Naturopathy and Traditional Health care	BP231EC4	<input checked="" type="checkbox"/>	Nature Walk to Kallikesham			<input checked="" type="checkbox"/>	Formulation of herbal products	To understand the research and its methodologies.
47	Elective Course II : b) Algal Technology	BP231EC5	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the evolutionary tendency of Thallophytes.
48	Elective Course II : c) Herbal Technology	BP231EC6	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the basic concepts of cell and cell functions.
49	Core Lab Course I: Laboratory Course - I : Covering Core Papers - I & II	BP231CP1	<input checked="" type="checkbox"/>	Identification of primitive group of plants	<input checked="" type="checkbox"/>	Preparation of permanent slide	<input checked="" type="checkbox"/>	Demo on fungal culture	To have detailed study on primitive organisms.
50	Core Course III : Taxonomy of Angiosperms and Economic Botany	BP232CC1	<input checked="" type="checkbox"/>	Taxonomy field Visit, Chunkankadai Hills	<input checked="" type="checkbox"/>	Exhibition of economical important plant products	<input checked="" type="checkbox"/>	Preparation of taxonomic keys	To explain the principles of taxonomy. summarize the taxonomic hierarchy. define binomial nomenclature.
51	Core Course IV: Plant Anatomy and Embryology of Angiosperms	BP232CC2	<input checked="" type="checkbox"/>	Permanent slide preparation	<input checked="" type="checkbox"/>	Microscopic observation of pollen	<input checked="" type="checkbox"/>	Group discussion on maceration of Wood anatomy	To understand the various concepts of plant development and reproduction.
52	Core Course V: Ecology, Phytogeography, Conservation Biology and Intellectual Property Rights	BP232CC3	<input checked="" type="checkbox"/>	Model making on different ecosystem	<input checked="" type="checkbox"/>	Nature walk on Kallikesam	<input checked="" type="checkbox"/>	Quadrat studies in the field	To analyze insight into the vegetation types, species interaction and their importance and the factors influencing the environmental conditions.
53	Core Lab Course II : Lab Course (for Core III, IV & V)	BP232CP1	<input checked="" type="checkbox"/>	Dissection of flowers	<input checked="" type="checkbox"/>	Quadrat analysis in botanical garden	<input checked="" type="checkbox"/>	Demonstration on Ovule types	To understand the recent advances in plant morphological and floral characteristics.
54	Elective Course III : a) Biostatistics	BP232EC1	<input checked="" type="checkbox"/>	Data collect in blossom nursery	<input checked="" type="checkbox"/>	Seminar on correlation	<input checked="" type="checkbox"/>	Group discussion on data analysis of flowering plants in	To develop their competence in hypothesis testing and interpretation.

55	Elective Course III: b) Intellectual Property Rights	BP232EC2	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the differences of Property and Assets and Various categories of Intellectual Creativity.
56	Elective Course III : c) Applied bioinformatics	BP232EC3	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To apply and explain the application of bioinformatic tools.
57	Elective Course IV : a) Research methodology, computer applications & bioinformatics	BP232EC4	<input checked="" type="checkbox"/>	Review of literature in College Library	<input checked="" type="checkbox"/>	Seminar on fundamentals of networking	<input checked="" type="checkbox"/>	Demonstration on different instruments in the laboratory	To understand the concept of pairwise alignment of DNA sequences using algorithms.
58	Elective Course IV : b) Medicinal Botany	BP232EC5	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To develop new strategies to enhance growth and quality check of medicinal herbs considering the practical issues
59	Elective Course IV : c) Phytochemistry	BP232EC6	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To know the methods of screening of secondary metabolites for various
60	Skill Enhancement Course I : Nursery and Gardening	BP232SE1	<input checked="" type="checkbox"/>	Demonstration on air layering	<input checked="" type="checkbox"/>	Cultivation of organic vegetables	<input checked="" type="checkbox"/>	Demonstration on Nursery techniques	To develop social responsible citizens.
61	Core VII - Taxonomy of Angiosperms	PB2031	<input checked="" type="checkbox"/>	Plant Identification			<input checked="" type="checkbox"/>	Taxonomy field visit, Herbarium	To get knowledge of modern trends in taxonomy of Angiosperms.
62	Core VIII – Genetics and Molecular Biology	PB2032	<input checked="" type="checkbox"/>	Demonstration on PCR			<input checked="" type="checkbox"/>	Lab visit to Inbiotics	To acquire knowledge in laboratory techniques.
63	Elective III – (a) Horticulture	PB2033					<input checked="" type="checkbox"/>		To study the horticultural techniques.
64	Elective III – (b) Forestry	PB2034	<input checked="" type="checkbox"/>	Seminar on Turpentine production			<input checked="" type="checkbox"/>	Assignment on techniques employed	To learn the forest management methods.
65	Research Project	PB20PR					<input checked="" type="checkbox"/>	Performing life science experiments	To practice research.
66	Self Learning Course - Biology for competitive exam – I	PB20S1	<input checked="" type="checkbox"/>	Preparation of question bank			<input checked="" type="checkbox"/>	Book reference on Biological Sciences	To get exposure to write competitive exams.
67	Core IX - Plant Physiology	PB2041	<input checked="" type="checkbox"/>	Demonstration on transpiration	<input checked="" type="checkbox"/>	Seminar using charts on Respiration	<input checked="" type="checkbox"/>	Seminar using charts on Seed germination	To get knowledge about plant physiological aspects.
68	Core X – Plant Ecology and Phytogeography	PB2042	<input checked="" type="checkbox"/>	Model making on Ozone Depletion			<input checked="" type="checkbox"/>	Simple experiments in ecology	To get idea about the environment.
69	Core XI – Biotechnology & Bioinformatics	PB2043					<input checked="" type="checkbox"/>	Model Preparation on In vitro techniques	To employ microbes in producing useful products.

70	Elective IV – (a) Phytochemistry and Pharmacognosy	PB2044					<input checked="" type="checkbox"/>		To understand the bioinformatics tool in the field of Biology.
71	Elective IV – (b) Entrepreneurial Botany	PB2045					<input checked="" type="checkbox"/>	Hands on training on Mushroom cultivation	To understand the cultivation techniques of mushroom.
72	Practical III - Taxonomy of Angiosperms & Genetics and Molecular Biology.	PB20P3	<input checked="" type="checkbox"/>	Field Visit to Mukkadai			<input checked="" type="checkbox"/>	Preparation of taxonomic keys	To learn about the taxonomical terminology, morphology, structure and functions of various parts of plants.
73	Practical IV - Plant Physiology, Plant Ecology & Phytogeography and Biotechnology & Bioinformatics	PB20P4	<input checked="" type="checkbox"/>	Hands on training on physiology setup			<input checked="" type="checkbox"/>	Simple experiment in physiology	To understand the methodology involved in environment and conservation biology.
74	Self Learning Course - Biology for competitive exam – II	PB20S2			<input checked="" type="checkbox"/>	Book review on Biological Sciences	<input checked="" type="checkbox"/>	Preparation of MCQ	To understand the basics of life values.

**2022-2023**

75	Major Core I - Algae, Fungi and Lichens	BC2011	<input checked="" type="checkbox"/>	Charts and Models on Algae	<input checked="" type="checkbox"/>	Algae used in biofuel production on Chart	<input checked="" type="checkbox"/>	Assignment on Usnea	To develop a deep comprehension of the diversity, biology, and ecological roles of major algae, fungi, and lichens for ecological and applied knowledge.
76	Allied I - Chemistry of Life	BA2011	<input checked="" type="checkbox"/>	Chart preparation on Carbohydrates	<input checked="" type="checkbox"/>	Model making on opening and closing of stomata	<input checked="" type="checkbox"/>	Chart preparation on Nucleus	To provide a foundational understanding of the fundamental chemical principles underlying
77	Non Major Elective NME I - Gardening and Floriculture (NMEC)	BNM201			<input checked="" type="checkbox"/>	Assignment on Carbohydrates	<input checked="" type="checkbox"/>	Chart preparation on different types of lawn	To cultivate expertise in gardening and floriculture techniques for creating and managing aesthetically pleasing and sustainable green spaces.
78	Major Core II - Plant Anatomy and Developmental Botany	BC2021	<input checked="" type="checkbox"/>	Chart preparation on secondary thickening of stem	<input checked="" type="checkbox"/>	Assignment on secondary Sectioning of root	<input checked="" type="checkbox"/>	Assignment on Embryogenesis	To foster a comprehensive understanding of plant anatomy and developmental processes to elucidate plant growth and structure.

79	Practical I -Algae, Fungi ,Lichens and Plant Anatomy and Developmental Botany	BC20P1	<input checked="" type="checkbox"/>	Microscopical observation of plant diversity	<input checked="" type="checkbox"/>	Assignment on Economic importance of fungi	<input checked="" type="checkbox"/>	Permanent slide preparation of periderm	To develop hands-on expertise in observing and analyzing plant tissues and structures to comprehend their growth and development.
80	Allied I - Theory : - Taxonomy of Angiosperms and Herbal Technology	BA2021	<input checked="" type="checkbox"/>	Group Discussion on Cappariadaceae	<input checked="" type="checkbox"/>	Book Review on Taxonomy	<input checked="" type="checkbox"/>	Assignment on Lamiaceae	To cultivate expertise in angiosperm classification and herbal technology for informed plant identification and utilization.
81	Allied Practical I - Chemistry of Life and Taxonomy of Angiosperms and Herbal Technology	BA20P1	<input checked="" type="checkbox"/>	Identification of plants with respect to its families			<input checked="" type="checkbox"/>	Chart preparation on structure of Carbohydrates	To equip students with the expertise to classify angiosperms and apply herbal technology for diverse practical applications.
82	Non Major Elective NME II - Biofertilizers, Biofuels and Biopesticides (NMEC)	BNM202	<input checked="" type="checkbox"/>	Guest Lecture on “Future Line Biotechnology”	<input checked="" type="checkbox"/>	Endowment Lecture on “Biosensors”	<input checked="" type="checkbox"/>	Assignment on Biofertilizers	To equip the students with the knowledge and skills to harness biofertilizers, biofuels, and biopesticides for sustainable and eco-friendly agricultural and environmental
83	Major Core III - Archegoniate	BC2031	<input checked="" type="checkbox"/>	Seminar on Pinus			<input checked="" type="checkbox"/>	Chart Display on Marsilea	To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
84	Major Elective -I (a) Herbal Botany	BC2032	<input checked="" type="checkbox"/>	Herbal Shikakkai powder preparation	<input checked="" type="checkbox"/>	Identification of ethnomedicinal plants	<input checked="" type="checkbox"/>	Local Field visit to medicinal plant	To develop skills to become employable as professionals in traditional medicinal
85	Major Elective - I (b) Nursery and Gardening	BC2033					<input checked="" type="checkbox"/>		To understand making and maintenance of gardening and lawn.
86	Major Elective - I (c) Agricultural Botany	BC2034					<input checked="" type="checkbox"/>		To understand agricultural practices, seed technology, cropping scheme and
87	Allied II - Theory : Plant Diversity - I (Algae, Fungi, Bryophyta and Pteridophyta)	BA2031	<input checked="" type="checkbox"/>	Live specimen display in Rutaceae			<input checked="" type="checkbox"/>	Seminar on Mechanism of photosynthesis	To learn the basic knowledge taxonomy and plant physiology.
88	Self Learning Course : Plant Resource Utilization	BC20S1	<input checked="" type="checkbox"/>	Preparation of MCQ	<input checked="" type="checkbox"/>	Self preparatory notes	<input checked="" type="checkbox"/>	Preparation of Question bank	To study the importance of plant resources.
89	Major Core IV - Plant Ecology and Phytogeography	BC2041	<input checked="" type="checkbox"/>	Field Visit to nearby Pond Ecosystem			<input checked="" type="checkbox"/>	Power point presentation on Hydrophytes	To learn the basic knowledge soil, water, vegetation and ecological groups.



90	Major Elective - II (a) Biological Resources	BC2042	<input checked="" type="checkbox"/>	Mushroom cultivation	<input checked="" type="checkbox"/>	Seminar on Spirulina cultivation	<input checked="" type="checkbox"/>	Assignment on Plant resources	To understand the cultivation and production of biofertilizers, microbial fertilizers, biofertilizers and
91	Elective - II (b) Food Science	BC2043	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To learn about the importance, constituents and health practices of food
92	Elective – II (c) Biodiversity and Human Welfare	BC2044	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To learn about the importance of biodiversity and aware to conserve the biodiversity.
93	Allied II - Theory : Plant Diversity - II (Gymnosperms, Angiosperms and Plant Physiology)	BA2041	<input checked="" type="checkbox"/>	Flash board preparation on Plant Anatomy			<input checked="" type="checkbox"/>	Assignment on Fossils	To understand the structure and function of basic organelles of plant cells and internal structure of plant parts.
94	Major Practical Paper - II Archegoniate & Plant Ecology and Phytogeography	BC20P2					<input checked="" type="checkbox"/>	Anatomical study of halophytes using sectioning	To learn the sectioning for microscopic observation.
95	Allied II - Practical : Plant Diversity I & II and Plant Physiology	BA20P2	<input checked="" type="checkbox"/>	Identify the cell organelles through microscope			<input checked="" type="checkbox"/>	Demonstration - Physiology experimental setup	To learn about physiology experimental set up.
96	Self Learning Course : Algal Biotechnology	BC20S2	<input checked="" type="checkbox"/>	Self preparatory notes	<input checked="" type="checkbox"/>	Preparation of question bank	<input checked="" type="checkbox"/>	Preparation of mind map	To learn about the importance of algal diversity and aware to conserve the
97	Major Core V - Taxonomy of Angiosperms and Economic Botany	BC2051	<input checked="" type="checkbox"/>	Taxonomy field visit			<input checked="" type="checkbox"/>	Herbarium preparation	To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
98	Major Core VI - Biochemistry and Biophysics	BC2052	<input checked="" type="checkbox"/>	Diapay of models on Metabolic cycles			<input checked="" type="checkbox"/>	Role play on Metabolic cycles	To learn the emerging field of biophysics and principles of bioenergetics.
99	Major Core VII - Microbiology and Plant Pathology	BC2053	<input checked="" type="checkbox"/>	Pure culture Techniques	<input checked="" type="checkbox"/>	Herbarium showing plant diseases	<input checked="" type="checkbox"/>	Identification of plant diseases	To provide the students with the comprehensive understanding and appreciation for the diversity and significance of microbes on planet
100	Major - Elective III - Research Project	BC20PR					<input checked="" type="checkbox"/>	Writing of research report	To practice research.
101	Major Core VIII - Genetics, Biostatistics and Bioinformatics	BC2061	<input checked="" type="checkbox"/>	Chart making on Mendel's law			<input checked="" type="checkbox"/>	Display of models on Transgenic plants	To generate biological interpretations and conclusions from data of scientific research.

102	Major Core IX - Biotechnology and Molecular Biology	BC2062	<input checked="" type="checkbox"/>	Demonstration on Molecular instruments	<input checked="" type="checkbox"/>	Visit to CMST lab, Rajakamangalam	<input checked="" type="checkbox"/>	Handling of electrophoretic apparatus	To develop skills to become employable as professionals in Biotechnology Industries.
103	Major Core X - Plant Physiology and Metabolism	BC2063	<input checked="" type="checkbox"/>	Seminar on Metabolic Pathway	<input checked="" type="checkbox"/>	Seminars by students on Guttation	<input checked="" type="checkbox"/>	Demo on simple experiments in physiology	To comprehend the fundamental concepts of plant physiology.
104	Major - Elective IV (a) Marine Botany	BC2064	<input checked="" type="checkbox"/>	Visit to marine habitat, Manakudy	<input checked="" type="checkbox"/>	Collection of specimens from marine habitat	<input checked="" type="checkbox"/>	Model making on Marine ecosystem	To understand the diversity of marine organisms.
105	Major - Elective IV (b) Organic Farming	BC2065			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To empower the employment opportunity of youth at village level in organic market as organic growers, stakeholders, and entrepreneurs.
106	Major- Elective IV (c) Ecotourism	BC2066	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To highlight the need for sustainable tourism.
107	Major Practical III - Taxonomy and Economic Botany & Biochemistry and Biophysics	BC20P3					<input checked="" type="checkbox"/>	Taxonomy key and herbarium preparation	To understand and identify the locally available common plants and performing experiments in Biochemistry.
108	Major Practical IV - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology	BC20P4					<input checked="" type="checkbox"/>	Solving genetics problem	To interpret experimental data using biostatistics.
109	Major Practical V - Microbiology and Plant Pathology & Plant Physiology and Metabolism	BC20P5					<input checked="" type="checkbox"/>	Identification of microorganisms	To demonstrate and interpret the results to microbiology and physiology experiments.
110	Skill Enhancement Course (SEC) - Global Environmental Issues	SEC203					<input checked="" type="checkbox"/>	Assignment on Plastic pollution	To acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment.
111	Core I - Plant Diversity I – Algae, Fungi, Lichens and Bryophytes	PB2011	<input checked="" type="checkbox"/>	Algal herbarium preparation	<input checked="" type="checkbox"/>	Display of of different lichen species	<input checked="" type="checkbox"/>	Algal field trip to Vattakottai coast	To gain adequate knowledge on comparative account of various algal divisions.
112	Core II – Microbiology	PB2012	<input checked="" type="checkbox"/>	Identification of different MICROBES	<input checked="" type="checkbox"/>	Microbiology lab visit to CMST, Rajakamangalam	<input checked="" type="checkbox"/>	Demo on staining techniques	To understand the microbial world.

113	Core III – Plant Anatomy & Embryology	PB2013	<input checked="" type="checkbox"/>	Chart Presentation on Plant anatomy			<input checked="" type="checkbox"/>	Microscopical observation on xylem and phloem	To get brief knowledge on plant breeding techniques.
114	Elective I – (a) Marine Biology	PB2014	<input checked="" type="checkbox"/>	Model making on marine ecosystem	<input checked="" type="checkbox"/>	Group Discussion on Waves and Tides	<input checked="" type="checkbox"/>	Marine Coastal Visit to Vattakottai and	To understand the marine environs.
115	Elective I – (b) Organic Farming	PB2015	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To understand basic concepts of organic farming.
116	Core IV – Plant Diversity II - Pteridophyta, Gymnosperms and Palaeobotany	PB2021	<input checked="" type="checkbox"/>	Assignment on Marchantia and Pinus	<input checked="" type="checkbox"/>	Medicinal plant exhibition	<input checked="" type="checkbox"/>	Sectioning of pteridophytes and observation in microscope	To understand the evolutionary tendency of thallophytes.
117	Core V – Research Methodology	PB2022	<input checked="" type="checkbox"/>	Assignment on Probability			<input checked="" type="checkbox"/>	Writing of research article	To understand the research and its methodologies.
118	Core VI – Cell Biology and Biomolecules	PB2023	<input checked="" type="checkbox"/>	Commemorative Day on Hugo De Viries			<input checked="" type="checkbox"/>	Chart Preparation on Mitochondria	To understand the basic concepts of cell and cell functions.
119	Elective II – (a) Herbalism	PB2024	<input checked="" type="checkbox"/>	Hands on Training on Floral Arts Training for village Community			<input checked="" type="checkbox"/>	Exhibition on herbal products	To provide basic knowledge about herbals.
120	Elective II – (b) Evolutionary Biology	PB2025	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To understand the process of evolution.
121	Practical I - Plant Diversity I – Algae, Fungi, Lichens and Bryophytes, Microbiology and Plant Anatomy & Embryology	PB20P1	<input checked="" type="checkbox"/>	Microscopic observation of algae and fungi			<input checked="" type="checkbox"/>	Algal field trip to Vattakottai	To identify microbes in laboratory.
122	Practical II - Plant Diversity II- Pteridophyta, Gymnosperms and Palaeobotany, Research Methodology and Cell Biology and Biomolecules	PB20P2	<input checked="" type="checkbox"/>	Exhibition on medicinal plants	<input checked="" type="checkbox"/>	Debate on Merits and Demerits of Gymnosperms	<input checked="" type="checkbox"/>	Exhibition on medicinal plants	To differentiate non flowering plants.
123	Core VII - Taxonomy of Angiosperms	PB2031	<input checked="" type="checkbox"/>	Plant Identification			<input checked="" type="checkbox"/>	Taxonomy key and herbarium preparation	To get knowledge of modern trends in taxonomy of Angiosperms.

124	Core VIII – Genetics and Molecular Biology	PB2032	<input checked="" type="checkbox"/>	Chart and Model preparation on Chloroplast and			<input checked="" type="checkbox"/>	Model making on Gene transfer techniques	To acquire knowledge in laboratory techniques.
125	Elective III – (a) Horticulture	PB2033					<input checked="" type="checkbox"/>		To study the horticultural techniques.
126	Elective III – (b) Forestry	PB2034	<input checked="" type="checkbox"/>	Interactive PPT on forest organisation			<input checked="" type="checkbox"/>	Seminar on forest products	To learn about the forest management methods.
127	Research Project	PB20PR					<input checked="" type="checkbox"/>	Thesis writing	To practice research.
128	Self Learning Course - Biology for competitive exam – I	PB20S1					<input checked="" type="checkbox"/>	Preparation of short summary notes	To get awareness about social issues.
129	Core IX - Plant Physiology	PB2041	<input checked="" type="checkbox"/>	Demonstration on simple experiments of	<input checked="" type="checkbox"/>	Seminar using charts on Respiration	<input checked="" type="checkbox"/>	Demonstration on simple experiments of	To have a broad knowledge about plant physiology.
130	Core X – Plant Ecology and Phytogeography	PB2042	<input checked="" type="checkbox"/>	Ozone Day Celebration			<input checked="" type="checkbox"/>	Demonstration on Quadrat analysis	To get idea about the environment.
131	Core XI – Biotechnology & Bioinformatics	PB2043	<input checked="" type="checkbox"/>	Demonstration on tissue culture techniques			<input checked="" type="checkbox"/>	Preparation of wine	To employ microbes in producing useful products.
132	Elective IV – (a) Phytochemistry and Pharmacognosy	PB2044					<input checked="" type="checkbox"/>		To understand the bioinformatics tools in the field of Biology.
133	Elective IV – (b) Entrepreneurial Botany	PB2045	<input checked="" type="checkbox"/>	Preparation on Pnahakavvya	<input checked="" type="checkbox"/>	Exhibition on spirulina products	<input checked="" type="checkbox"/>		To understand the cultivation techniques of mushroom.
134	Practical III - Taxonomy of Angiosperms & Genetics and Molecular Biology.	PB20P3	<input checked="" type="checkbox"/>	Field Visit to Chunkankadai Hills			<input checked="" type="checkbox"/>	Preparation of taxonomic keys	To learn about the taxonomical terminology, morphology, structure and functions of various parts of plants.
135	Practical IV - Plant Physiology, Plant Ecology & Phytogeography and Biotechnology & Bioinformatics	PB20P4	<input checked="" type="checkbox"/>	Demonstration on simple experiments of physiology			<input checked="" type="checkbox"/>	Field visit to Manakudy mangroves	To understand the methodology involved in environment and conservation biology.
136	Self Learning Course - Biology for competitive exam – II	PB20S2			<input checked="" type="checkbox"/>	Book reference on Biological Sciences	<input checked="" type="checkbox"/>	Preparation of keynotes	To study basic life values.

137	Major Core I - Algae, Fungi and Lichens	BC2011	<input checked="" type="checkbox"/>	Algae visit to Vattakottai	<input checked="" type="checkbox"/>	Chart preparation on algae used in biofuel production	<input checked="" type="checkbox"/>	Assignment on Usnea	To develop a deep comprehension of the diversity, biology, and ecological roles of major algae, fungi, and lichens for ecological and applied knowledge.
138	Allied I - Chemistry of Life	BA2011	<input checked="" type="checkbox"/>	Chart presentation on Mitochondria and Chloroplast	<input checked="" type="checkbox"/>	Chart presentation on Opening and closing of stomata	<input checked="" type="checkbox"/>	Chart preparation on Nucleus	To provide a foundational understanding of the fundamental chemical principles underlying
139	Non Major Elective NME I - Gardening and Floriculture (NMEC)	BNM201			<input checked="" type="checkbox"/>	Hands on Training on Roof Top Garden	<input checked="" type="checkbox"/>	Chart presentation on different types of lawn	To cultivate expertise in gardening and floriculture techniques for creating and managing aesthetically pleasing and sustainable green spaces.
140	Major Core II - Plant Anatomy and Developmental Botany	BC2021	<input checked="" type="checkbox"/>	Assignment on Marchantia and Pinus	<input checked="" type="checkbox"/>	Chart presentation on Secondary growth of root	<input checked="" type="checkbox"/>	Assignment on Lyginopteris	To foster a comprehensive understanding of plant anatomy and developmental processes to elucidate plant growth and structure.
141	Practical I -Algae, Fungi ,Lichens and Plant Anatomy and Developmental Botany	BC20P1	<input checked="" type="checkbox"/>	Microscopical observation of algae, fungi and lichens	<input checked="" type="checkbox"/>	Book review on Lichens	<input checked="" type="checkbox"/>	Microscopic observation of algae and fungi	To develop hands-on expertise in observing and analyzing plant tissues and structures to comprehend their growth and development.
142	Allied I - Theory : - Taxonomy of Angiosperms and Herbal Technology	BA2021	<input checked="" type="checkbox"/>	Group Discussion on Cappariadaceae	<input checked="" type="checkbox"/>	Book Review on A text book on Taxonomy	<input checked="" type="checkbox"/>	Herbarium preparation	To cultivate expertise in angiosperm classification and herbal technology for informed plant identification and utilization.
143	Allied Practical I - Chemistry of Life and Taxonomy of Angiosperms and Herbal Technology	BA20P1	<input checked="" type="checkbox"/>	Exhibition on Locally available Medicinal Plants			<input checked="" type="checkbox"/>	Identification of plants with respect to its families	To equip students with the expertise to classify angiosperms and apply herbal technology for diverse practical applications.
144	Non Major Elective NME II - Biofertilizers, Biofuels and Biopesticides (NMEC)	BNM202	<input checked="" type="checkbox"/>	Guest Lecture on “Future Line Biotechnology”	<input checked="" type="checkbox"/>	Endowment Lecture on “Biosensors”	<input checked="" type="checkbox"/>	Group discussion on Biofertilizers	To equip students with the knowledge and skills to harness biofertilizers, biofuels, and biopesticides for sustainable and eco-friendly agricultural and environmental practices.
145	Major Core III - Archegoniate	BC2031	<input checked="" type="checkbox"/>	Seminar on Pinus			<input checked="" type="checkbox"/>	Chart Display on Marsilea	To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
146	Major Elective -I (a) Herbal Botany	BC2032	<input checked="" type="checkbox"/>	Preparation of herbal products	<input checked="" type="checkbox"/>	Identification of ethnomedicinal plants	<input checked="" type="checkbox"/>	Local field visit to medicinal plants	To develop skills to become employable as professionals in traditional medicinal

147	Major Elective - I (b) Nursery and Gardening	BC2033	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand making and maintenance of gardening and lawn.
148	Major Elective - I (c) Agricultural Botany	BC2034	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand agricultural practices, seed technology; cropping scheme and
149	Allied II - Theory : Plant Diversity - I (Algae, Fungi, Bryophyta and Pteridophyta)	BA2031	<input checked="" type="checkbox"/>	Live specimen display on Rutaceae			<input checked="" type="checkbox"/>	Seminar on mechanism of photosynthesis	To learn the basic knowledge taxonomy and plant physiology.
150	Self Learning Course : Plant Resource Utilization	BC20S1	<input checked="" type="checkbox"/>	Preparation of keynotes	<input checked="" type="checkbox"/>	Preparation of question bank	<input checked="" type="checkbox"/>	Seminar on plant resources	To study the importance of plant resources.
151	Major Core IV - Plant Ecology and Phytogeography	BC2041	<input checked="" type="checkbox"/>	Field Visit to nearby Pond Ecosystem			<input checked="" type="checkbox"/>	Power point presentation on Hydrophytes	To learn the basic knowledge soil, water, vegetation and ecological groups.
152	Major Elective - II (a) Biological Resources	BC2042	<input checked="" type="checkbox"/>	Mushroom cultivation	<input checked="" type="checkbox"/>	Seminars - Biological resources	<input checked="" type="checkbox"/>	Model making on Plant resources	To understand the cultivation and production of biofertilizers, microbial fertilizers, biofertilizers and
153	Elective - II (b) Food Science	BC2043	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To learn about the importance, constituents and health practices of food
154	Elective – II (c) Biodiversity and Human Welfare	BC2044	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To learn about the importance of biodiversity and aware to conserve the biodiversity.
155	Allied II - Theory : Plant Diversity - II (Gymnosperms, Angiosperms and Plant Physiology)	BA2041	<input checked="" type="checkbox"/>	Flash board preparation on Anomalous secondary growth of stem			<input checked="" type="checkbox"/>	Assignment on Photophosphorylation	To understand the structure and function of basic organelles of plant cells and internal structure of plant parts.
156	Major Practical Paper - II Archegoniate & Plant Ecology and Phytogeography	BC20P2					<input checked="" type="checkbox"/>	Anatomical study using sectioning	To learn the sectioning for microscopic observation.
157	Allied II - Practical : Plant Diversity I & II and Plant Physiology	BA20P2	<input checked="" type="checkbox"/>	Identification of the cell organelles through microscope			<input checked="" type="checkbox"/>	Physiology experimental setup	To learn about physiology experimental set up.
158	Self Learning Course : Algal Biotechnology	BC20S2	<input checked="" type="checkbox"/>	Preparation of question bank	<input checked="" type="checkbox"/>	Preparation of algal products	<input checked="" type="checkbox"/>	Seminar on Algal diversity	To learn about the importance of algal diversity and aware to conserve the
159	Major Core V - Taxonomy and Economic Botany	BC1751	<input checked="" type="checkbox"/>	Field Visit to Kalikesam Hills			<input checked="" type="checkbox"/>	Herbarium preparation	To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.

160	Major Core VI - Biochemistry and Biophysics	BC1752	<input checked="" type="checkbox"/>	Seminar on Glycolysis			<input checked="" type="checkbox"/>	Group discussion on Fluorescence and Phosphorescence	To learn the emerging field of biochemistry, biophysics and principles of bioenergetics.
161	Major Core VII - Microbiology and Plant Pathology	BC1753	<input checked="" type="checkbox"/>	Milk processing unit visit to Aavin, Nagercoil	<input checked="" type="checkbox"/>	Assignment on Pasteurization	<input checked="" type="checkbox"/>	Hands on training on Biochemical tests to detect bacteria	To provide the students with the comprehensive understanding in microbiology and plant pathology.
162	Major - Elective III (a) Horticulture and Plant Breeding	BC1754	<input checked="" type="checkbox"/>	Nursery visit to Cheruvarukonam nursery	<input checked="" type="checkbox"/>	Hands on training on Nursery Techniques	<input checked="" type="checkbox"/>	Demonstration on Horticulture techniques	To perform horticultural practices.
163	Major - Elective III (b) Forestry	BC1755	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To have broad knowledge about the forest and forest products.
164	Major - Elective III (c) Biological Techniques	BC1756	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To study the principle, working mechanism and uses of instruments used in biology.
165	Major Practical V - Taxonomy and Economic Botany & Biochemistry and Biophysics	BC17P5			<input checked="" type="checkbox"/>	Herbarium and Key preparation	<input checked="" type="checkbox"/>	Exhibiting different plant families	To identify the plant specimens.
166	Skill Based Course (*SBC) – Floriculture	BSK175	<input checked="" type="checkbox"/>	Hands on training on Cutting and layering	<input checked="" type="checkbox"/>	Demonstration on grafting techniques	<input checked="" type="checkbox"/>	Hands on training on Bonsai	To develop flower garden around the home and office to reduce of stress related depression of the livelihood.
167	Major Core VIII - Genetics, Biostatistics and Bioinformatics	BC1761	<input checked="" type="checkbox"/>	Assignment on Monohybrid and Dihybrid cross			<input checked="" type="checkbox"/>	Problem solving in genetics	To generate logical interpretations and conclusions from graphs, models, and data of scientific research.
168	Major Core IX - Biotechnology and Molecular biology	BC1762	<input checked="" type="checkbox"/>	Hands on training on tissue culture techniques	<input checked="" type="checkbox"/>	Lab Visit to CMST, Rajakamangalam	<input checked="" type="checkbox"/>	Demonstration on Molecular Biology instrumentation	To evaluate and use biological information effectively, ethically, and legally.
169	Major Core X - Plant Physiology and Metabolism	BC1763			<input checked="" type="checkbox"/>	Hydroponics training	<input checked="" type="checkbox"/>	Demonstration on physiology setup	To integrate and interconnect plant physiological knowledge in agriculture, forestry, environmental science and
170	Major - Elective III (a) Marine Botany	BC1764	<input checked="" type="checkbox"/>	Assignment on Marine products	<input checked="" type="checkbox"/>	Group Discussion on Mangroves	<input checked="" type="checkbox"/>	Debate on Pros and cons of corals	To recognize the marine pollution and conservation methods.
171	Major - Elective III (b) - Organic Farming	BC1765	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the need and generating knowledge and skill on various organic farming practices.
172	Major - Elective III (c) Ecotourism	BC1766	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To highlight the need for sustainable tourism.

173	Major Practical VI - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology	BC17P6	<input checked="" type="checkbox"/>	Training on tissue culture techniques			<input checked="" type="checkbox"/>	Problem solving in genetics	To demonstrate experiments and interpret experimental data using biostatistics.
174	Major Practical VII - Microbiology and Plant Pathology & Plant Physiology and Metabolism	BC17P7					<input checked="" type="checkbox"/>	Culture techniques and biochemical tests to detect bacteria	To demonstrate and interpret the results of physiology and microbiology experiments.
175	Core I - Plant Diversity I – Algae, Fungi, Lichens and Bryophytes	PB2011	<input checked="" type="checkbox"/>	Algal field trip to Kovalam seashore	<input checked="" type="checkbox"/>	Identification of algal species	<input checked="" type="checkbox"/>	Preparation of algal herbarium	To gain adequate knowledge on comparative account of various algal divisions.
176	Core II – Microbiology	PB2012	<input checked="" type="checkbox"/>	Seminar on Sterilization techniques	<input checked="" type="checkbox"/>	Research lab visit to CMST, Rajakamangalam	<input checked="" type="checkbox"/>	Group discussion on Bacteriophages	To understand the microbial world.
177	Core III – Plant Anatomy & Embryology	PB2013	<input checked="" type="checkbox"/>	Microscopical observation of xylem and phloem			<input checked="" type="checkbox"/>	Preparation of permanent slide on embryology	To get brief knowledge on plant breeding techniques.
178	Elective I – (a) Marine Biology	PB2014	<input checked="" type="checkbox"/>	Assignment on seagrasses	<input checked="" type="checkbox"/>	Visit to marine coastal area, Kanyakumari	<input checked="" type="checkbox"/>	Chart preparation on different seaweeds	To understand the marine environment.
179	Elective I – (b) Organic Farming	PB2015	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To understand basic concepts of organic farming.
180	Core IV – Plant Diversity II - Pteridophyta, Gymnosperms and Palaeobotany	PB2021	<input checked="" type="checkbox"/>	Seminar on Marchantia and Pinus	<input checked="" type="checkbox"/>	Medicinal plant exhibition	<input checked="" type="checkbox"/>	Assignment on Pinus	To understand the evolutionary tendency of Thallophytes.
181	Core V – Research Methodology	PB2022	<input checked="" type="checkbox"/>	Writing of research article	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Steps to write articles in journals	To understand the research and its methodologies.
182	Core VI – Cell Biology and Biomolecules	PB2023	<input checked="" type="checkbox"/>	Model making on cell organelles	<input checked="" type="checkbox"/>	Role play on polysaccharides	<input checked="" type="checkbox"/>	Chart Preparation on Chromosomes	To understand the basic concepts of cell and cell functions.
183	Elective II – (a) Herbalism	PB2024	<input checked="" type="checkbox"/>	Chart preparation on Medically important			<input checked="" type="checkbox"/>	Exhibition on herbal products	To study of basic knowledge about herbals.
184	Elective II – (b) Evolutionary Biology	PB2025	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To understand the process of evolution.



185	Practical I - Plant Diversity I – Algae, Fungi, Lichens and Bryophytes, Microbiology and Plant Anatomy & Embryology	PB20P1	<input checked="" type="checkbox"/>	Seminar on Different types of algae			<input checked="" type="checkbox"/>	Microscopical observation of fungi	To identify microbes.
186	Practical II - Plant Diversity II- Pteridophyta, Gymnosperms and Palaeobotany, Research Methodology and Cell Biology and Biomolecules	PB20P2	<input checked="" type="checkbox"/>	Exhibition of medicinal plants	<input checked="" type="checkbox"/>	Sectioning and observation of plant cells	<input checked="" type="checkbox"/>	Microscopical observation of pteridophytes and gymnosperms	To differentiate non flowering plants.
187	Core VII - Taxonomy of Angiosperms	PB2031	<input checked="" type="checkbox"/>	Seminar on Vitaceae			<input checked="" type="checkbox"/>	Taxonomy field visit, Thambimalai hills	To get knowledge of modern trends in taxonomy of Angiosperms.
188	Core VIII – Genetics and Molecular Biology	PB2032	<input checked="" type="checkbox"/>	Interactive PPT on Genes			<input checked="" type="checkbox"/>	Model making on Monoclonal antibody production in plants	To acquire Knowledge in laboratory techniques.
189	Elective III – (a) Horticulture	PB2033					<input checked="" type="checkbox"/>		To study the horticultural techniques.
190	Elective III – (b) Forestry	PB2034	<input checked="" type="checkbox"/>	Seminar on Forest Act			<input checked="" type="checkbox"/>	Chart presentation on forest products	To learn the forest management methods.
191	Research Project	PB20PR					<input checked="" type="checkbox"/>	Outline for the preparation of	To service the society.
192	Self Learning Course - Biology for competitive exam – I	PB20S1	<input checked="" type="checkbox"/>	Preparation of question bank			<input checked="" type="checkbox"/>	Preparation of keynotes	To get exposure to write competitive exams.
193	Core IX - Plant Physiology	PB2041	<input checked="" type="checkbox"/>	Seminar using charts on Transpiration	<input checked="" type="checkbox"/>	Assignment on plant growth and development	<input checked="" type="checkbox"/>	Model making on Calvin cycle	To knowledge about plant physiological aspects.
194	Core X – Plant Ecology and Phytogeography	PB2042	<input checked="" type="checkbox"/>	Chart preparation on Halophytes and xerophytes			<input checked="" type="checkbox"/>	Quadrat analysis in botanical garden	To get idea about the environment.
195	Core XI – Biotechnology & Bioinformatics	PB2043					<input checked="" type="checkbox"/>	Model Preparation on Plant tissue culture	To employ microbes in producing useful products.
196	Elective IV – (a) Phytochemistry and Pharmacognosy	PB2044					<input checked="" type="checkbox"/>		To understand the bioinformatics tool in the field of biology.

197	Elective IV – (b) Entrepreneurial Botany	PB2045			<input checked="" type="checkbox"/>	Preparation of mushroom receipes	<input checked="" type="checkbox"/>	Exhhition on spirulina products	To understand the cultivation techniques of mushroom.
198	Practical III - Taxonomy of Angiosperms & Genetics and Molecular Biology.	PB20P3	<input checked="" type="checkbox"/>	Preparation of Taxonomic keys			<input checked="" type="checkbox"/>	Herbarium preparation	To learn about the taxonomical terminology, morphology, structure and functions of various parts of plants.
199	Practical IV - Plant Physiology, Plant Ecology & Phytogeography and Biotechnology & Bioinformatics	PB20P4	<input checked="" type="checkbox"/>	Simple experiment in physiology			<input checked="" type="checkbox"/>	Calulation of Shannon- wienner's index	To understand the methodology involved in environment and conservation biology.
200	Self Learning Course - Biology for competitive exam – II	PB20S2					<input checked="" type="checkbox"/>	Preparation of MCQ	To study basic life values.

**2020-2021**

201	Major Core I - Algae, Fungi and Lichens	BC2011	<input checked="" type="checkbox"/>	Chart Preparation on Algae and Fungi	<input checked="" type="checkbox"/>	Model making on Algae used in biofuel production	<input checked="" type="checkbox"/>	Assignment on Usnea	To develop a deep comprehension of the diversity, biology, and ecological roles of major algae, fungi, and lichens for ecological and applied knowledge.
202	Allied I - Chemistry→ of Life	BA2011	<input checked="" type="checkbox"/>	Chart Preparation on Mitochondria and Chloroplast	<input checked="" type="checkbox"/>	Working model on Opening and closing of stomata	<input checked="" type="checkbox"/>	Assignment on Atoms and molecules	To provide a foundational understanding of the fundamental chemical principles underlying
203	Non Major Elective NME I - Gardening and Floriculture (NMEC)	BNM201			<input checked="" type="checkbox"/>	Assignment on Gardening tools	<input checked="" type="checkbox"/>	Hands on training on flower arrangement	To cultivate expertise in gardening and floriculture techniques for creating and managing aesthetically pleasing and sustainable green spaces.
204	Major Core II - Plant Anatomy and Developmental Botany	BC2021	<input checked="" type="checkbox"/>	Demonstration on Sectioning of anamalous stem	<input checked="" type="checkbox"/>	Assignment on Sectioning techniques	<input checked="" type="checkbox"/>	Observation of wood anatomy	To foster a comprehensive understanding of plant anatomy and developmental processes to elucidate plant growth and structure.
205	Practical I -Algae, Fungi ,Lichens and Plant Anatomy and Developmental Botany	BC20P1	<input checked="" type="checkbox"/>	Microscopical observation of algae	<input checked="" type="checkbox"/>	Identification of fungi by LPCB method	<input checked="" type="checkbox"/>	Collection of lichens	To develop hands-on expertise in observing and analyzing plant tissues and structures to comprehend their growth and development.

206	Allied I - Theory : - Taxonomy of Angiosperms and Herbal Technology	BA2021	<input checked="" type="checkbox"/>	Group Discussion on Cappariadaceae	<input checked="" type="checkbox"/>	Tabulation of families with examples	<input checked="" type="checkbox"/>	Assigning ten plants with their respective families in college campus	To cultivate expertise in angiosperm classification and herbal technology for informed plant identification and utilization.
207	Allied Practical I - Chemistry of Life and Taxonomy of Angiosperms and Herbal Technology	BA20P1	<input checked="" type="checkbox"/>	Exhibition on Locally available Medicinal Plants			<input checked="" type="checkbox"/>	Album preparation on Herbal products	To equip students with the expertise to classify angiosperms and apply herbal technology for diverse practical applications.
208	Non Major Elective NME II - Biofertilizers, Biofuels and Biopesticides (NMEC)	BNM202	<input checked="" type="checkbox"/>	Guest Lecture on Future Line Biotechnology	<input checked="" type="checkbox"/>	Endowment Lecture on "Biosensors"	<input checked="" type="checkbox"/>	Album preparation on Biofuels	To equip students with the knowledge and skills to harness biofertilizers, biofuels, and biopesticides for sustainable and eco-friendly agricultural and environmental practices.
209	Major Core III - Archegoniate	BC1731	<input checked="" type="checkbox"/>	Display of models on Archegoniate			<input checked="" type="checkbox"/>	Permanent Slide preparation	To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
210	Major Elective – I (a) Herbal Botany	BC1732	<input checked="" type="checkbox"/>	Preparation of herbal products using locally available herbs	<input checked="" type="checkbox"/>	Visit to vaithiyars shop in local area	<input checked="" type="checkbox"/>	Field visit to medicinal plants cultivation areas	To develop skills to become employable as professionals in traditional medicinal system.
211	Major Elective – I (b) Nursery and Gardening	BC1733	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand making and maintenance of gardening and lawn.
212	Major Elective – I (c) Agricultural Botany	BC1734	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand agricultural practices, seed technology; cropping scheme and
213	Major Practical Paper - III Archegoniate	BC17P3					<input checked="" type="checkbox"/>	Anatomical study using sectioning	To learn the sectioning for microscopic observation.
214	Allied II - Theory : Taxonomy of Angiosperms and Plant Physiology	BA1731	<input checked="" type="checkbox"/>	Demonstration with live specimen			<input checked="" type="checkbox"/>	Assignment on Breaking of seed dormancy	To learn the basic knowledge on taxonomy and plant physiology.
215	Self Learning Course - Plant Resource Utilization	BC17S1	<input checked="" type="checkbox"/>	Preparation of MCQ	<input checked="" type="checkbox"/>	Seminar on Plant resources	<input checked="" type="checkbox"/>	Preparation of Keynotes	To study the importance of plant resources.
216	Major Core IV – Plant Ecology and Phytogeography	BC1741	<input checked="" type="checkbox"/>	Field Visit to Pond Ecosystem	<input checked="" type="checkbox"/>	Permenant slide preparation	<input checked="" type="checkbox"/>	Demonstration on Quadrat analysis	To learn the basic knowledge soil, water, vegetation and ecological groups.
217	Major - Elective II (a) Biological Resources	BC1742	<input checked="" type="checkbox"/>	Preparation of Vermicompost	<input checked="" type="checkbox"/>	Mushroom cultivation	<input checked="" type="checkbox"/>	Demonstration of SCP products	To understand the cultivation and production of biofertilizers, microbial fertilizers, biofertilizers and biopesticides.

218	Major - Elective II (b) Food Science	BC1743	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To learn about the importance, constituents and health practices of food
219	Major - Elective II (c) Biodiversity and Human Welfare	BC1744	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To learn about the importance of biodiversity and aware to conserve the biodiversity.
220	Major Practical IV - Plant Ecology and Phytogeography	BC17P4	<input checked="" type="checkbox"/>	Powerpoint presentation on Xerophytes			<input checked="" type="checkbox"/>	Display of Plant cell structure model	To understand the structure and function of basic organelles of plant cells and internal structure of plant
221	Allied II – Theory : Cell Biology and Plant Anatomy	BA1741					<input checked="" type="checkbox"/>	Demonstration on soil permeability and Soil pH	To learn the sectioning for microscopic observation and studying vegetation.
222	Allied II – Practical: Taxonomy, Anatomy, Plant Physiology, Cell Biology and Plant Anatomy	BA17P2	<input checked="" type="checkbox"/>	Identify the cell organelles through microscope			<input checked="" type="checkbox"/>	Physiology experimental setup	To learn about physiology experimental set up.
223	Self Learning Course - Algal Biotechnology	BC17S2	<input checked="" type="checkbox"/>	Preparation of question bank	<input checked="" type="checkbox"/>	Preparation of MCQ	<input checked="" type="checkbox"/>	Preparation of keynotes	To learn about the importance of algal diversity and aware to conserve the
224	Major Core V - Taxonomy and Economic Botany	BC1751	<input checked="" type="checkbox"/>	Field Visit to Chankkadai hills			<input checked="" type="checkbox"/>	Herbarium and Key preparation	To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
225	Major Core VI - Biochemistry and Biophysics	BC1752	<input checked="" type="checkbox"/>	Assignment on Metabolism of lipids			<input checked="" type="checkbox"/>	Group discussion on Polysaccharides	To learn the emerging field of biochemistry, biophysics and principles of bioenergetics.
226	Major Core VII - Microbiology and Plant Pathology	BC1753	<input checked="" type="checkbox"/>	Preparation of herbarium with diseased plants	<input checked="" type="checkbox"/>	Group discussion on Viruses	<input checked="" type="checkbox"/>	Demonstration of biochemical tests of bacteria	To provide the students with the comprehensive understanding in microbiology and plant pathology.
227	Major - Elective III (a) Horticulture and Plant Breeding	BC1754	<input checked="" type="checkbox"/>	Nursery visit to Cheruvarkonam	<input checked="" type="checkbox"/>	Demonstration on Nursery Techniques	<input checked="" type="checkbox"/>	Chart preparation on Lawn making	To perform horticultural practices.
228	Major - Elective III (b) Forestry	BC1755	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To learn broad knowledge about the forest and forest products.
229	Major - Elective III (c) Biological Techniques	BC1756	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To study principle, working mechanism and uses of instruments used in biology.
230	Major Practical V - Taxonomy and Economic Botany & Biochemistry and Biophysics	BC17P5			<input checked="" type="checkbox"/>	Preparation of herbarium	<input checked="" type="checkbox"/>	Identification of plants with respect to its families	To identify the plant specimens.

231	Skill Based Course (*SBC) – Floriculture	BSK175	<input checked="" type="checkbox"/>	Hands on training on Flower arrangement	<input checked="" type="checkbox"/>	Demonstration on Nursery Techniques	<input checked="" type="checkbox"/>	Hands on training on Bonsai	To develop flower garden around the home and office to reduce of stress related depression of the livelihood.
232	Major Core VIII - Genetics, Biostatistics and Bioinformatics	BC1761	<input checked="" type="checkbox"/>	Assignment on Genes			<input checked="" type="checkbox"/>	Problem solving in genetics	To generate logical interpretations and conclusions from graphs, models, and data of scientific research.
233	Major Core IX - Biotechnology and Molecular biology	BC1762	<input checked="" type="checkbox"/>	Hands on training on tissue culture techniques	<input checked="" type="checkbox"/>	Seminar on Restriction enzymes	<input checked="" type="checkbox"/>	Assignment on DNA structure	To evaluate and use biological information effectively, ethically, and legally.
234	Major Core X - Plant Physiology and Metabolism	BC1763			<input checked="" type="checkbox"/>	Demonstration on Respirometer	<input checked="" type="checkbox"/>	Hydroponics training	To integrate and interconnect plant physiological knowledge in agriculture, forestry, environmental science and
235	Major - Elective III (a) - Marine Botany	BC1764	<input checked="" type="checkbox"/>	Power point presentation on Marine	<input checked="" type="checkbox"/>	Assignment on Seaweeds and seagrasses	<input checked="" type="checkbox"/>	Group discussion on Red algae and green	To recognize the marine pollution and conservation methods.
236	Major - Elective III (b) - Organic Farming	BC1765	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the need and generating knowledge and skill on various organic farming practices.
237	Major - Elective III (c) - Ecotourism	BC1766	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To highlight the need for sustainable tourism.
238	Major Practical VI - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology	BC17P6	<input checked="" type="checkbox"/>	Training on tissue culture techniques			<input checked="" type="checkbox"/>	Data analysis with department library books	To demonstrate experiments and interpret experimental data using biostatistics.
239	Major Practical VII - Microbiology and Plant Pathology & Plant Physiology and Metabolism	BC17P7			<input checked="" type="checkbox"/>	Identification of bacteria	<input checked="" type="checkbox"/>	Identification of diseased plants	To demonstrate and interpret the results of physiology and microbiology experiments.
240	Core I - Plant Diversity I – Algae, Fungi, Lichens and Bryophytes	PB2011	<input checked="" type="checkbox"/>	Seminar on Algae and Fungi	<input checked="" type="checkbox"/>	Lichen herbarium preparation	<input checked="" type="checkbox"/>	Algal visit to Kovalam	To gain adequate knowledge on comparative account of various algal divisions.
241	Core II – Microbiology	PB2012	<input checked="" type="checkbox"/>	Hands on training on Pure culture	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Research lab visit, CMST,	To understand the microbial world.
242	Core III – Plant Anatomy & Embryology	PB2013	<input checked="" type="checkbox"/>	Microscopical observation on xylem and phloem	<input checked="" type="checkbox"/>	Permanent slide preparation ovules	<input checked="" type="checkbox"/>	Chart presentation on types of embryo	To get brief knowledge on plant breeding techniques.
243	Elective I – (a) Marine Biology	PB2014	<input checked="" type="checkbox"/>	Assignment on Coral reefs	<input checked="" type="checkbox"/>	Visit to marine ecosystem, Kanyakumari	<input checked="" type="checkbox"/>	Album preparation on Coral reef formation	To understand the marine environs.

244	Elective I – (b) Organic Farming	PB2015	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To understand basic cocepts of organic farming.
245	Core IV – Plant Diversity II - Pteridophyta, Gymnosperms and Palaeobotany	PB2021	<input checked="" type="checkbox"/>	Medicinal plant exhibition	<input checked="" type="checkbox"/>	Assignment on Pteridophyta, Gymnosperms and Palaeobotany	<input checked="" type="checkbox"/>	Seminar on Paleobotany	To understand the evolutionary tendency of Thallophytes.
246	Core V – Research Methodology	PB2022	<input checked="" type="checkbox"/>	Debate on Problem solving in research	<input checked="" type="checkbox"/>	Writing of research article	<input checked="" type="checkbox"/>	Writing of thesis	To understand the resaerch and its methodolies.
247	Core VI – Cell Biology and Biomolecules	PB2023	<input checked="" type="checkbox"/>	Chart Preparation on Cells	<input checked="" type="checkbox"/>	Working model on cell organelles	<input checked="" type="checkbox"/>	Identificatioon and observation of giant chromosomes	To understand the basic concepts of cell and cell functions.
248	Elective II – (a) Herbalism	PB2024	<input checked="" type="checkbox"/>	Visit to Herbal shop			<input checked="" type="checkbox"/>	Exhibition on herbal products	To have basic knowledge about herbals.
249	Elective II – (b) Evolutionary Biology	PB2025	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To understand the process of evolution.
250	Practical I - Plant Diversity I – Algae, Fungi, Lichens and Bryophytes, Microbiology and Plant Anatomy &Embryology	PB20P1	<input checked="" type="checkbox"/>	Microscopic observation of algae and fungi			<input checked="" type="checkbox"/>	Identification of microbes from soil	To identify microbes.
251	Practical II - Plant Diversity II- Pteridophyta, Gymnosperms and Palaeobotany, Research Methodology and Cell Biology and Biomolecules	PB20P2	<input checked="" type="checkbox"/>	Seminar on Paleobotany	<input checked="" type="checkbox"/>	Exhibition on different medicinal plants	<input checked="" type="checkbox"/>	Sectioning of plants and microscopical observation	To differentiate non flowering plants.
252	Core VII - Taxonomy of Angiosperms and Economic Botany	PB1731	<input checked="" type="checkbox"/>	Taxonomy field visit, Kalikesam	<input checked="" type="checkbox"/>	Herbarium preparation	<input checked="" type="checkbox"/>	Taxonomy key preparation	To get knowledge of modern trends in taxonomy of Angiosperms.
253	Core VIII - Genetics and Molecular Biology	PB1732	<input checked="" type="checkbox"/>	Model making on Genes	<input checked="" type="checkbox"/>	Assignment on Plasmids and cosmids	<input checked="" type="checkbox"/>	Debate on Cloning	To acquire knowledge in laboratory techniques.
254	Elective III -(a) Forestry	PB1733	<input checked="" type="checkbox"/>	Chart making on Forest products	<input checked="" type="checkbox"/>	Assignment on dye yielding	<input checked="" type="checkbox"/>	Album prepartion on drugyielding plants	To learn the forest management methods.

255	Elective III -(b) Horticulture and Plant Breeding (Elective III)	PB1733			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To study the horticultural techniques.
256	Research Project	PB17PR					<input checked="" type="checkbox"/>	Thesis writing	To knowledge various aspects of
257	Practical III - Taxonomy of Angiosperms and Economic Botany, Genetics and Molecular Biology	PB17P3	<input checked="" type="checkbox"/>	Herbarium preparation			<input checked="" type="checkbox"/>	Problem solving	To learn about the taxonomical terminology, morphology, structure and functions of various parts of plants.
258	Self Learning Course - Biology for competitive exam – I	PB17S1	<input checked="" type="checkbox"/>	Preparation of question bank			<input checked="" type="checkbox"/>	Preparation of keynotes	To get exposure to write competitive exams.
259	Core IX - Plant Physiology and Metabolism	PB1741	<input checked="" type="checkbox"/>	Demonstration in plant physiology	<input checked="" type="checkbox"/>	Seminar using charts on Polyamines	<input checked="" type="checkbox"/>	Seminar using charts on Nitrogen fixation	To have knowledge about plant physiological aspects.
260	Core X - Environment and Conservation Biology	PB1742	<input checked="" type="checkbox"/>	Assignment on Phytogeography	<input checked="" type="checkbox"/>	Visit to Manakudy mangroves	<input checked="" type="checkbox"/>	Quadrat analysis in herbal garden	To get idea about the environment.
261	Core XI - Applied Biotechnology	PB1743			<input checked="" type="checkbox"/>	Model Preparation on Enzyme production	<input checked="" type="checkbox"/>	Assignment on Vitamins	To produce value added products such as antibiotics.
262	Elective IV - (a) Industrial Microbiology	PB1744	<input checked="" type="checkbox"/>	Assignment on Alcohol production	<input checked="" type="checkbox"/>	Preparation of wine	<input checked="" type="checkbox"/>	Demo on Phytochemical tests	To employ microbes in producing useful products.
263	Elective IV - (b) Biostatistics and Bioinformatics	PB1745	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To analyze the biological data.
264	Practical IV - Plant Physiology and Metabolism, Environment and Conservation Biology and Applied Biotechnology	PB17P4	<input checked="" type="checkbox"/>	Quadrat analysis in grassland ecosystem			<input checked="" type="checkbox"/>	Demonstration of physiology setup	To understand the methodology involved in environment and conservation biology.
265	Self Learning Course - Biology for competitive exam – II	PB17S2					<input checked="" type="checkbox"/>	Preparation of MCQ	To basic life values.

2019-2020

266	Major Core I – Algae, Fungi and Lichens	BC1711			<input checked="" type="checkbox"/>	Algal collection from Kanyakumari coast	<input checked="" type="checkbox"/>	Algal herbarium preparation	To know about the diversity of nature.
267	Allied I - Theory: Cell Biology and Plant Anatomy	BA1711	<input checked="" type="checkbox"/>	Model Preparation on Plant and animal cells	<input checked="" type="checkbox"/>	Assignment on Plant and animal cells	<input checked="" type="checkbox"/>	Chart making on Nucleus	To develop hands-on expertise in observing and analyzing plant tissues and structures to comprehend their
268	Major Practical I - Algae, Fungi and Lichen	BC17P1	<input checked="" type="checkbox"/>	Microscopical identification of algae and fungi			<input checked="" type="checkbox"/>	Algal herbarium preparation	To equip with the basics of cell and anatomy.
269	Non Major Elective Course (NMEC) – Food and Nutrition	BNM171	<input checked="" type="checkbox"/>	Chart Preparation on Pickle, Jam and Jelly preparation			<input checked="" type="checkbox"/>	Preparation of jam, jelly and pickles	To familiar with balanced diet.
270	Major Core II - Plant Anatomy and Embryology	BC1721	<input checked="" type="checkbox"/>	Permanent slide preparation on types of tissues			<input checked="" type="checkbox"/>	Demonstration on live specimen	To understand plant anatomy and embryology to explore the structure, growth, and development of plants from
271	Major Practical II - Plant Anatomy and Embryology Plant Anatomy and Embryology	BC17P2	<input checked="" type="checkbox"/>	Demonstration on Permanent Slide and live specimens	<input checked="" type="checkbox"/>	Model making on types of ovules	<input checked="" type="checkbox"/>	Sectioning techniques	To understand with hands-on experience and knowledge in studying the internal structure of plants and their embryonic development.
272	Allied I - Theory : Taxonomy of Angiosperms and Plant Physiology	BA1721	<input checked="" type="checkbox"/>	Visit to Ponmalai hillocks			<input checked="" type="checkbox"/>	Herbarium preparation	To understand the diversity and classification of flowering plants (Angiosperms) and their physiological processes for a comprehensive grasp of
273	Allied I - Practical - Cell Biology, Plant Anatomy, Taxonomy of Angiosperms and Plant Physiology Taxonomy of Angiosperms and Plant Physiology	BA17P1	<input checked="" type="checkbox"/>	Model Preparation on Plant and animal cells			<input checked="" type="checkbox"/>	Demo on Physiology set up	To develop hands-on skills in exploring cellular structures, plant tissue organization, and conducting experiments related to the taxonomy and physiological processes of flowering plants.
274	Non Major Elective Course (NMEC) – Eco - Friendly Technology	BNM172			<input checked="" type="checkbox"/>	Mushroom cultivation technology	<input checked="" type="checkbox"/>		To equip the students with knowledge and skills to develop and implement sustainable technologies that minimize environmental impact and promote a
275	Major Core III - Archegoniate	BC1731	<input checked="" type="checkbox"/>	Assignment on Archegoniate			<input checked="" type="checkbox"/>	Presentation with chart display on Rhynia	To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
276	Major Practical Paper - III Archegoniate	BC17P3					<input checked="" type="checkbox"/>	Anatomical study using sectioning	To learn the sectioning for microscopic observation.



277	Major Elective – I (a) Herbal Botany	BC1732	<input checked="" type="checkbox"/>	Herbal oil Preparation	<input checked="" type="checkbox"/>	Presentation about Ethnomedicinal Plants in Kanyakumari District	<input checked="" type="checkbox"/>	Experimental approach in lab to identify secondary	To develop skills to become employable as professionals in traditional medicinal system.
278	Major Elective – I (b) Nursery and Gardening	BC1733					<input checked="" type="checkbox"/>		To understand the making and maintenance of gardening and lawn.
279	Major Elective – I (c) Agricultural Botany	BC1734					<input checked="" type="checkbox"/>		To understand agricultural practices, seed technology; cropping scheme and
280	Taxonomy of Angiosperms and Plant Physiology	BA1731	<input checked="" type="checkbox"/>	Power point Presentation on Taxonomy key			<input checked="" type="checkbox"/>	Assignment on Causes of seed dormancy	To learn the basic knowledge taxonomy and plant physiology.
281	Self Learning Course : Plant Resource Utilization	BC17S1	<input checked="" type="checkbox"/>	Preparation of MCQ	<input checked="" type="checkbox"/>	Visit to nearby Museum	<input checked="" type="checkbox"/>	Differentiate renewable and non renewable resource	To study the importance of plant resources.
282	Major Core IV – Plant Ecology and Phytogeography	BC1741	<input checked="" type="checkbox"/>	Model making on food chain	<input checked="" type="checkbox"/>	Visit to pond eco system	<input checked="" type="checkbox"/>	Quadrat Sampling in Holy Cross botanical garden	To understand the relationships between the different ecological groups.
283	Major - Elective II (a) Biological Resources	BC1742	<input checked="" type="checkbox"/>	Assignment on Biological resources	<input checked="" type="checkbox"/>	Hands on training - Preparation of biologically useful products	<input checked="" type="checkbox"/>	Assignment on biological resources	To realize the vast expansion of biomass systems, both for green energy and for other renewable resources.
284	Major - Elective II (b) Food Science	BC1743					<input checked="" type="checkbox"/>		To know about the balanced diet and its importance.
285	Major - Elective II (c) Biodiversity and Human Welfare	BC1744					<input checked="" type="checkbox"/>		To assess the value of biodiversity through valid methodologies.
286	Major Practical IV - Plant Ecology and Phytogeography	BC17P4	<input checked="" type="checkbox"/>	Quadrat Sampling in Holy Cross botanical garden			<input checked="" type="checkbox"/>	Visit to remote sensing area	To record the locally available Hydrophytes, Xerophytes and Halophytes.
287	Allied II – Theory : Cell Biology and Plant Anatomy	BA1741	<input checked="" type="checkbox"/>	Chart Preparation on Plant and animal cells			<input checked="" type="checkbox"/>	Assignments on Pteridophytes	To compare the structure and functions of living and non - living inclusions in plants, primary and secondary structure
288	Allied II – Practical: Taxonomy, Anatomy, Plant Physiology, Cell Biology and Plant Anatomy	BA17P2	<input checked="" type="checkbox"/>	Hands on training on Sectioning of anamalous stem			<input checked="" type="checkbox"/>	Sectioning and observation in microscope	To dissect the floral parts of the prescribed families and explain with appropriate diagrams.
289	Self Learning Course - Algal Biotechnology	BC17S2	<input checked="" type="checkbox"/>	Visit to Vattakottai seachore	<input checked="" type="checkbox"/>	Preparation on algal herbarium	<input checked="" type="checkbox"/>	Preparation of algal products	To learn about the importance of algal diversity and aware to conserve the

290	Major Core V - Taxonomy and Economic Botany	BC1751	<input checked="" type="checkbox"/>	Field Visit to Thambimalai hills			<input checked="" type="checkbox"/>	Seminar on Vitaceae	To acquire knowledge on the botanical vocabulary and taxonomical terminology to identify plants.
291	Major Core VI - Biochemistry and Biophysics	BC1752	<input checked="" type="checkbox"/>	Assignment on Thermodynamics			<input checked="" type="checkbox"/>	Assignment on Fats and oils	To learn the emerging field of biochemistry, biophysics and principles of bioenergetics.
292	Major Core VII - Microbiology and Plant Pathology	BC1753	<input checked="" type="checkbox"/>	Demonstration on Pure Culture techniques	<input checked="" type="checkbox"/>	Preparation of different culture media and identification of microbes	<input checked="" type="checkbox"/>	Demonstration of Microbiology tests to detect bacteria	To provide the students with the comprehensive understanding in microbiology and plant pathology.
293	Major - Elective III (a) Horticulture and Plant Breeding	BC1754	<input checked="" type="checkbox"/>	Nursery visit to Cheruvarukonam nursery	<input checked="" type="checkbox"/>	Demonstration on nursery Techniques	<input checked="" type="checkbox"/>	Seminar on Layering techniques	To perform horticultural practices.
294	Major - Elective III (b) Forestry	BC1755					<input checked="" type="checkbox"/>		To understand a broad knowledge about the forest and forest product.
295	Major - Elective III (c) Biological Techniques	BC1756					<input checked="" type="checkbox"/>		To study principle, working mechanism and uses of instruments used in biology.
296	Major Practical V - Taxonomy and Economic Botany & Biochemistry and Biophysics	BC17P5			<input checked="" type="checkbox"/>	Herbarium preparation	<input checked="" type="checkbox"/>	Exhibition on economically important products	To identify the plant specimens.
297	Skill Based Course (*SBC) – Floriculture	BSK175	<input checked="" type="checkbox"/>	Assignment on preservation of flowers	<input checked="" type="checkbox"/>	Demo on flower arrangement	<input checked="" type="checkbox"/>	Hands on training on Bonsai	To develop flower garden around the home and office to reduce of stress related depression of the livelihood.
298	Major Core VIII - Genetics, Biostatistics and Bioinformatics	BC1761	<input checked="" type="checkbox"/>	Seminar on Crossing over and linkage			<input checked="" type="checkbox"/>	Problem solving in biostatistics	To generate logical interpretations and conclusions from graphs, models, and data of scientific research.
299	Major Core IX - Biotechnology and Molecular biology	BC1762	<input checked="" type="checkbox"/>	Hands on training on tissue culture practices	<input checked="" type="checkbox"/>	Assignment on Cloning	<input checked="" type="checkbox"/>	Group discussion on Restriction digestion	To evaluate and use biological information effectively, ethically, and legally.
300	Major Core X - Plant Physiology and Metabolism	BC1763			<input checked="" type="checkbox"/>	Seminar on GMP pathway	<input checked="" type="checkbox"/>	Hydroponics training	To integrate and interconnect plant physiological knowledge in agriculture, forestry, environmental science and
301	Major - Elective III (a) Marine Botany	BC1764	<input checked="" type="checkbox"/>	Chart preparation on marine ecosystem	<input checked="" type="checkbox"/>	Group Discussion on Mangroves	<input checked="" type="checkbox"/>	Seminar on Seaweeds	To recognize the marine pollution and conservation methods.
302	Major - Elective III (b) - Organic Farming	BC1765					<input checked="" type="checkbox"/>		To understand the need and generating knowledge and skill on various organic farming practices.

303	Major - Elective III (c) - Ecotourism	BC1766					<input checked="" type="checkbox"/>		To highlight the need for sustainable tourism.
304	Major Practical VI - Genetics, Biostatistics and Bioinformatics & Biotechnology and Molecular Biology	BC17P6	<input checked="" type="checkbox"/>	Training on tissue culture technique			<input checked="" type="checkbox"/>	Problem solving in biostatistics	To demonstrate experiments and interpret experimental data using biostatistics.
305	Major Practical VII - Microbiology and Plant Pathology & Plant Physiology and Metabolism	BC17P7			<input checked="" type="checkbox"/>	Identification of bacteria	<input checked="" type="checkbox"/>	Collection of diseased leaves	To demonstrate and interpret the results of physiology and microbiology experiments.
306	Core I - Plant Diversity I - Algae, Fungi, Lichens and Bryophytes	PB1711	<input checked="" type="checkbox"/>	Algal field trip to Vattakottai	<input checked="" type="checkbox"/>	Role play on Different group of algae	<input checked="" type="checkbox"/>	Algal herbarium preparation	To gain adequate knowledge on comparative account of various algal divisions.
307	Core II - Microbiology, Immunology and Plant Pathology	PB1712	<input checked="" type="checkbox"/>	Seminar on Viruses	<input checked="" type="checkbox"/>	Debate on Microbes : Friend or Foe	<input checked="" type="checkbox"/>	Research lab visit, CMST, Rajakamangalam	To understand the microbial world.
308	Core III - Developmental Botany	PB1713	<input checked="" type="checkbox"/>	Assignment on Embryogenesis	<input checked="" type="checkbox"/>	Seminar on fertilization	<input checked="" type="checkbox"/>	Microscopical observation on xylem and phloem	To get brief knowledge on plant breeding tecniqus.
309	Elective I - (a) Marine Biology	PB1714	<input checked="" type="checkbox"/>	PPT presentation on Plate tectonics	<input checked="" type="checkbox"/>	Assignment on Earthquake and Tsunami	<input checked="" type="checkbox"/>	Visit to marine ecosystem,	To understand the marine environment.
310	Elective I - (b) Cell Biology	PB1714	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To understand the basic concepts of organic farming.
311	Practical I - Plant Diversity I – Algae, Fungi and Bryophytes; Microbiology, Immunology and Plant Pathology; Developmental Botany	PB17P1	<input checked="" type="checkbox"/>	Microscopical observation of algae, fungi and lichens			<input checked="" type="checkbox"/>	Identification of fungi LPCB method	To understand the evolutionary tendency of Thallophytes.
312	Core IV - Plant Diversity II - Pteridophyta, Gymnosperms and Palaeobotany	PB1721	<input checked="" type="checkbox"/>	Field trip to Ponmudi	<input checked="" type="checkbox"/>	Assignment on Fossils	<input checked="" type="checkbox"/>	Specimen preservation	To know about the primitive group of plants.

313	Core V - Research Methodology	PB1722	<input checked="" type="checkbox"/>	Group discussion on Research proposal	<input checked="" type="checkbox"/>	Writing a paper to journal	<input checked="" type="checkbox"/>	Model making on types of research	To understand the research and its methodologies.
314	Core VI - Biochemistry and Biophysics	PB1723	<input checked="" type="checkbox"/>	Assignment on Thermodynamics law	<input checked="" type="checkbox"/>	Seminar on Bioluminescence	<input checked="" type="checkbox"/>	Group discussion on Water soluble and fat soluble vitamins	To have basic knowledge about herbals.
315	Elective I - (a) Medicinal Botany and Pharmacognosy	PB1724	<input checked="" type="checkbox"/>	Assignment on Fossils	<input checked="" type="checkbox"/>	Assignment on Drugs from medicinal herbs	<input checked="" type="checkbox"/>	Assignment on Pharmacological importance of plants	To understand the process of evolution.
316	Elective I - (b) Medicinal Plants and Ethnobotany	PB1724					<input checked="" type="checkbox"/>		To identify microbes.
317	Practical II - Plant Diversity – II - Pteridophyta, Gymnosperms and Paleobotany; Research Methodology and Biochemistry and Biophysics	PB17P2	<input checked="" type="checkbox"/>	Analyse the viscosity of different oils	<input checked="" type="checkbox"/>	Observation of permanent slides to identify Pteridophytes and Gymnosperms	<input checked="" type="checkbox"/>	Microscopical observation of fossil slides	To differentiate non flowering plants.
318	Core VII - Taxonomy of Angiosperms and Economic Botany	PB1731	<input checked="" type="checkbox"/>	Herbarium Preparation	<input checked="" type="checkbox"/>	Taxonomic Key Preparation	<input checked="" type="checkbox"/>	Taxonomy field visit, Chunkankadai hills	To get knowledge of modern trends in taxonomy of Angiosperms.
319	Core VIII – Genetics and Molecular Biology	PB1732	<input checked="" type="checkbox"/>	Model making on Genes	<input checked="" type="checkbox"/>	Album preparation on Cosmids	<input checked="" type="checkbox"/>	Model making on Transgenics	To acquire knowledge in laboratory techniques.
320	Elective III – (a) Forestry	PB1733	<input checked="" type="checkbox"/>	Chart making on Forest products	<input checked="" type="checkbox"/>	Group Discussion on Pharmaceutical products from forest	<input checked="" type="checkbox"/>	Local field visit to hilly areas of Kalikesam	To learn the forest management methods.
321	Elective III - (b) Horticulture and Plant Breeding	PB1733			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		To study the horticultural techniques.
322	Project	PB17PR					<input checked="" type="checkbox"/>	Thesis writing	To have broad knowledge in various aspects of botany.
323	Practical III - Taxonomy of Angiosperms and Economic Botany, Genetics and Molecular Biology.	PB17P3	<input checked="" type="checkbox"/>	Herbarium Preparation			<input checked="" type="checkbox"/>	Taxonomy key Preparation	To learn about the taxonomical terminology, morphology, structure and functions of various parts of plants.

324	Biology for competitive exam – I	PB17S1	<input checked="" type="checkbox"/>	Preparation of question bank			<input checked="" type="checkbox"/>	Library visit	To get exposure to write competitive exams.
325	Core IX - Plant Physiology and Metabolism	PB1741	<input checked="" type="checkbox"/>	Assignmentt on Osmosis	<input checked="" type="checkbox"/>	Demonstration of Simple experiments in Physiology	<input checked="" type="checkbox"/>	Seminar using charts on Transpiration	To have broad knowledge about plant physiology.
326	Core X – Environment and Conservation Biology	PB1742	<input checked="" type="checkbox"/>	Quadrat Sampling in Holy Cross botanical garden	<input checked="" type="checkbox"/>	Seminar on Hydrophytes	<input checked="" type="checkbox"/>	Demonstration on Simple experiment in ecology	To get idea about the enviroment.
327	Core XI – Applied Biotechnology	PB1743			<input checked="" type="checkbox"/>	Hands on training on In vitro propagation of plants	<input checked="" type="checkbox"/>	Demonstration of plant tissue culture	To produce value added products such as antibiotics.
328	Elective IV – (a) Industrial Microbiology	PB1744	<input checked="" type="checkbox"/>	Model making on alcohol production	<input checked="" type="checkbox"/>	Preparation of Wine	<input checked="" type="checkbox"/>	Demonstration on Phytochemical tests	To employ microbes in producing useful products.
329	Elective IV – (b) Biostatistics and Bioinformatics	PB1745	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		To analyze the biological data.
330	Practical IV - Plant Physiology and Metabolism, Environment and Conservation Biology and Applied Biotechnology	PB17P4	<input checked="" type="checkbox"/>	Hands on Training on biotechnology instruments	<input checked="" type="checkbox"/>	Quadrat anaysis in field	<input checked="" type="checkbox"/>	Demonstration of simple experiments	To understand the methodology involved in environment and conservation biology.
331	Biology for competitive exam – II	PB17S2			<input checked="" type="checkbox"/>	Library visit	<input checked="" type="checkbox"/>	Preparation of question bank	To have basic life values.