

FATIMA COLLEGE (Autonomous), MADURAI-625 018

MINUTES OF THE BOARD OF STUDIES

NAME OF THE DEPARTMENT: M.Sc Zoology

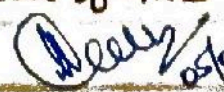
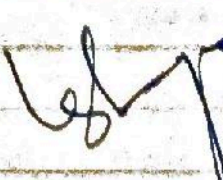
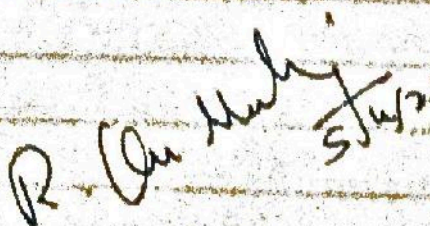
TO BE IMPLEMENTED FROM: 2023-2024 ONWARDS

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  05/04/23
2. Dr. V. Shanmugaiah Assistant Professor Department of Microbial Technology School of Biological Sciences Madurai Kamaraj University Madurai-625 021	University Nominee  5/4/23
3. Dr. P.J. Joslin Associate Professor Pn + Research Department of Zoology St. Mary's college (Autonomous) Thoothukudi - 628 001	Subject Expert P. J. Joslin 5/4/2023
4. Dr. R. Uma Maheswari Assistant Professor Pn 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 - 625 020

Industrialist / Scientist

A. Vanniarajan 05/04/23

6. Miss. S. Subaritha
Research Scholar
PG & Research Department of
Zoology
The American College
Madurai - 625 020

Alumna

S. Subaritha 05/04/23

7. Dr. A. Rajeswari

Dean of Academic Affairs

A. Rajeswari 05/04/2023

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. Janet Mary

Staff member

Janet 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.	Handson training may be provided to the students whenever possible	Handson training is given to the students.
2.	Biostatistics problems may be worked using real-time data obtained from Research articles.	Real-time data is used for Biostatistical analysis.

CHANGE OF COURSE TITLE

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

NEW COURSES INTRODUCED

S. NO	COURSE CODE	COURSE TITLE	RELAUVANCE To			SCOPE FOR			NEED FOR INTRODUCTION
-	-	NIL	-	-	-	-	-	-	-

REVISED COURSES

S. NO	COURSE CODE * COURSE TITLE	UNIT NO & REVISED CONTENT	Y. of REV	NEED FOR REVISION	RELAUVANCE To				SCOPE FOR			
					L	R	N	G	E	E	S	D
1.	19PG123 Cell & Molecular Biology	Following topics are added Unit I- overview of Cell Biology Topics - microfilaments & microtubules structure & Dynamics. Microtubules & Mitosis. Cell movements	10 %	As per the guidelines of academic Deans & recommendation of	-	-	N	G	-	-	S	D

		role of Kinetin + Dyenin. Unit-II - Brief account on Genome, Transcriptome + Proteome. Regulation of Eukaryotic genome replication		course teachers						
2.	19P43Z11 Biophysics	Unit-V - Biophysical principles applied to physiology - Topics included Biophysical aspects of hearing, noise and speech - mechanism of hearing - auditory an non- -auditory effects of noise pollution.	10%	As per the guidelines of Academic Deans & Recommen- -dation of course Teachers	--	N	G	--		
3.	19P43Z13 Biostatistics & Research Methodology	Unit-V - Thesis writing - Topics included - Literature review - Source, Structure and Stages of Literature Search - Critical review. Ethics in Research	10%	As per the guidelines of Academic Deans & Recommen- dation of course Teachers	--	N	G		E M P	--
4.	19P44Z16 Environ- -mental Biology	Unit - III - Natural Resources Topics included - Distribution, Types - surface water, ground water, management and conservation of water resources	10%	As per the guidelines of academic Deans & Recommen- dations of course Teachers	L	R	N	G	--	--
5.	19P44ZE3 Economic Zoology	Following topics are included - Unit-I - Apiculture - Social organization and life cycle - Behaviour of Honey bees. Unit II - Sericulture - Topics included - Moniculture, vegetative propagation and seeding	10%	As per the guidelines of Academic Deans & Recommen- dation of course Teachers	L	R	N	G	--	E N T

2. Updation of Open Educational Resources

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

3. Revision of Courses

S. NO	COURSE CODE & TITLE	UNIT NO & REVISED CONTENT	Y. OF REV	NEED FOR REVISION	Relevance To			Scope For			
					L	R	N	G	E M P	E N T	S D
1.	19PG13Z12 Immunology	GALT & CALT are included in Unit I - Overview of the Immune System. Abzymes, Antigen - Antibody interactions - Radial immunodiffusion, double immunodiffusion, Agglutination reactions: haemagglutination, bacterial agglutination, passive agglutination, agglutination inhibition are included in Unit - II - Antigens & Antibodies	12%	As per the guidelines of Academic Deans & Recommendation of Course Teachers	-	-	N	G	-	-	S D
2.	19PG13Z14 Lab in Biophysics & Biostatistics	pH titration curve of acid-base using strong acid vs weak base and Effect of UV or Infra Red Radiation on the bacterial growth are included as experiments in Biophysics. Analysis of Data using Ms Excel is included under Bio statistics.	10%	As per the guidelines of Academic Deans & Recommendation of Course Teachers	L	R	N	G	E M P	-	S D
3.	19PG13ZE1 Fisheries &	The Following topics are included in -		As per the guidelines of	L	R	N	G	E M P	E N T	S D

Aquaculture

Unit IV - Fish pathology and Post Harvest Technology - Topics included - Processing of Prawn: Fish marketing - Domestic market - marine, brackish + inland, marketing + Export Market; Role of cooperative society.

Unit V - Indian Fishery - Topic included - Ethics - National Biodiversity Authority

Academic Deans + recommendations of course Teachers

12 %

4. 19PG4Z18

Developmental Biology

The Following topics are included in Unit I - Introduction to Developmental Biology - Cryopreservation of gametes and embryos - Ethical issues. Unit-II - Fertilization - prevention of polyspermy. Unit-V - organogenesis + post embryonic development - Biology of senescence - causes.

10 %

As per the guidelines of Academic Deans + Recommendations of course Teachers

- - N G - - S D

5. 19PG4Z20

Lab in Biotechnology, Economic Zoology + Ethology

Rhizogenesis, caulogenesis, Embryogenesis + Synthetic seeds are included under Plant Tissue culture Techniques.

15 %

As per the guidelines of Academic Deans + Recommendations of course Teachers

L R N G E M P - S D

Ti plasmid isolation from Agrobacterium cultures for the selection of transformed cell and cell viability: Dye exclusion test are included as experiments in Biotechnology

4. New courses Introduced:

NEW COURSES INTRODUCED										
S. NO	COURSE CODE	COURSE TITLE	RELEVANCE TO				SCOPE FOR			NEED FOR INTRODUCTION
-	-	NIL	-	-	-	-	-	-	-	-

5. Introduction of purely skill-embedded certificate/Diploma/Advanced Diploma

S. NO	COURSE CODE	COURSE TITLE	MOD WITH INDUSTRY/ORGANISATION	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
-	-	-	-	-

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.	1. Changes made in the content of all the revised courses are useful and appropriate.
2. Field visits can be included as a part of the Skill based/ Lab courses.	2. Inclusion of the topic ethical issues in the course content of Developmental Biology is appreciable.

1.	Dr. A. Tamil Selvi	Head of the Department A. Tamil Selvi 05/04/23
2.	Dr. V. Shanmugaiah	University Nominee V. Shanmugaiah 5/4/23
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4.	Dr. R. Uma Maheswari	Subject Expert R. Uma Maheswari 5/4/23
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