

SRI KALISWARI COLLEGE (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 : **Biotechnology**
Date : 14.07.2021
Course : B.Sc., Biotechnology and M.Sc., Biotechnology

Members Present:

S.No.	Board Members	Name and Designation
1.	Chairman of the Board	Dr. M. Sujatha Head & Assistant Professor of Biotechnology Sri Kaliswari College (Autonomous), Sivakasi.
2.	University Nominee	Dr. M. Jayalakshmi Assistant Professor Department of Immunology School of Biological Sciences Madurai Kamaraj University, Madurai
3.	Academic Expert 1.	Dr. S. Venkatesh Assistant Professor, Department of Biotechnology M.S University, Tirunelveli.
4.	Academic Expert 2.	Dr.G.Sridevi Assistant Professor, Department of Plant Biotechnology, School of Biotechnology, Madurai Kamaraj University, Madurai
5.	Industrialist	Mr.K.Aruldoss Happyman Natural manure, Organic fruits and Vegetables Pavali, Virudhunagar

6.	Alumna	Ms. S. Ranjini Assistant Professor, Department of Biotechnology, Arulmigu Kalasalingam College of Arts and Science Krishnankoil.
Members		
7.	Dr. R. Narayana Prakash	Guest Faculty in Biotechnology
8.	Mrs. P. Devi	Assistant Professor in Biotechnology
9.	Mrs. G. Mareeswari	Assistant Professor in Biotechnology
10.	Dr. V. Pradeepa	Assistant Professor in Biotechnology
11.	Dr. P. Suganya	Assistant Professor in Biotechnology
12.	Dr. A. Rajalakshmi	Assistant Professor in Biotechnology
13.	Mr. T. Victor Athisayam	Assistant Professor in Biotechnology
14.	Mr. R. Kalidoss	Assistant Professor in Biotechnology

The Board of Studies Meeting was held on 14th July, 2021 through Virtual Mode. On the basis of the feedback received from stakeholders, the revised syllabi under OBE for B.Sc., (Biotechnology), M.Sc., (Biotechnology), Certificate and Diploma 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.

B.Sc Biotechnology

Semester	2018-2021		2021-2024		Content / Unit	Retained/ Shifted Changed/ Introduced the New course	Justification
	Course code	Course Name	Course code	Course Name			
I	18UBTC11	Core Course - I: Cell Biology	21UBTC11	Core Course - I: Cell Biology and Genetics	Unit IV & V	Changed	Based on the feedback received from the stakeholders the content for cell biology is reduced and the contents for Genetics were added. Disorders of coagulation removed.
	18UBTC1P	Core Course - II: Lab in Cell Biology and Genetics	21UBTC1P	Core Course - II:Practical: Cell Biology and Genetics	Experiment No: 7 &8	Changed	Some advanced hands-on experiments were added in Cell Biology practical.
			21UBTS11	Skill Enhancement Course - I: Biotechnology and Human Welfare		Introduced new course	As per the feedback received from the students, thiscourse is introduced to familiarize the learners with basic concepts in Biotechnology and its application.
	18UBTN11	Non Major Elective Course-I: Human Diseases - Communicable Diseases				Shifted to Semester- III	To give a better understanding of the Interdisciplinary Courses, it is shifted to Semester III.
	18UBTE11	Enrichment				Changed	To give importance to

Semester	2018-2021		2021-2024		Content / Unit	Retained/ Shifted Changed/ Introduced the New course	Justification
	Course code	Course Name	Course code	Course Name			
		Course -I: Fundamentals of Genetics					genetics concepts, it is given as a core course along with cell biology
II	18UBTC21	Core Course- III: Biochemistry	21UBTC21	Core Course - III: Biochemistry and Metabolism	Unit I – V	Nomenclature changed	The contents related to metabolism were included in all units. 1 st Unit gluconeogenesis, glycogenesis, glycogenolysis were incorporated.
	18UBTC2P	Core Course -IV : Lab in Biochemistry	21UBTC2P	Core Course - IV: Practical: Biochemistry	Experiment No:3, 6 &8	Changed	Some new experiments were included
	18UBTE21	Enrichment Course-II: Human Physiology	21UBTS21	Skill Enhancement Course - II: Plant and Animal Physiology	Unit III-V	Nomenclature Changed	Based on the feedback received from the stakeholders the content for Plant physiology and animal physiology is merged. As per the suggestion given by the subject experts the course content of the syllabus was reduced.
	18UBTN21	Non Major Elective Course-II: Human Diseases – Non					Shifted to Semester- IV

Semester	2018-2021		2021-2024		Content / Unit	Retained/ Shifted Changed/ Introduced the New course	Justification
	Course code	Course Name	Course code	Course Name			
		Communicable Diseases					Semester IV.
III	18UBTC31	Core Course -V: Microbiology	21UBTC31	Core Course - V: Microbiology		Retained	In Unit IV, Mucomycosis, SARS and Covid 19 were incorporated.
	18UBTC3P	Core Course -VI: Lab in Microbiology	21UBTC3P	Core Course - VI:Practical: Microbiology		Retained	
	18UBTA31	Allied Course-III : Biological Sciences	21UBTA31	Allied Course - III: Biological Sciences		Retained	
	18UBTA3P	Allied Course-III: Lab in Biological Sciences	21UBTA3P	Allied Course - III: Practical: Biological Sciences		Retained	
			21UBTN31	Non Major Elective course - I: Infectious Diseases		Nomenclature changed from Human diseases Communicable and Noncommunica ble diseases	The course content for new epidemic and pandemic diseases were included.
			21UBTS31	Skill Enhancement Course - III: Practical: Entrepreneurship in Biotechnology – I		Introduced new course	As per the feedback received from the stakeholders, this course is introduced to improve the Entrepreneurship skills in Biotechnology

Semester	2018-2021		2021-2024		Content / Unit	Retained/ Shifted/ Changed/ Introduced the New course	Justification
	Course code	Course Name	Course code	Course Name			
	18UBTS31	Skill Based Course-I: Basic Concepts of Biotechnology				Nomenclature changed and Shifted to Semester-I	To make the students familiarize with basic concepts in Biotechnology in the beginning of the course it was shifted to Semester- I
	18UBTV31	Value Based Course- I: Medicinal Plants				Shifted to Semester-V	
IV			21UBTC41	Core Course - VII: Molecular Biology and Microbial Genetics		Nomenclature & contents Changed, introduced in Semester IV (Previously in Semester VI)	The contents were elaborated.
			21UBTC4P	Core Course - VIII:Practical: Molecular Biology and Microbial Genetics	Experiment No : 1,4,5,7, 10 & 11	Nomenclature & contents Changed, introduced in Semester IV (Previously in Semester VI)	As per the feedback received from the stakeholders new experiments were included. Removed demonstration of protein separation by SDS-PAGE as it is repeated in Bioanalytical tools course
	18UBTC41	Core Course -VII :				Shifted to	

Semester	2018-2021		2021-2024		Content / Unit	Retained/ Shifted/ Changed/ Introduced the New course	Justification
	Course code	Course Name	Course code	Course Name			
		Immunology and Immunotechnology				Semester- VI	
	18UBTC4P	Core Course -VIII : Lab in Immunology and Immunotechnology				Shifted to Semester- VI	
			21UBTA41	Allied Course - IV: Bioanalytical Tools		Introduced new course	As per the feedback received from the stakeholders, this job oriented course is introduced
			21UBTA4P	Allied Course - IV:Practical: Bioanalytical Tools		Introduced new course	To provide hands on training about Bioinstruments to students, this course is introduced
	18UBTA41	Allied Course-IV: Food Biotechnology				Shifted to Semester- V	Introduced as the Core course
	18UBTA4P	Allied Course-IV: Lab in Food Biotechnology				Shifted to Semester- V	Introduced as the Core course
	18UBTO41	Major Elective Course-I: Biostatistics				Shifted to Semester- V	
	18UBTO42	Major Elective Course-I: Fundamentals of				Retained	This course is given as Self-paced learning

Semester	2018-2021		2021-2024		Content / Unit	Retained/ Shifted Changed/ Introduced the New course	Justification
	Course code	Course Name	Course code	Course Name			
		Drug Designing					
	18UBTO43	Major Elective Course-I: Consumer affairs				Changed the Course	
			21UBTM41	Self-paced learning (Swayam Course) Cell Culture Technologies		Introduced the new course	To mobilize credit transfer through self-directed learning
			21UBTM42	Self-paced learning (Swayam Course) Computer-Aided Drug Designing		Introduced the new course	To mobilize credit transfer through self-directed learning
			21UBTN41	Non-Major Elective course - II: Mushroom Cultivation		Introduced new course	To enhance the entrepreneurship skills this course is offered other major students. and the course content was elaborated.
			21UBTS41	Skill Enhancement Course - IV:Practical: Entrepreneurship in Biotechnology – II		Introduced new course	As per the feedback received from the stakeholders, this course is introduced to improve the Entrepreneurship skills in Biotechnology
	18UBTC51	Core Course -IX:	21UBTC51	Core Course - IX:	Unit I-V	Changed	The content of all the

Semester	2018-2021		2021-2024		Content / Unit	Retained/ Shifted Changed/ Introduced the New course	Justification
	Course code	Course Name	Course code	Course Name			
V		Plant Biotechnology		Plant Biotechnology			units were elaborated
	18UBTC52	Core Course -X: Industrial Biotechnology				Shifted to Semester-VI	
	18UBTC53	Core Course -XI: Animal Biotechnology	21UBTC52	Core Course - X: Animal Biotechnology	Unit I-V	Changed	The content was elaborated.
			21UBTC53	Core Course - XI: Food Biotechnology	Unit I-V	Changed	Introduced as a Core course and the content in all the units was elaborated.
	18UBTC5P	Core Course -XII: Lab in Plant, Animal and Industrial Biotechnology	21UBTC5P	Core Course - XII: Practical: Plant, Animal and Food Biotechnology	Experiment No: 3,5,7& 12-17	Nomenclature Rephrased (Industrial Biotechnology shifted to Semester VI, instead Food Biotechnology is added)	New experiments were added and content for Food Biotechnology is included.
			21UBTO51	Major Elective Course – I Biostatistics	Unit I-V	Changed	The content in all the units was enriched
			21UBTO52	Major Elective Course – I Biophysics		Introduced new course	

Semester	2018-2021		2021-2024		Content / Unit	Retained/ Shifted/ Changed/ Introduced the New course	Justification
	Course code	Course Name	Course code	Course Name			
			21UBTO53	Major Elective Course – I Bio – Instrumentation		Introduced new course	
	18UBTO51	Major Elective Course-II: Bioinformatics				Shifted to Semester-VI	
	18UBTO52	Major Elective Course-II Genetically modified crops	21UBTO54	Major Elective Course – II Genetically Modified Organisms	Unit I&II	Changed	The course content for Genetically modified organisms were added
	18UBTO53	Major Elective Course-II Natural Products (Secondary metabolites)	21UBTO55	Major Elective Course – II Natural products		Retained	The contents were elaborated.
			21UBTO56	Major Elective Course – II Medicinal Plants	Unit I - V	Changed	The content in all the units was elaborated. Ancient Formulation was included.
	18UBTS52	Skill Based Course -III: Cancer Biology	21UBTS51	Skill Enhancement Course - V: Nanobiotechnology and Cancer Biology	Unit I- III	Changed	The course content for nanobiotechnology is added with cancer Biology. Unit II contents were revised.

Semester	2018-2021		2021-2024		Content / Unit	Retained/ Shifted Changed/ Introduced the New course	Justification
	Course code	Course Name	Course code	Course Name			
	18UBTS51	Skill Based Course - II: IPR, Bioethics and Biosafety				Shifted to Semester-VI	
VI	18UBTC61	Core Course XIII : Recombinant DNA Technology	21UBTC61	Core Course - XIII: Recombinant DNA Technology and Forensic Science	Unit IV- V	Changed	The course content for Forensic Science is added along with Recombinant DNA Technology.
			21UBTC62	Core Course - XIV: Immunology and Immunotechnology		Retained	
	18UBTC62	Core Course XIV: Molecular Biology and Molecular Genetics				Shifted to Semester IV	
			21UBTC63	Core Course - XV: Industrial Biotechnology	Unit I - V	Changed	The course content in all the units was elaborated.
	18UBTC6P	Core Course XV: Lab in Recombinant DNA Technology	21UBTC6P	Core Course - XVI: Practical: Recombinant DNA Technology and Industrial Biotechnology	Experiment No:11-14	Nomenclature Changed	The experiments for Industrial Biotechnology were included. SDS PAGE was removed and Downstream processing was included.
			21UBTC6Q	Core Course - XVII: Practical: Immunology and		Retained	

Semester	2018-2021		2021-2024		Content / Unit	Retained/ Shifted/ Changed/ Introduced the New course	Justification
	Course code	Course Name	Course code	Course Name			
				Immunotechnology			
	18UBTC6Q	Core Course XVI: Lab in Molecular Biology and Molecular Genetics				Shifted to Semester IV	
			21UBTO61	Major Elective Course – III IPR, Bioethics and Biosafety	Unit I & II	Changed	The course content was elaborated in Unit I and II.
			21UBTO62	Major Elective Course – III Evolutionary Biology		Introduced new course	This course is introduced for the betterment of the students to appear for the competitive examinations
	18UBTO61	Major Elective Course-III Stem cell Biology	21UBTO63	Major Elective Course – III Stem Cell Biology		Retained	Contents were elaborated.
	18UBTO62	Major Elective Course-III Biochemical techniques				Changed the course	For better understanding of Biotechnological instruments, Bioanalytical tools course was introduced.
	18UBTO63	Major Elective Course-III DNA finger printing				Changed the course	

Semester	2018-2021		2021-2024		Content / Unit	Retained/ Shifted Changed/ Introduced the New course	Justification
	Course code	Course Name	Course code	Course Name			
	18UBTS61	Skill Based Course-IV: Functional Genomics	21UBTS61	Skill Enhancement Course - VI: Bioinformatics and Functional Genomics	Unit-I, II & III	Changed	The course content for Bioinformatics is added with Functional genomics
	18UBTV61	Value Based Course-II: Nano Biotechnology				Shifted to Semester-V	

Certificate/Diploma Course: B.Sc Biotechnology

Semester	Certificate/ Diploma Course	2021-2024		Content/ Unit	Retained/ Shifted Changed/ Introduced	Justification
		Course code	Course Name			
III	Certificate course	21UBTEX1	Certificate course in Medical coding		Introduced the new course	Based on the feedback received from the stakeholders, this job oriented course is introduced
IV	Certificate course	21UBTEX2	Certificate Course in Herbal Technology		Introduced the new course	This course has been introduced to enhance the knowledge of learners in traditional Herbs and its importance

Semester	Certificate/ Diploma Course	2021-2024		Content/ Unit	Retained/ Shifted Changed/ Introduced	Justification
		Course code	Course Name			
V	Diploma Course	21UDBTEX1	Medical lab technology		Introduced the new course	Based on the feedback received from the stakeholders and local need medical lab technology course is introduced as diploma course
VI	Diploma Course	21UDBTEXP	Practical: Medical lab technology		Introduced the new course	Based on the feedback received from the stakeholders and local need medical lab technology course is introduced as diploma course

M.Sc Biotechnology

Semester	Course code	Course Name	Course code	Course Name	Content/ Unit	Retained/ Shifted Changed/ Introduced	Justification
I	18PBTC13	Core Course III: Cell and Molecular Biology	21PBTC11	Core Course - I: Cell and Developmental Biology		Introduced new content and Nomenclature changed	Based on the feedback received from the stakeholders NET/SET syllabus based course was introduced.
	18PBTC11	Core course I: Biochemistry	21PBTC12	Core Course - II: Biomolecules	Unit I	Changed	To understand the basic concept of enzymes new contents were added. As per the suggestions given by BOS members, Unit IV – Primary, secondary, quaternary structure of proteins and Ramachandran plot were incorporated.
	18PBTC12	Core course II: Microbiology	21PBTC13	Core Course - III: Microbiology and Microbial Genetics		Changed	Based on the feedback received from the students to enrich the course content Microbial genetics was included.

Semester	Course code	Course Name	Course code	Course Name	Content/ Unit	Retained/ Shifted Changed/ Introduced	Justification
	18PBTC1P	Core course IV: Practical I: Lab in Biochemistry and Microbiology	21PBTC1P	Core Course - IV: Practical: Biomolecules, Microbiology and Microbial Genetics	Experiment No 12,13,&14	Changed	Due to the addition of Microbial genetics new experiments were added to the course
	18PBTO11	Major Elective Course – I: Biophysics and Biostatistics			Unit III & IV	Shifted to Semester – IV and Nomenclature changed from Biophysics and Biostatistics to Bioinstrumentation and Biostatistics	To give a better understanding this course was shifted to Semester IV
	18PBTO12	Major Elective Course – II: Bioinformatics				Shifted to Semester – II	Based on the suggestion received from the student to gain a elaborated knowledge in computational biology, this course converted as a core course.
			21PBTO11	Elective course I: Inheritance and Evolutionary Biology		Introduced new course	Based on the feedback received from the stakeholders NET/SET syllabus

Semester	Course code	Course Name	Course code	Course Name	Content/ Unit	Retained/ Shifted Changed/ Introduced	Justification
							based course was introduced.
			21PBTO12	Elective course I: Stem cell biology		Introduced new course	Based on the feedback received from the students current research trend oriented paper was introduced.
			21PBTO13	Elective course I: Enzymes and Enzyme technology		Retained	
II	18PBTC21	Core course V: Immunology and Immunotechnology	21PBTC21	Core course V: Immunology and Immunotechnology	Unit III, IV & V	Retained	Based on the feedback received from the students course content was enriched. Ethical guidelines for biomedical research from Unit III was shifted to Unit V.
II	18PBTC22	Core course VI: Recombinant DNA technology	21PBTC22	Core course VI: Genetic Engineering	Content revised	Nomenclature changed from Recombinant DNA technology to Genetic engineering	To Enrich the syllabus the course content was elaborated.
			21PBTC23	Core course VII: Bioinformatics	Content revised	Retained	Based on the feedback received

Semester	Course code	Course Name	Course code	Course Name	Content/ Unit	Retained/ Shifted Changed/ Introduced	Justification
							from the students course content was elaborated and shifted from Elective course to Core course. Unit III and Unit IV was interchanged.
	18PBTC23	Core course VII: Microbial genetics					Merged with Microbiology in Semester – I
	18PBTC2P	Core Course - VIII: Practical II: Lab in Immunology, Recombinant DNA technology and Microbial genetics	21PBTC2P	Core Course - VIII: Practical: Immunology and Genetic Engineering	Experiment no 11,12,13,14	Nomenclature changed	Based on the feedback received from the students new and advanced techniques were included. Instead of DEMO PCR, PCR hands on experiment was included in the major experiment.
	18PBTN21	Non Major Elective Course – I: Concepts in Biotechnology	21PBTN21	Non Major Elective Course - I: Food Science		Introduced new course	Food science course was introduced as the non major elective course
III	18PBTC31	Core course – IX: Plant Biotechnology	21PBTC31	Core course –IX: Plant and Animal Biotechnology	Content Revised	The nomenclature of the course was changed from	Based on the feedback received from the students Plant and Animal

Semester	Course code	Course Name	Course code	Course Name	Content/ Unit	Retained/ Shifted Changed/ Introduced	Justification
						Plant Biotechnology to Plant and Animal Biotechnology	biotechnology syllabus was merged. As per suggestion given by BOS member new contents were added in Unit IV and V.
	18PBTC32	Core course – X: Animal Biotechnology			Content Revised	The nomenclature of the course was changed from Animal Biotechnology to Plant and Animal Biotechnology	Based on the feedback received from the students Plant and Animal biotechnology syllabus was merged.
			21PBTC32	Core course –X : Bioprocess technology	Content revised		
			21PBTC33	Core course – XI : Agricultural and Environmental Biotechnology		Introduced new course	Based on the feedback received from the stakeholders NET/SET syllabus based course was introduced. As per the suggestion the order of the Unit contents were


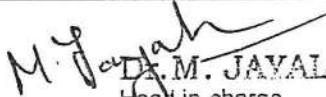
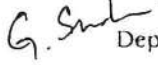
Semester	Course code	Course Name	Course code	Course Name	Content/ Unit	Retained/ Shifted/ Changed/ Introduced	Justification
							interchanged.
	18PBTC33	Core course- XI: Genomics and Proteomics				Retained and Shifted to Semester - IV	
	18PBTC3P	Core course XII: Practical III: Lab in Plant Biotechnology and Animal Biotechnology	21PBTC3P	Core course XII: Practical III: Plant , Animal, and Bioprocess technology	Experiment no – 11,12,13&14 was added	changed	The experiments for Bioprocess technology were included
			21PBTO31	Elective course II: IPR,Bioethics and Biosafety		Introduced new course	Based on the feedback received from students, this course is introduced
			21PBTO32	Elective course II: Molecular Oncology	Content revised	Retained	
			21PBTO33	Elective course II: Industrial Safety and Regulations		Introduced new course	Based on the feedback received from the students and college IPR cell, Entrepreneurship based course was introduced
	18PBTO31	Major elective Course II: Enzymes and Enzyme technology			Content revised	Shifted to Semester -I	For better understanding of the basics of enzymes this course shifted to semester I


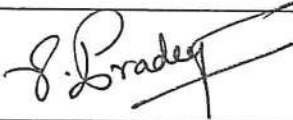

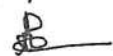

Semester	Course code	Course Name	Course code	Course Name	Content/ Unit	Retained/ Shifted Changed/ Introduced	Justification
			21PBTM31	Self- paced Learning- Forest and their Management		Introduced the new course	To mobilize credit transfer through self-directed learning
			21PBTM32	Self- paced Learning – Applied Environmental Microbiology		Introduced the new course	To mobilize credit transfer through self-directed learning
IV			21PBTC41	Core course – XIII: Bioinstrumentation and Biostatistics		Nomenclature changed from Biophysics and Biostatistics to Bioinstrumentation and Biostatistics	The course content was elaborated based on the feedback received from the students
			21PBTC42	Core course – XIV: Genomics and Proteomics		Retained	
			21PBTC43	Core course – XV: Research methodology		Introduced new course	Based on the feedback received from the students, Research methodology was introduced.
	18PBTJ41	Core course XV: Project	21PBT41	Project		Retained	


Certificate/Diploma Course: M.Sc Biotechnology


Semester	Certificate/ Diploma Course	Course code	Course Name	Content/ Unit	Retained/ Shifted Changed/ Introduced	Justification
II	Certificate course	21PBTEX1	Certificate course in Medicinal and Pharmaceutical chemistry		Introduced the new course	This course is introduced to enhance better understanding of Medicinal and Pharmaceutical chemistry
III	Diploma Course	21PDBTEX1	Water Quality analysis		Introduced the new course	Based on the feedback received from the stakeholders and local needs water quality analysis is introduced
IV	Diploma Course	21PDBTEX2	Water and its Pollution Management		Introduced the new course	Based on the feedback received from the stakeholders and local needs this course is introduced

Members Present:

S.No.	Board Members	Name and Designation	Signature
1.	Chairman of the Board	Dr. M. Sujatha Head & Assistant Professor of Biotechnology Sri Kaliswari College (Autonomous), Sivakasi.	
2.	University Nominee	Dr. M. Jayalakshmi Assistant Professor Department of Immunology School of Biological Sciences Madurai Kamaraj University, Madurai	 Dr. M. JAYALAKSHMI, Ph.D., Head in-charge Dept. of Immunology School of Biological Sciences Madurai Kamaraj University Madurai-625 021
3.	Academic Expert 1.	Dr. S. Venkatesh Assistant Professor, Department of Biotechnology M.S University, Tirunelveli.	
4.	Academic Expert 2.	Dr.G.Sridevi Assistant Professor, Department of Plant Biotechnology, School of Biotechnology, Madurai Kamaraj University, Madurai	 Dr.G.Sridevi Assistant Professor Department of Plant Biotechnology School of Biotechnology Madurai Kamaraj University Madurai - 21
5.	Industrialist	Mr.K.Aruldoss Happyman Natural manure, Organic fruits and Vegetables Pavali, Virudhunagar	
6.	Alumna	Ms. S. Ranjini Assistant Professor, Department of Biotechnology, Arulmigu Kalasalingam College of Arts and Science Krishnankoil.	

Members			
7.	Dr. R. Narayana Prakash	Guest Faculty in Biotechnology	
8.	Mrs. P. Devi	Assistant Professor in Biotechnology	P. Af.
9.	Mrs. G. Mareeswari	Assistant Professor in Biotechnology	G. Mareeswari
10.	Dr. V. Pradeepa	Assistant Professor in Biotechnology	
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Signature of chairman of the Board


Dean of
Academic Affairs


Principal