

FATIMA COLLEGE (Autonomous), MADURAI - 625 018

MINUTES OF THE BOARD OF STUDIES

NAME OF THE DEPARTMENT: B.Sc ZOOLOGY

TO BE IMPLEMENTED FROM: 2023 - 2024 ONWARDS

VENUE: Department of Zoology

CONVENED ON: 05.04.2023

CONVENED AT: 02.00 pm

MEMBERS PRESENT

1. Dr. A. Tamil Selvi

Head of the Department

 05/04/2023

2. Dr. V. Shanmugaiah

University Nominee

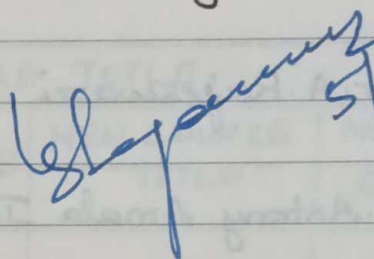
Assistant Professor

Department of Microbial Technology

School of Biological Sciences

Madurai Kamaraj University

Madurai - 625 021

 5/4/23

3. Dr. P. J. Joslin

Subject Expert

Associate Professor

PG & Research Department of Zoology

St. Mary's College (Autonomous)

Thoothukudi - 628 001

P. J. Joslin

5/4/2023

4. Dr. R. Uma Maheswari

Subject Expert

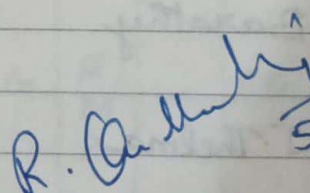
Assistant Professor

PG Department of Zoology

Anulmigu Palaniandavar

Arts College for Women

Palani - 624 615

 5/4/23

5. Dr. A. Vanniarajan Scientist Aravind Medical Research Foundation Madurai - 625020	Industrialist / Scientist A. Vanniarajan 05/04/23
6. Miss. S. Susaritha Research Scholar PG & Research Department of Zoology The American College Madurai - 625020	Alumna S. Susaritha 05.04.23
7. Dr. A. Rajeswari	Dean of Academic Affairs A. Rajeswari 05/4/23
8. Dr. Antony Amala Jayaseeli	Staff Member Antony Amala Jayaseeli 05/04/23
9. Dr. N. Malathi	Staff Member N. Malathi 5/4/2023
10. Dr. J. Asnet Mary	Staff Member Asnet Mary 5/4/2023
11. Dr. V. Bharathy	Staff Member V. Bharathy 5/4/23
12. Dr. N. Nagarani	Staff Member N. Nagarani 5/4/23
13. Dr. S. Barathy	Staff Member S. Barathy 5/4/23
14. Mrs. J. Thelma	Staff Member J. Thelma 5/4/23
15. Mrs. D. Kayathri	Staff Member D. Kayathri 5/4/23

MINUTES OF THE BOARD OF STUDIES:

1. PRESENTATION OF THE ACTION TAKEN REPORT ACTION TAKEN REPORT FOR 2022-2023

S. NO	COMMON SUGGESTIONS OFFERED IN THE PREVIOUS BOARD	ACTION TAKEN FOR THE ACADEMIC YEAR 2022-23
1.	Hands-on training may be provided to the students whenever possible.	Hands-on training is given to the students in all possible ways.
2.	Biostatistics problems can be given using real-time data collected from the field.	Field data is used for Biostatistical analysis.

CHANGE OF COURSE TITLE

S. NO	OLD COURSE CODE	NEW COURSE CODE	OLD COURSE CODE	NEW COURSE TITLE	NEED FOR CHANGE
-	-	NIL	-	-	-

NEW COURSES INTRODUCED

S. NO	COURSE CODE	COURSE TITLE	RELEVANCE TO				SCOPE FOR			NEED FOR INTRODUCTION
			L	R	N	G	EMP	ENT	SD	
1.	22Z6SB6	Poultry Farming	L	R	N	G	EMP	ENT	SD	To enhance the entrepreneurial aspects of the Programme
2.	21Z4SLN1	Public Health & Hygiene	L	R	N	G	EMP	-	SD	Offered to the advanced learners

REVISED COURSES

S. NO	COURSE CODE & COURSE TITLE	UNIT NO & REVISED CONTENT	%. of Revision	NEED FOR REVISION	RELEVANCE TO					SCOPE FOR		
					L	R	N	G		E	M	S
1.	19Z4CC10 Microbiology	The Following topics are included -UNIT-II- Bacteria- autotrophic & heterotrophic nutrition, aerobic & anaerobic respiration, Beneficial & harmful role of bacteria. UNIT-III viruses - Lytic & Lysogenic cycle, Transmission of viruses in plants, animals & man.	10 %	As per the guidelines of Academic Deans & recommendation of course teachers	-	-	N	G		E	M	S
2.	19Z4SB2 mushroom cultivation	The following topic are included in Unit-II Cultivation of techniques compost- materials for compost preparation - methods of composting characteristics of compost- spawning- methods, Types, Storage - Spawn running	10 %	Guidelines of Academic Deans & recommendation of course Teachers	L	R	N	G		E	M	S
3.	19Z5CC15 Lab - Biochemical Analysis	Sagaguchi test & separation of aminoacids by circular paper chromatography are included. Thin Layer chromatography is included as spotters	10 %	As per the guidelines of Academic Deans	L	R	N	G		E	M	S
4.	19Z5CC16 Lab - Molecular Biology	Isolation of UV mutations using - colony plate - Replica plating, setting up of Southern blotting, Chemical mutagenesis & genotoxicity analysis are included. Agrose gel electrophoresis & SDS-PAGE are included as spotters	10 %	As per the guidelines of Academic Deans & Recommendation of course Teachers	L	R	N	G		E	M	S

5.	19Z5ME2 Animal Behaviour	The following topics are included Unit I - Hormonal Regulation of Behaviour, Ethogram, Unit - II Social & Reproductive behaviours - Strategies of mating system, Mating behaviour of penguins	10 %	As per the guidelines of Academic Deans & Recommend ation of course Teachers	L	R	N	G	E M P	-	S D
6.	19Z6CC19 Lab - Immunology	ELISA, Western Blot, Flow cytometry are included as spotters. Amniocentesis, Pregnancy diagnostic kit, Haemocytometer, Centrifuge and Semi automated analyzer are included as spotters in Clinical Laboratory Techniques	10 %	As per the guidelines of Academic Deans & Recommend ation of course Teachers	L	R	N	G	E M P	-	S D
7.	19Z6CC20 Lab - Biotechnology	Isolation of genomic DNA from goat liver/bacteria, Isolation of genomic DNA from plants are included. Souther blotting & UV transilluminator are included as spotters	10 %	As per the guidelines of Academic Deans & Recommend ation of course teachers	L	R	N	G	E M P	-	S D
8.	19Z6ME4 Clinical Laboratory Techniques	The following topic are included - Unit II, Analysis of urine, Benedict's test, Benedict's protein test, Nitroprusside test Unit III - Hematology, Erythrocyte Sedimentation Rate, Unit IV - Semen analysis, Cryopreservation, chorion villus sampling and Foetoscopy	10 %	As per the guidelines of Academic Deans & Recommend ation of course Teachers	L	R	N	G	E M P	-	S D

2. UPDATION OF OPEN EDUCATIONAL RESOURCES

S. NO	COURSE CODE	COURSE TITLE	DETAILS OF UPDATION
-	-	-	NIL

3. REVISION OF COURSES

REVISION OF COURSES			NEED FOR REVISION	RELEVANCE TO				SCOPE FOR			
S. NO	COURSE CODE + COURSE TITLE	UNIT NO + REVISED CONTENT		L	R	N	G	EM	PT	SD	
1.	19Z3CC9 Lab - Human Physiology & Environmental Biology	Determination of BMI + Blood pressure among the students & Estimation of Haemoglobin are included under Human Physiology experiments. Oculometer is included as spotter. Study of diversity of flora & fauna in terrestrial using Quadrant method is included under Environmental Biology	12 %	As per the guidelines of Academic Deans & the recommendation of course teachers	-	-	N	G	EM	PT	SD
2.	19Z4CC12 Lab - Microbiology & Evolution	Preparation of different types of Media, Isolation of micro organisms from soil, air & water, Qualitative analysis of Milk - methylene blue reductase test are included as experiments in Microbiology. Hot air oven & colony counter are included as spotters.	12 %	As per the guidelines of Academic Deans & recommendation of course teachers	-	-	N	G	EM	PT	SD
3.	21Q4ACZ4 Lab - Developmental Botany & Plant Breeding	Transverse sectioning of Dicot Stem showing secondary growth, mounting of Anisocytic, Paracytic & Diacytic Stomata & Identification of Globular, Chordate & mature stages of embryo in Tridax are included as experiments.	12 %	As per the guidelines of Academic Deans & recommendation of course teachers	-	-	N	G	EM	PT	SD

4.	19Z5CC14 Molecular Biology	The following topics are included in Unit-III - Transcription in Prokaryotes - Pribnow box, difference between Prokaryote and Eukaryotic transcription, Reverse transcription & inhibitors of transcription. Protein targeting to Mitochondria & other organelles, protein degradation - intron splicing & covalent modification	15 %	As per the guidelines of Academic Deans & recommendations of course teachers	-	-	NG	-	-	SD
5.	19Z5SB4 Sericulture	History of Sericulture, Sericulture Research Institutes in India; Eri, Tasar & Muga silks are included in unit-I - Introduction to Sericulture Propagation - vegetative cutting, Grafting & layering methods Application & significance of Biofertilizers are included in unit-II	10 %	As per the guidelines of Academic Deans & Recommendation of course Teachers	L	R	NG	EM P	ENT	SD
6.	19Z6ME3 Embryology	In vitro fertilization - Test tube baby & Assisted Reproductive Technology ART, IVF, ICSI, GIFT, ZIFT Embryo Transfer & Bioethics are included in Unit V - Human Embryology	10 %	As per the guidelines of Academic Deans & Recommendation of course teachers	-	-	NG	-	-	SD
7.	19Z6ME6 Entomology	General structure & modifications of antennae, mouth parts, legs & wings are specified and the topic mechanism & significance of Bioluminescence is included in unit-II morphology and metamorphosis.	10 %	As per the guidelines of Academic Deans & Recommendation of course Teachers	-	-	NG	-	-	SD

4. NEW COURSES INTRODUCED

NEW COURSES INTRODUCED										NEED FOR INTRODUCTION
S. NO	COURSE CODE	COURSE TITLE	RELEVANCE TO				SCOPE FOR			
			L	R	N	G	EMP	ENT	SD	
1.		Herbal cosmetics	L	R	N	G	EMP	ENT	SD	For the advanced Learners

5. INTRODUCTION OF PURELY SKILL-EMBEDDED CERTIFICATE / DIPLOMA / ADVANCED DIPLOMA: NIL

S. NO	COURSE CODE	COURSE TITLE	MOU WITH INDUSTRY/ ORGANIZATION	SKILLS SHARPENED	COURSE OUTCOME
—	—	NIL	—	—	—

6. APPROVAL OF Ph.D COURSE WORK SYLLABUS: NIL

7. RUBRICS FOR INTERNSHIP / PROJECT: NIL

S. NO	C1 20 MKS	C2 20 MKS	CIA TOTAL 40 MKS	EXTERNAL 60 MKS
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Details of Proposed / Signed MOUs — NIL

SUGGESTIONS	COMMENDATIONS
1. In addition to the Scientific names of the organisms, their common names can also be included. 2. Field visits can be included as a part of the skill based / Lab Courses.	1. Changes made in the content of all the revised courses are useful and appropriate. 2. Inclusion of new experiments in the Lab Courses will improve the Skills of the Students.

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