SRI KALISWARI COOLEGE (AUTONOMOUS), SIVAKASI (Affiliated to Madurai Kamaraj University, Re-accredited with A Grade (CGPA 3.11) by NAAC) BOARD OF STUDIES MEETING

Name of the Department: Botany

Date

: 20.07.2021

Course

: B.Sc., M.SC., Botany

Members Present:

S. No.	Board Members	Name and Designation				
1.	Chairman of the Board	Dr. M. Sujatha				
	02.5	Head & Assistant Professor				
		Department of Botany				
		Sri Kaliswari College (Autonomous), Sivakasi.				
2.	University Nominee	Dr. P. Gopal				
		Assistant Professor				
		Department of Plant Biotechnology				
		Madurai Kamaraj University,				
	2	Madurai -625021				
3.	Academic Expert 1.	Dr.R. Ramasubbu				
		Assistant Professor				
		Department of xBiology				
		The Gandhigram Rural Institute				
		(Deemed to be University), Gandhigram				
		Dindigul District.				
4.	Academic Expert 2.	Dr M.Venkatesan				
	*	Assistant Professor,				
		Department of Botany,				
		Sourashtra College, Madurai				

5.	Industrialist	Mr. R. Govindaraj						
		Sri Marutham Agro Biotech,						
		Madurai						
6.	Alumnus	Mr. V. Sakkamuthu						
		Field Assistant, DST Project						
		Kalasalingam School of Agriculture and Horticulture						
0		Kalasalingam Academy of Research and Education						
		(Deemed to be University),						
		Anand Nagar, Krishnankovil.						
7.	Dr.R. Narayanaprakash	Guest Faculty in Botany						
8.	Dr. G. Manikandan	Assistant Professor of Botany						
9.	Dr.M. Murugan	Assistant Professor of Botany						
10.	Dr.A. Sarvalingam	Assistant Professor of Botany						
11.	Dr. S. Jeyakumar	Assistant Professor of Botany						
12.	Dr.V. Muniappan	Assistant Professor of Botany						
13.	Mr.G. Varatharaju	Assistant Professor of Botany						
14.	Dr.C. Divya	Assistant Professor of Botany						

The Board of studies meeting was held on 20th July, 2021 through virtual mode. On the basis of feedback received from stakeholders, the revised syllabi under OBE for B.Sc., (Botany), M.Sc., (Botany) and Certificate courses were presented before the Board of studies meeting.

The following recommendations were incorporated in the syllabi in accordance with the suggestions given by the members of the board.

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	Semester	Course code	Course Name	Course code	and the state of t	Content/ Unit	Retained/ Shifted/ Changed/ Introduced	Justification
		18UBYC11	Core Course -I: Plant Diversity I	21UBYC11	Core Course - I: Algae, Fungi, Lichens and Bryophytes	Unit IV	Renamed	Based on the feedback from stakeholders and BOS members, Lichens(Classificatio n, Structure & Reproduction) contents were added in Unit IV
	I	18UBYC1P	Core Course -II: Lab in Plant Diversity I	21UBYC1P	Core Course - II: Practical: Algae, Fungi, Lichens and Bryophytes		Changed	As per suggestions given by BOS members, Lichens specimen (Thallus structure. Usnea and Foliose types) were added
	a a			21UESR11	Ability Enhancement Compulsory Course: Environmental	Unit III and V revised	Interchanged from 6 th semester to 1 st semester	As per UGC norms, the course given to all the UG students. As per suggestions

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			7		Studies			given by BOS
			**			20		members, IUCN &
						F0		WWF, Endangered
								and Endemic
								Species of India
								contents were
								removed instead
						1 - 1		Indian Biodiversity
					is .			Hotspots and IUCN
								Red List Categories
						1		were added in Unit
								III and Human
		130			9.			Population,
						•		Environment and
9								Human health
								content were added
	i i					1		in Unit V
		18UBE11	Enhancement	21UBYS11	Skill Enhancement		Retained	Course Title
			Course - I: Nursery		Course - I: Nursery			renamed
		1	and Landscaping		and Landscape			suggestions given by
			and Bandooaping) a	Management			the subject experts
					i-ianagement			of BOS
	(4	101101/021	C. C. III	241707624	C C III	TT - 24 TT	Climan	Renamed the course
		18UBYC21	Core Course -III:	21UBYC21	Core Course - III:	Unit II	Changed	
			Plant Diversity II		Pteridophytes,	and V		Title as per
					Gymnosperms and	revised		TANSCHE. Based on
8		*	>		Palaeobotany			the BOS experts
	II							suggestions, Ginkgo
				ĺ				and Araucaria plants
								were added in Unit
								III & IV. In Unit V,
					_			Williamsonia plant
								was added and

(4						Lichen content was removed.
18UBYC2P	Core Course -IV: Lab in Plant Diversity II	21UBYC2P	Core Course - IV: Practical: Pteridophytes, Gymnosperms and Palaeobotany		ia ar	Based on the suggestions given by BOS members, Isoetes (Micropreparation, Internal structure) were removed & Araucaria (Micropreparation, Internal structure) were added.
18UBYN21	Non Major Elective course-II: Plant Resources and Utilization			E E	Shifted	As per BOS members suggestions this course is introduced as Major Elective course in Semester V
18UBYE21	Enrichment course-II: Morphology of Angiosperms				Removed the course	The contents of Morphology of Angiosperms were merged with Taxonomy of Angiosperms course in Semester V
s		21UBYS21	Skill Enhancement Course - II: Biofertilizer Technology	Unit II & III	Changed the content	Based on the feedback from stakeholders, Characterization of Azospirillum and

		v.					Azotobacter were introduced
			21UDMG21	Disaster Management		3	
	18UBYC31	Core Course - V: Plant Anatomy and Embryology	21UBYC31	Core Course - V: Plant Anatomy and Embryology	Unit III	Retained	ICT tools and Plant Ontogeny were included as per the BOS members' suggestions
	18UBYC3P	Core Course - VI: Lab in Plant Anatomy and Embryology	21UBYC3P	Core Course - VI: Practical: Plant Anatomy and Embryology		Retained	Principles & application of Microtome were included. Permanent slide preparation was also added.
	18UBYA31	Allied Course - III: Invertebrata	21UBYA31	Allied Course - III: Invertebrata		Retained	
III	18UBYA3P	Allied Course - III: Lab in Zoology-I	21UBYA3P	Allied Course - III: Practical: Zoology-I		Retained	
19			21UBYN31	Non Major Elective course - I: Horticulture		Introduced new course	As per the feedback given by stakeholders and based on the TANSCHE syllabus, this course is introduced.
	18UBYV31	Value Based Course- I: Mushroom Cultivation Technology	21UBYS31	Skill Enhancement Course - III: Mushroom Cultivation Technology	Unit I & IV	Changed the content	The contents in unit I & IV were revised. As per BOS members suggestions, Edible

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	1000.	Core Course - VII: Microbiology and Plant Pathology		Core Course - VII: Microbiology and Plant Pathology	Unit V	Retained T	nd Non edible fushrooms and its futritional ompositions were dded. TMV and WC disease were removed Bunchy top of Banana was
	18UBYC4P	Core Course - VIII: Lab in Microbiology and Plant Pathology	100.00	Core Course - VIII: Practical: Microbiology and Plant Pathology		Retained	-
	18UBYA41	Allied Course - IV: Chordata	21UBYA41	Allied Course - IV: Chordata		Retained	
IV	18UBYA4P	Allied Course - IV: Lab in Zoology – II	21UBYA4P	Allied Course - IV: Practical: Zoology - II		Retained	
IV			21UBYM41	Self paced learning (Swayam courses) 1. Cell culture Technologies		Introduced new course	To mobilize cred transfer through se directed learning.
			21UBYM42	2. Computer Aided Drug Designing		Introduced new course	directed learning.
			21UBYN41	Non Major Elective course - II: Herbal Medicine		Introduced nev course	Based on to feedback given Stakeholders, to course

							introduced.
	18UBYO41	Major Elective Course -I 1. Biology for Entrepreneurship Development	21UBYS41	Skill Enhancement Course - IV: Biology for Entrepreneurship Development	Unit II,III & V	Retained	As per the BOS members suggestions, Eisenia fetida and Azolla pinnata were added. Fighter, Barbs, Platy and sword tail were
	27)	2. Plant Breeding and Evolution 3. Consumer				Changed the content	Removed. The content of this course was merged with Genetics and Plant Breeding in semester VI.
		affairs				This course is Removed	
v	18UBYC51	Core Course - IX: Taxonomy of Angiosperms	21UBYC51	Core Course - IX: Taxonomy of Angiosperms	Unit I & II	Changed the contents	As per the subject expert of BOS suggestions, the ICBN was added in the Unit I. Engler and Prantl classification is replaced with
							Bessey system. Numerical, Molecular and Chemo taxonomy

						were added in Unit II. Unit IV & V were revised based on the IFoS and TRB syllabus.
	Core Course - X: Plant Physiology and Biochemistry	21UBYC52	Core Course - X: Plant Physiology and Biochemistry	Unit II	Changed the content	As per the subject expert of BOS suggestions, Chemo osmosis was added in Unit II.
18UBYC53	Core Course -XI: Cell and Molecular Biology				Shifted to VI semester	
18UBYC5P	Core Course - XII: Lab in Taxonomy of Angiosperms	21UBYC5P	Core Course - XI: Practical: Taxonomy of Angiosperms	Experime nt no. 1,5 & 6	Retained	Dichotomous key, plant identification by using Punch card, were added as per feedback given by the students
18UBYC5Q	Core Course - XIII: Lab in Plant Physiology and Biochemistry	21UBYC5Q	Core Course - XII: Practical: Plant Physiology and Biochemistry	Experime nt No. 6,7 & 8	Retained	Based on the students' feedback, Identification of Amino acid was added.
18UBY051	Major Elective Course – II 1. Floral Biology and Breeding System of Plants	21UBY051	Major Elective Course – I 1. Reproductive Biology of Angiosperms	Unit IV	Nomnclature changed	Based on the BOS members suggestions, EFN is added in Unit IV.

	18UBY052	2. Ethnobotany and Bioresources	a a			semester V	The contents were merged with the course the prospective of medicinal plants.	
».	55 57 67 77		21UBY052	2. Recent Trends in Plant Systematics	Unit IV & V	Nomenclature changed	The contents in unit IV & V were interchanged.	
			21UBY053	3. Emerging Molecular Techniques	Unit I - V	Introduced new course	All the units were shuffled and rearranged. As per BOS members suggestions, Immunoelectrophor osis, Isothermal PCR and 16S RNA method were removed.	
			21UBY054	Major Elective Course - II 1. Economic Botany		Retained	Based on the students and stakeholders suggestions, a few medicinal Plants were Additionally included. The content for AICRPE Ethnobotany Knowledge were	

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							added.
		-	21UBYO55	2. Plant Resources and Utilization		Introduced new course	As per the feedback given by stakeholders and Students, this Course is Introduced
		•	21UBY056	3. Prospective of Medicinal Plants		Introduced new course	As per the feedback given by stakeholders and Students, this Course is Introduced
	18UBYS51	Skill Based Course- II: Biological techniques and Biostatistics	21UBYS51	Skill Enhancement Course - V: Bioinstrumentation and Biostatistics	Unit I	Nomenclature changed	As per the BOS members suggestions, Microtomy, Microscope and one way ANOVA were added.
	18UBYS52	Skill Based Course- III: Forest Botany				Shifted to semester VI	*
			21UBYJ51	Internship		Introduced	As per Alumni feedback, this Course is introduced
VI	18UBYC61	Core Course –XIV: Plant Ecology and Biodiversity Conservation	21UBYC61	Core Course – XIII: Plant Ecology and Phytogeography	Unit II, III, IV & V	Nomenclature changed	Based on Alumni feedback, the content of Phytogeography weas added. Based on the BOS

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	s.						members suggestion, Western Ghats of India was added
	18UBYC62	Core Course - XV: Plant Biotechnology				Shifted from core course to Skill course	The contents were merged with Lab in Plant Biotechnology and given as techniques in Plant Biotechnology in semester VI
	22	5)	21UBYC62	Core Course - XIV: Cell and Molecular Biology	Unit I - V	Revised the content	The contents in all the units were elaborated
	18UBYC63	Core Course - XVI: Genetics	21UBYC63	Core Course - XV: Genetics and Plant Breeding	Unit I - V	Nomenclature changed	The course Contents of Plant Breeding is merged with Genetics and all the units were elaborated
(9.	18UBYC6P	Core Course -XVII: Lab in Plant Ecology and Biodiversity Conservation and Genetics	21UBYC6P	Core Course - XVI: Practical: Plant Ecology and Phytogeography		Nomenclature changed	The content of Phytogeography was added
	18UBYC6Q	Core Course- XVIII: Lab in Plant Biotechnology				Shifted from core course to Skill course	The contents were merged with Plant Biotechnology and given as techniques in Plant

						Biotechnology in semester VI.
		21UBYC6Q	Core Course - XVII: Practical: Cell and Molecular Biology and Genetics	1	Nomenclature changed	As per BOS members suggestions, Observation of Chromosomal structure and SDs page, PCR were added
×.	Major Elective Course - III Palynology and Pollination Biology	21UBYO61	Major Elective Course - III 1. Biodiversity and Conservation	Unit I,II & V	Changed the content The course is changed	Based on the BOS Members the content of hotspots Removed. All content in units were shuffled. Endemism, Biodiversity laws and conservation strategies were added Instead, new course Recent advances in botany were added
18UBYO62	Economic Botany	21UBY062	2. Forest Botany	Unit II,III	Sifted to semester V Changed the	Commercial

			21UBY063	3. Recent Advances in Botany	& V Unit I,II & IV	Introduced new course	plantations, Role of tribals in biodiversity conservation were added and Citrus, Eucalyptus were removed As per BOS members suggestions, Genome project, ICT tools, Therapeutic values, Protein databases, BLAST & FAST were added. Genome sequencing, Computational biology, Pharmacognosy were removed
	18UBYS61	Skill Based Course- IV: Horticulture		**		Sifted to semester III	BOS members suggested to give as Non major elective course
28			21UBYS61	Skill Enhancement Course - VI: Techniques in Plant Biotechnology	Unit I& II	Nomenclature changed	Genetics transformations of Plants, PCR cloning, Binary vectors, Southern and

				Western plot techniques were added. Plasmid DNA, Gene transfer method removed
18UBYV61	Value Based Course-II: Biofertilizers		Sifted to semester II	-

CERTIFICATE COURSES - B.Sc., BOTANY

Semester	Course code	2021-2024 Course Name	Content /Unit	Retained/Sifted/Changed /introduced new course	Justification
III	21UBYEX1	Certificate course in Bee keeping		Introduced the new course	Based on the fed back given from the stakeholders this course in introduced
IV	21UBYEX2	Certificate course in Organic farming	Y2	Introduced the new course	This course introduced to enhance learners knowledge in organic farming
V	21UBYEX3	Certificate course in Bioinformatics		Introduced the new course	This course introduced to enhance learners knowledge in Bioinformatics
VI	21UBYEX4	Certificate course in Pharmacognosy		Introduced the new course	Based on the feedback given by stake holders this course in introduced

M. Sc., BOTANY

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		18PBYC13	Core Course III: Instrumentation and Bio-	-				Sifted to semester III	
	N.		techniques		21PBYC13	Core Course - III: Plant Diversity	Unit I-V		As per the BOS members instructions, The general
		90 -		***		9.7	*		characters of Algae, Bryophytes, Pteridophytes
			350.0 H 78					ene	and Gynosperms were added. The ICT tools were added. SCP, Sporophytes evolution were removed.
£.		18PBYC1P	Core Course IV: Practical I Lab in taxonomy of Angiosperms, Developmental Botany, Instrumentation and Bio- techniques		21PBYC1P	Core Course - IV: Practical: Taxonomy of Angiosperms, Developmental Botany and Plant Diversity		Retained and changed the nomenclature	The content of plant diversity is added. The Bombax, Tectona, and Azadirachta were removed and Lycopodium was added in
								V. March	plant diversity and Isoetes was removed

	PARTY CONTROL OF THE			20	21-2024	Content/	Retained/	Justification
Semester	Code	Course Name	Semester	Course Code	Course Name	Unit	Shifted Changed/ Introduced	
1	18PBYC11	Core Course I: Taxonomy of Angiosperms	I	21PBYC11	Core Course - I: Taxonomy of Angiosperms	Unit I,II & III	Retained	As per the BOS member's suggestion, ICBN and Huitchinson, Takjtajan Classification were added. Salient features and floral characters of Angiosperms were removed.
245	18PBYC12	Core Course II: Developmental Botany		21PBYC12	Core Course - II: Developmental Botany	Unit I & II	Retained	Based on the BOS members instructions, the Structure and Types of meristems, Nodal anatomy, Parthenocarpy, Root transitions & ICT tools were included. The Meristem theory, leaf origin and Parasexual hybridization were removed.

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		Major Elective Course - I:			Major Elective Course - I:			As per the
1		1. Herbal Botany	2		1.Herbal Technology	Unit II & V	Changed the nomenclature	I LO P
	18PBY017	2 2. Biofertilizer Technology		21PBYO12	2. Biofertilizer Technology	Unit II,III & V	Retained	As per BOS members suggestions The Rhizobium, Azotobacter,
	×			0	20	i e		Agni asthiran and Fish amin acid were added
*		,		21PBY01	3 3. Ethnobotany and Bio- resources		Introduced New course	This cours introduced a per feedbac given by alumni
II	18PBYC2	Core Course V: Plant Diversity (Algae, Fungi and Lichens,	п				Shifted to semester I	

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-		Bryophytes, Pteridophytes and Gymnosperms)						
		24.		21PBYC21	Core Course–V: Instrumentation Techniques and Biostatistics and Research Methodology	Unit I, II and V	Changed the nomenclature	Based on the feedback given by alumni, Biostatistics and Research Methodology contents were added. Secondary metabolites, Enzyme assay and Kinetics were removed.
		Core Course VI: Cell and Molecular Biology	e e	21PBYC22	Core Course–VI: Cell and Molecular Biology	Unit I and II		Based on the BOS members suggestions, the Endo symbiotic theory and Epigenetics and histone modification were included.
	18PBYC23	Core Course VII: Bioinformatics and Biostatistics and Plant			Core Course – VII: Plant Biotechnology and		Nomenclature changed	

T	1	biotechnology		Bioinformatics			proteins,	
		bioteciniology		Diomiormatics			Cloning, Bina	ary
		(Biostatistics			1		Vector and Ge	ene
		Content merged					gun. Biostat	tics
		with						was
		Instrumentation					removed a	and
		Techniques and	1 1				merged with	the
		Biostatistics and					course	
		Research					instrumentation	on
		Methodology at					techniques,	
		II sem)	1			100	Biostatics a	and
		la la					research	1
							methodology	at
10.7			rt.	*	+		semester II	
	18PBYC2P	Core Course	21PBYC2P	Core Course -	Experiments	Retained	As per I	BOS
	10121021	VIII: Practical II:		VIII: Practical:	updated		members	950
		Lab in Plant		Instrumentation			suggestion, I	
		Diversity, Cell		Techniques and			techniques w	/ere
		and Molecular		Biostatistics and			added.	
		biology,		Research				
		Bioinformatics,		Methodology,				
		Biostatistics		Cell and				
			,	Molecular				1
				Biology, Plant				
		Z 2		Biotechnology				
		S .		and		· ·		
				Bioinformatics			Marshara	
	18PBYN21	Non Major		Non Major		Introduced	Mushroom cultivation	
		Elective Course	21PBYN21	Elective Course:	1	new course	course is	
		I: Mushroom		Home Gardening		20	changed and	
		Cultivation					new course	
					<u> </u>		new course	

					5 9			introduced Home Gardening.
III	18PBYC31	Core Course IX: Microbiology and Plant pathology	Ш	21PBYC31	Core Course-IX: Microbiology and Plant Pathology	Unit III and V	Retained	Based on the BOS members suggestions, Virology, Plant diseases (Pararetrovirus & Bunchy top of
	18PBYC32	Core Course X:		21PBYC32	Core Course – X:	Unit I. II and	Retained	Banana) were added. As per BOS
		Genetics and Evolution			Genetics and Evolution	IV	notameu	members suggestions, Sex linked inheritance, interaction of genes,
	ş-a						(#	mechanisms of crossing over were included. Classical Genetics were included.
	18PBYC33	Core Course XI: Biochemistry		21PBYC33	Core Course - XI: Biochemistry	Unit II	Retained	Based on the BOS member's suggestion, the Protein folding and conformational changes,

	Þ					æ			Essential and Non essential amino acids and metabolism of AA were added.
			Core Course XII: Practical III Lab in Microbiology and Plant Pathology, Genetics and Evolution and Biochemistry			Core Course – XII: Practical: Microbiology and Plant Pathology and Genetics and Evolution and Biochemistry	Experiments revised	Retained	As per the suggestions given by BOS members, the Phytopathogens and Fungal mycelia staining by lacto phenol cotton blue were included.
			Major Elective Course- II:			Major Elective Course- II:			2
		18PBY031	1.Biodiversity and Conservation		21PBY031	1. Biodiversity and Conservation		Retained	
8 	٠	18PBY032	2.Palynology and Pollination Biology		21PBY032	2. Palynology and Pollination Biology	Unit I	Retained	Based on the BOS members suggestions, Allergic effects of pollen grains was added.
					21PBY033	3. Recent Advances in Botany		Introduced new course	
					Self-paced	Learning - (Swa	ayam Course))	
				1	21PBYM31	1. Forests and		Introduced	To mobilize

4					their Management		new course	credit transfer through self directed learning
		39	2	21PBYM32	2. Applied Environmental Microbiology	27	Introduced new course	To mobilize credit transfer through self directed learning
IV	18PBYC41	Core Course XIII: Plant Physiology	IV	21PBYC41	Core Course - XIII: Plant Physiology	Unit II, III, IV and V Content revised	Retained	Based on the BOS Members suggestion, the Bennet clark theory, Structure and function of chloroplast and mitochondria, phytochrome were added.
3	18PBYC42	Core Course XIV: Plant Ecology	- 10	21PBYC42	Core Course - XIV: Plant Ecology		Retained	
	18PBYC4P	Core Course XV: Practical IV Lab in Plant Physiology and Plant Ecology		21PBYC4P	Core Course - XV: Practical: Practical: Plant Physiology and Plant Ecology	1	Retained	
	18PBYJ41	Core Course XVI: Project		21PBYJ41	Core Course – XVI: Project		Retained	-
				21PBYEX1	Certificate Course in Waste Management		Newly Introduced	Based on the feedback given by stakeholders, this course is

		introduced
21PBYEX2 Certif Cours Phyto chem	se in Introduced	This course is introduced to enhance the learners' knowledge on phytochemistry
Mode	se in cular eling and cular	This course is introduced to enhance the learners' knowledge on Molecular Modeling and Molecular Docking

Members Present:

S. No.	Board Members	Name and Designation	
1.	Chairman of the Board	Dr. M. Sujatha Head & Assistant Professor Department of Botany Sri Kaliswari College (Autonomous), Sivakasi.	M. Rujuth.
2.	University Nominee	Dr. P. Gopal Assistant Professor Department of Plant Biotechnology Madurai Kamaraj University, Madurai -625021	Dr. P. GOPAL Assistant Professor Department of Plant Biotechnology School of Biotechnology Madural Kamaraj University Madural - 825 001 T.T.V., mora.
3.	Academic Expert 1.	Dr.R. Ramasubbu Assistant Professor Department of Biology The Gandhigram Rural Institute (Deemed to be University), Gandhigram Dindigul District.	
4.	Academic Expert 2.	Dr M.Venkatesan Assistant Professor, Department of Botany, Sourashtra College, Madurai	DILAMARNKATESAN. M. JC PILL HEAD AND ASSISTANT PROFESSOR DEPARTMENT OF BOTANY SOURASHTRA COLLEGE (AUTONOMOUS) MADURAL - 625 UD4
5.	Industrialist	Mr. R. Govindaraj Sri Marutham Agro Biotech, Madurai	WIADUNAL - 020 004
6.	Alumnus	Mr. V. Sakkamuthu Field Assistant, DST Project Kalasalingam School of Agriculture and Horticulture Kalasalingam Academy of Research and Education (Deemed to be University), Anand Nagar, Krishnankovil.	

7.	Dr.R. Narayana Prakash	Guest Faculty in Botany	Ristony auses
8.	Dr. G. Manikandan	Assistant Professor of Botany	gur f.
9.	Dr.M. Murugan	Assistant Professor of Botany	Munge.os
10.	Dr.A. Sarvalingam	Assistant Professor of Botany	p. Colors
11.	Dr. S. Jeyakumar	Assistant Professor of Botany	
12.	Dr.V. Muniappan	Assistant Professor of Botany	1.00
13.	Mr.G. Varatharaju	Assistant Professor of Botany	ASP
14.	Dr.C. Divya	Assistant Professor of Botany	08.354

M. Dright. Signature of Chairman of the Board

Dean of Academic affairs

Principal