

ZOOLOGY BOARD OF STUDY MEETING.

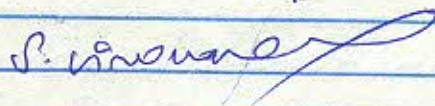
18.1.2013.

1. UG and PG and Career Oriented Program Board of Study meeting was conducted in the Zoology department ^{on today 2 to 4 PM.} course content syllabus and practical syllabus was thoroughly analysed, discussed and certain changes was done.
2. Career Oriented Programme syllabus was discussed.
3. ~~Following~~ Resolution was passed, ^{approved} to interchange the ^{PG} Developmental Biology and ~~(Genetics)~~ ^{Genetics} from III Semester to IV Semester and ^{PG} ~~Developmental Biology~~ ^{Developmental Biology} & practical from IV Semester to III Semester.

1. DR. P. RAJENDRAN


18/1/2013

2. DR. S. DINAKARAN.



3. K. ARUNJANAI RAJAN

K.A.R. 18/1/13


4. V. SHANMUGAVELU



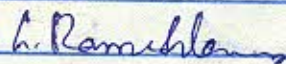
5. K. NAGESHARAN



6. P. VIJJI



7. G. RAMESHKUMAR



8. E. DAVID BENHER.



9. B. GOVINDARATAN



10. J. MAREESWARAN.




11. N. ALAGUMANIKUMARAN

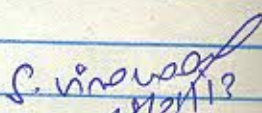



12. P. JEEADEESAN






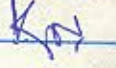





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Minutes of II Year BSc, MSc, Ancillary Zoology
& Career oriented Program
Board of Studies meeting held on 18.01.2013
at 2.0 P.M.

Members Present
University Nominee: Dr. P. Rajendran 
Associate Professor, Department of Zoology
Mira-Kananda College, Thiruvodiyam.
18/1/2013

Subject Experts: Dr. S. Dinakaran
Associate Professor 
Department of Zoology
Mira-Kananda College, Madurai.
18/1/13

Alumnus: Mr. K. Anandharajan
Assistant Professor 
Department of Zoology
Govt Arts & Science College
Madurai.
18/1/13

Members Present

V. Shanmugavel	
Dr. P. Jaganathan	
E. David Babbar	
K. Nagarajan	
M. Abhishek Kumar	
P. Viji	
G. Ramesh Kumar	
J. Merudwat	
Y. Anand Kumar	
B. GOVINDARAJAN	BGR

Resolutions-

1.

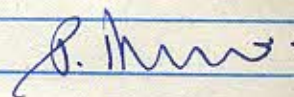
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BOARD OF STUDY MEETING
RESOLUTION

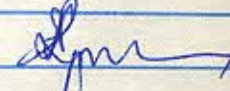
1. UG Acad. ~~Pr.~~ Board of study meeting was conducted in the Zoology UG lab on today (7-12-2013). Course content, syllabus and practical syllabus was thoroughly analysed, discussed and certain changes were done for Semester - V and VI.

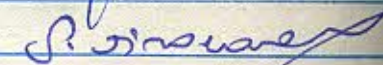
2. Credit for the Core paper ^(U, ZYCB3) EVOLUTION has been given as 4 in the syllabus skeleton instead of 5. It is resolved to re-allocate as 5 credits and total hours per semester should be 75.


3. It is resolved to change ^{the} title of ϕ (U, ZYAB1) Allied - III paper - 4 (~~Agri~~ ^{Sericulture}) as SUK REELING TECHNOLOGY.

4. It is resolved to make the following correction for the paper Microbiology and Immunology (B-9) as 5 credits 5 hours (~~4 hours~~ / semester) instead of 4 credits / 4 hours.

1. P. Rajendran, Vivekananda College, Tiruvannamalai. 

2. P. ARAGESAN, Yadava College, Madurai - 

3. S. DINAKARAN, Madurai College, Madurai. II. 

4. K. ARUNJUNAI RAJAN, GOVT. ARTS COLLEGE MELUR 

1. V. SHANMUGA SELU

B. S. S. S.

2. E. DAVID BENHER

N. S. S.

3. K. NAGARAJAN

N. S. S.

4. P. PREMA

N. S. S.

5. P. VIJI

P. Viji

6. G. RAMESHKUMAR

G. Rameshkumar

7. N. ALAGUMANIKUMAR

N. Alagumanikumar

8. D. KUMAR

D. Kumar

9. A. NDORTHEEN

A. N. Dorthleen

10. B. GOVINDARAJAN

B. Govindarajan

11. P. JEGADEESAN

P. Jegadeesan

12. G. RAMESHKUMAR

G. Rameshkumar

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skis
88(Bm-9)

28.3.2015. BOARD of Study MEETING.

10 am to 1.30 pm. Resolutions Venue: Zoology Lab.

1. Bsc Zoology & M.Sc Zoology Board of Study meeting was conducted in the Zoology Lab laboratory on today 28.3.2015. Course content syllabus was thoroughly analysed discussed and certain changes were done for the 2 year Bsc and 2 year M.Sc papers.

2. It is resolved to change the ^{title of} the P.M.Sc Theory & Practical paper "GENETICS" title to a new title as "MOLECULAR GENETICS" in the second semester.

3.

3. It is resolved to change the title of P.M.Sc paper in second semester ~~BIostatistics~~ COMPUTER APPLICATIONS AND BIOINFORMATICS as ~~BIostatistics AND BIOINFORMATICS~~ BIostatistics AND BIOINFORMATICS. ~~by~~ and slight alterations were done in this paper.

4. It is resolved to have "HUMAN ANATOMY" as Extra credit paper.

1. Dr. L. SAIKARAN, ANNA College, Sivakasi - Tirunelveli

2. Dr. M. SHUNMUGAVELU, Dept. of Zoology
Vivekananda College, Tiruvudogam - west

3. K. NAGARAJAN. *Mep*

4. P. JEGADEESAN *duvinnay*

5. G. RAMESHKUMAR *G. Rameshkumar*

6. D. KUMAR *D. Kumar*

7. E. DAVID BENTER.

C. Dean

8. P. PREMA

PR

9. P. VIJJI

Vijj

10. DR. A. NOORTHEEN

A. Noortheen

11. B. GOVINDARAJAN

Ben

12. V. SHANMUGASELU

Shan

20.02.2016

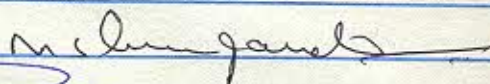

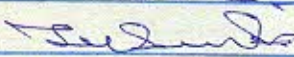

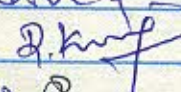
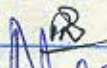
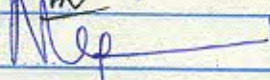
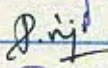
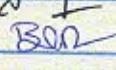
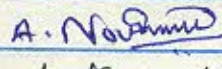
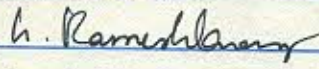
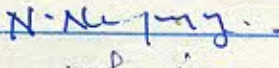
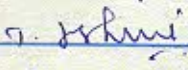

BOARD OF STUDY MEETING

10 am to 1.30pm

Resolutions

Venue: Computer Lab

1. B.Sc Zoology & M.Sc Zoology Board of Study meeting was conducted in the Zoology Computer Lab (M.Phil) on today 20.02.2016 Course Contents Syllabus was thoroughly analysed discussed and certain changes was done for the II B.Sc Major Auxiliary, Semiculture, II Botany, Auxiliary Zoology & II M.Sc. papers (Theory & practical syllabus)

1. Dr. M. SHANMUGAVELU 
2. Mr. M. RAJESA 
3. Dr. L. ISAIARASU 
4. V. SHANMUGAVELU 
5. Dr. D. KUMAR 
6. P. PREMA 
7. Dr. K. NAHARASAN 
8. P. VIJJI 
9. B. GOVINDARASAN 
10. Dr. A. NOORTHEEN 
11. G. RAMESHKUMAR 
12. Dr. N. N. NAHARASAN 
13. T. ANNALARSHMI 
14. P. JEGADEESAN 

BOARD OF STUDIES MEETING.

III. B.Sc Zoology and Ancillary paper Board of Studies Meeting was convened on today 07.03.2017 (Tuesday) in U6 lab. of Zoology Department, and the following resolutions were made.

1. Syllabus for all the papers were thoroughly discussed.
2. Necessary changes were made in ~~all~~ the papers.
3. It is resolved to concise the length ^{of the} title of the Ancillary Sericulture papers.
 - (a) Mulberry Silk worm Rearing and Genetics of Silk worm

Mulberry Silk worm Rearing and Silk worm Genetics

(A) SUBJECT EXPERTS

- 1) Dr. P. VELLADURAI
- 2) Dr. G. BAGAVATHIAPPAN
- 3) Dr. V. RAMADASS

~~Dr. V. Ramadass~~
~~Dr. G. Bagavathiappan~~
~~Dr. P. Velladurai~~

MEMBERS PRESENT

1. Prof. V. Shanmugavel
2. Mr. E. David Benher
3. Dr. K. Nagarajan
4. Dr. P. Prema
5. Dr. T. Annalatchmi
6. Mr. G. Ramaiah Kumar
7. Mrs. P. Viji
8. Dr. D. Kumar
9. Dr. A. Noorheen
10. Dr. M. Kennan
11. Mr. B. Govindarajan
12. Dr. N. Nagarajan

~~Dr. V. Ramadass~~
~~Dr. G. Bagavathiappan~~
~~Dr. P. Velladurai~~
~~Dr. T. Annalatchmi~~
~~Dr. D. Kumar~~
~~Dr. A. Noorheen~~
~~Dr. M. Kennan~~
~~Dr. N. Nagarajan~~

BOARD OF STUDIES.

Date: 17.02.2018.

Time: 10 AM. Venue: Zoology Conference Hall.

The syllabus of I UG and I PG is discussed and the following modifications are made.

I UG syllabus.

1. Core lab title "Invertebrate Practical" has been suggested to change as "Lab on Invertebrata".
2. In SBE-2, Applied Zoology-I, in unit IV, two diseases have been newly added.
3. In chordata paper practicals, in Dissections part, "Frog digestive system - demonstration" has been suggested to change as "Frog digestive system: Book Plate / Model only."
4. In Animal Diversity & Adaptation II Paper, in unit IV, "Evolution of Reptilia" has been deleted.

I PG syllabus.

1. In core I, cell and molecular Biology Paper, in unit III, "Protein synthesis" has been added.
2. In core II, Biochemistry and Biophysics, in unit II, "Animal Hormones" have been deleted.
3. Core 3, "Techniques in Biology" has been changed as "Biological Techniques".

Members Present:

1. Mr. E. David Benber, The Head.

E. David Benber

2. Dr. P. Velladurai,

P. Velladurai

3. Dr. V. Ramadas

V. Ramadas
17/2/18

4. Dr. P. Prem.

P. Prem
17/2/2018

5. Mr. N. Aksumdikumar.

N. Aksumdikumar
17/2/18

6. Mr. G. Rameshkumar.

G. Rameshkumar
17/2/2018

7. Mrs. P. Viji.

P. Viji
17/2/18

8. Dr. D. Kumar.

D. Kumar
17/2/18

9. Dr. A. Noortheen.

A. Noortheen
17/2/18

10. Dr. M. Kennan.

M. Kennan

11. Dr. T. Durai Anand.

T. Durai Anand

12. Dr. N. Nagarajan.

N. Nagarajan

13. Mr. B. Govindarajan.

B. Govindarajan

BOARD OF STUDIES MEETING OF ZOOLOGY

Date: 23.02.2019

MINUTES OF THE MEETING

The Board of Studies meeting of II UG and II PG Programme was held today at 11.00 am. in the Department of Zoology. After having a detailed discussion, the Board resolved the following:

UG Zoology:

1. In UG Syllabus Resolved to included the topics in unit No. I, III, IV and V of cell biology leading to 5, 5, 10, and 5% of change in the existing syllabus of the course.
2. Resolved to included the topics in unit No. I, II, III, IV and V of Sericulture I leading to 20, 20, 20, 20 and 15% of change in the existing syllabus of the course.
3. Resolved to included the topics in unit No. III, IV and V of developmental biology leading to 5, 5 and 5% of change in the existing syllabus of the course.
4. Resolved to included the topics in lab in cell biology and developmental biology leading to 60% of change in the existing syllabus of the course.
5. Resolved to included the topics in unit No: I, II, III, IV, and V of Sericulture-II leading to 15, 20, 15, 20 and 20% of change in the existing syllabus of the course.
6. Resolved to included the topics in lab in sericulture I and sericulture II leading to 90 and 90% of change in the existing syllabus of the course.
7. Resolved to included the topics in Unit No: II of Allied Zoology II leading to 5% of change in the existing syllabus of the course.

PGZ Zoology

9. In PGZ Zoology to introduce Research methodology course to be introduced a Elective -2 in the III Semester for M.Sc Zoology Programme replacing the existing course Sericulture.

10. Resolved to included the topics in Unit no: I, III, IV and V of Immunology leading to 5, 5, 5 and 5% of change in the existing syllabus of the course.

11. Resolved to included the topics in Unit No: I, II, III, IV and V of Developmental biology leading to 20, 20, 15, 20 and 20% of change in the existing syllabus of the course.

12. Resolved to included the topics in Unit no: I, II, III, IV and V of Evolution leading to 20, 20, 20, 15 and 20% of change in the existing syllabus of the course.

13. Resolved to included the topics in lab in Immunology leading to 20% of change in the existing syllabus of the course.

14. Resolved to included the topics in lab in Developmental biology leading to 60% of change in the existing syllabus of the course.

15. Resolved to included the topics in Unit No: V of Microbiology leading to 5% of change in the existing syllabus of the course.

16. Resolved to included the topics in Unit No: II, III, IV and V of Animal physiology leading to 5, 15, 5, 5 and 25% of change in the existing syllabus of the course.

17. Resolved to included the topics in lab in Microbiology leading to 5% of change in the existing syllabus of the course.

18. Resolved to include the topics in Lab in Animal Physiology leading to 30% of change in the existing syllabus of the course.

19. Resolved to move Developmental Biology course to the III Semester and Microbiology ~~Gen~~ course to the IV semester.

20. Resolved to include Project in the final semester and the ratio between the internal and external shall be 50:50. The external evaluation shall be done by conducting viva voce individually to all the candidates by an external examiner.

21. The following Titles are finalized for III BSc Zoology.

Course Name : Bachelor of Science -III Year


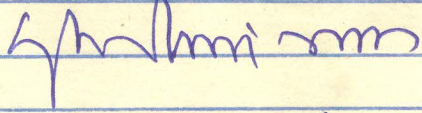
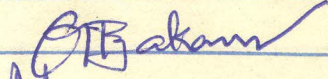
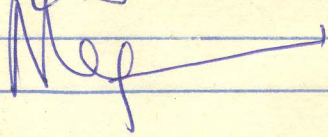


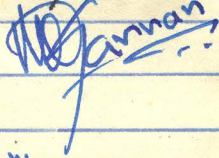
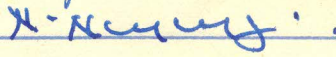

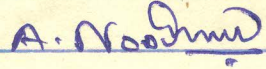

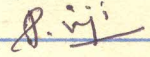
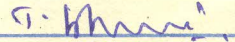
Discipline : Zoology

Sem	Part	Subject	Credit	Hour	Int+Ext=Total	Subject Code
V	Core - 7	Animal Physiology	5	5	25+75=100	
	Core - 8	Genetics & Biostatistics	5	5	25+75=100	
	Core - 9	Microbiology and Immunology	4	4	25+75=100	
	Core Lab	LAB: Animal Physiology	-	2	-----	
	Core Lab	LAB: Genetics & Biostatistics	-	2	-----	
	Core Lab	LAB: Microbiology and Immunology	-	2	-----	
	Allied II - 3	Sericulture -III	4	4	25+75=100	
	Allied II - 3 Lab	LAB: Sericulture - III	-	2	-----	
	SBE - 5	Employability Skills	2	2	25+75=100	
	NME - 1	Ornamental Fish Culture	2	2	25+75=100	
VI	Core - 10	Ecology & Evolution	5	5	25+75=100	
	Core - 11	Biochemistry	5	5	25+75=100	
	Core - 12	Biotechnology	5	4	25+75=100	
	Core Lab -	LAB: Animal Physiology, Genetics & Biostatistics	2	2	40+60=100	
	Core Lab -	LAB: Ecology, Evolution and Biochemistry Practical	2	2	40+60=100	
	Core Lab -	LAB: Microbiology and Immunology and Biotechnology	2	2	40+60=100	
	Allied II- 4	Sericulture -IV	4	4	25+75=100	
	Allied II - 4 Lab	LAB: Sericulture -III and IV.	2	2	40+60=100	
	SBE - 6/ Project	Computer Applications and Information technology	2	2	25+75=100	
	NME - 2	Human Biology	2	2	25+75=100	

Self Learning Courses:

Subject	Semester	Credit	Ext =Tot	Subject Code
Human Rights	IV	5	100 = 100	

F
MEMBERS PRESENT :

1. E. DAVID BENHER . 
2. Dr. K. BALAKRISHNAN 
3. Dr. G. BAKAVATHIAPPAN 
4. Dr. K. NAGARAJAN 
5. Dr. P. PREMA 
6. Dr. D. KUMAR 
7. Dr. M. KANNAN. 
8. Dr. N. NAGARAJAN 
9. T. Durai Anand. 
10. Dr. A. NOORTHEEN 
11. G. RAMESHKUMAR 
12. P. VIJ? 
13. Dr. T. ANNALARAJAM 



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

[Re-accredited with 'A' Grade by NAAC]

Virudhunagar – 626 001.

BOARD OF STUDIES MEETING OF B.Sc. ZOOLOGY HELD ON 21.09.2019

MINUTES OF THE MEETING

The Board of Studies Meeting of B.Sc. Zoology was held today at 11 a.m. in the Department of Zoology. After having a detailed discussion, the Board resolved the following:

1. Resolved to revise the syllabus of the courses for III B. Sc ZOOLOGY and ALLIED ZOOLOGY as follows:

Semester V

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
CORE-7	Animal physiology U2ZYC51	Animal physiology U3ZYC51	Skill Development	40
CORE-8	Genetics	Genetics & Biostatistics U3ZYC52	Skill Development	60
CORE-9	Microbiology & immunology	Microbiology & immunology	Employability	30
ALLIED II-3	Mulberry silkworm rearing & Silkworm Genetics	Allied Sericulture III	Employability, Entrepreneurship	80
NME-1	Ornamental Fish Culture	Ornamental Fish Culture	Employability, Entrepreneurship	10

Semester VI

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
CORE-10	Ecology	Ecology and Evolution	Skill Development	40
CORE-11	Biochemistry	Biochemistry	Skill Development	60
CORE-12	Evolution	Biotechnology	Entrepreneurship	New
ALLIED II-4	Silk Reeling Technology	Sericulture IV	Employability, Entrepreneurship	30
SBE-6	Biotechnology	Project	Employability	
NME-2	Human Biology	Human Biology	Skill Development	10
CORE LAB-10	Animal Physiology & Genetics	Animal Physiology & Genetics and Biostatistics	Skill Development	20
CORE LAB-11	Ecology & Biochemistry	Ecology and Evolution & Biochemistry	Skill Development	30
CORE-LAB-12	Microbiology and Immunology & Evolution	Microbiology and Immunology & Biotechnology	Skill Development	Revised / 100
ALLIED II-4 LAB	Mulberry Silkworm Rearing and Genetics of Silkworm and Silk Reeling Technology	Sericulture III and IV	Skill Development	60



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

[Re-accredited with 'A' Grade by NAAC]

Virudhunagar – 626 001.

ALLIED ZOOLOGY

Semester V

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
ALLIED II	Cell Biology, Developmental Biology, Physiology, Immunology and Evolution	Cell Biology, Developmental Biology, Physiology, Immunology and Evolution	Skill Development	40

Semester VI

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
ALLIED II	Commercial Zoology (Vermiculture, Apiculture, Aquaculture and Poultry Science and Dairy Farming)	Commercial Zoology	Skill Development	20
ALLIED II - LAB	Cell Biology, Developmental Biology, Physiology, Immunology and Evolution	Cell Biology, Developmental Biology, Physiology, Immunology and Evolution and Commercial Zoology	Skill Development	20

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

- Resolved to include Project in the final semester and the maximum marks for the projects shall be 100. There shall be **single internal valuation only**.
- Resolved to introduce compulsory Group Project (2 to 5 students per faculty member) in the Sixth Semester instead of SBE6-Biotechnology. Modalities for the project submission and evaluation have to be formulated by the department.
- Resolved to approve the panel of Examiners suggested by the members of the Board as given in Annexure – II.

Members Present:

Name	Category	Signature
Mr. E. David Benher	Chairman	
Dr. S.P. Sevarkodiyone	Subject Expert	
Dr. K. Sahayaraj	Subject Expert	
Dr. R. Singaravel	Alumnus	



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Dr. K. Nagarajan	Member	
Dr. P. Prema	Member	<i>PR</i> 21/9/2019
Dr. N. Alagumanikumar	Member	
Mr. G. Rameshkumar	Member	<i>G. Rameshkumar</i>
Ms. P. Viji	Member	<i>P. Viji</i> 21/9/19
Dr. D. Kumar	Member	<i>D. Kumar</i>
Dr. A. Noortheen	Member	<i>A. Noortheen</i>
Dr. M. Kannan	Member	<i>M. Kannan</i>
Dr. T. Durai Anand	Member	<i>T. Durai Anand</i>
Dr. N. Nagarajan	Member	<i>N. Nagarajan</i>
Dr. T. Annalakshmi	Member	<i>T. Annalakshmi</i>



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BOARD OF STUDIES MEETING OF UG & PG ZOOLOGY HELD ON 28.04.2021

MINUTES OF THE MEETING

The Board of Studies Meeting of I. Year UG and I. Year PG Zoology was held today at 11.00 a.m by Virtual mode via Google Meet Platform. After having a detailed discussion, the Board resolved the following:

LIST OF BOARD OF STUDIES MEMBERS:

1.	Dr.K.Nagarajan, Head and Associate Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Chairperson
2.	Dr.K.Shameem Rani, Associate Professor, MSS Wakf Board College, Dept. of Zoology, Madurai	University Nominee
3.	Dr.S.P.Sevarakodiyone, Head and Associate Professor, Dept. of Zoology, ANJA College, Sivakasi	Subject Expert
4.	Dr.K.Sahayaraj, Head and Associate Professor, Dept. of Zoology, St.Xavier College, Palayamkottai	Subject Expert
5.	Dr.R.Singaravel, Director, Aqua Care Biological Pvt.Ltd. Thiruvalluvar street, Virudhunagar	Alumnus
6.	Mr.D.Ravi, Quality Assurance Manager, VV Marine Products, Thoothukudi	Corporate Sector
7.	Dr.P.Prema, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member
8.	Dr.N.Alagumanikumar, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member
9.	Mr.G.Rameshkumar, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member
10.	Mrs.P.Viji, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member
11.	Dr.D.Kumar, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member
12.	Dr.A.Noorthen, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member
13.	Dr.M.Kannan, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member
14.	Dr.T.Duraianand, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member



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15.	Dr.N.Nagarajan, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member
16.	Dr.T.Annalakshmi, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member
17.	Dr.B.Govindarajan, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member

After detailed discussions following resolutions were made,

- 1. It is resolved to include the Field Visit/Field Trip for the I Year B.Sc Zoology students to any Research Institute/Specimen collection in Marine coastal area/Aquaculture farm/Vermiculture etc. from the academic year 2021-2022.**
- 2. It is resolved that each I. B.Sc Zoology student should submit Field visit report on the Summative Practical Exam and it should be assessed for 5 marks.**
- 3. It is resolved to include Field Visit/Field Trip for the I Year PG NME Zoology students to any Research Institute/Specimen collection in Marine coastal area/Aquaculture farm/Vermiculture etc. from the academic year 2021-2022. Each student should submit the Field visit report as Assignment and it should be assessed for 5 marks.**

Semester : I

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Core Lab U4ZYC2P	LAB:Invertebrata and Chordata	Same title with no change LAB:Invertebrata and Chordata	Skill development	Inclusion of Field visit/Field trip

Semester : II I Year PG NME

Subject	Title of the	Title of the	Focus on	Revised / New /
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Core / Elective / SBE / NME / SLS	Existing Course	Course after revision	Employability / Entrepreneurship / Skill Development	No Change / Interchanged If revised % of change
NME P19ZYN21	Economic Zoology	No Change in the title Economic Zoology	Skill development	Inclusion of Field visit/Field trip

Members Present:

Name	Category	Signature
1. Dr.K.Nagarajan, Head and Associate Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Chairman	Present
2. Dr.K.Shameem Rani, Associate Professor, MSS Wakf Board College, Dept. of Zoology, Madurai	University Nominee	Present
3. Dr.K.Sahayaraj, Head and Associate Professor, Dept. of Zoology, St.Xavier College, Palayamkottai	Subject Expert	Present
4. Mr.D.Ravi, Quality Assurance Manager, VV Marine Products, Thoothukudi	Corporate Sector	Present
5. Dr.P.Prema, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member	Present
6. Dr.N.Alagumanikumar, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member	Present
7. Mr.G.Rameshkumar, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member	Present
8. Mrs.P.Viji, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member	Present
9. Dr.D.Kumar, Assistant Professor, Dept. of Zoology,	Member	Present



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VHNSN College, Virudhunagar		
10.Dr.A.Noorthen, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member	Present
11.Dr.M.Kannan, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member	Present
12.Dr.T.Duraianand, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member	Present
13.Dr.N.Nagarajan, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member	Present
14.Dr.T.Annalakshmi, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member	Present
15.Dr.B.Govindarajan, Assistant Professor, Dept. of Zoology, VHNSN College, Virudhunagar	Member	Present

28.04.2021

Dr.K.NAGARAJAN
Head and Associate Professor
Department of Zoology
V.H.N.S.N.College (Autonomous)
Virudhunagar



ZOOLOGY BOARD OF STUDIES MEETING HELD ON 19.03.2022

MINUTES OF THE MEETING

The Board of Studies Meeting of **Zoology** was held today at **10.30a.m.** in the Department of Zoology Conference Hall. After having a detailed discussion, the Board resolved the following:

- I. Resolved to fix the complete papers for the Zoology UG (3 Year skeleton) & PG (2 Year Skeleton) programme (Annexure - I)
- II. Resolved to revise the syllabus of the courses in detailed manner for I year UG & PG Zoology papers as follows: (Annexure – II)
- III. It is resolved to have the following Zoology faculties of various colleges to act as External examiners for question paper setting as well as Paper evaluation for the UG & PG Zoology papers in our college. (Annexure – III)
- IV. Resolved to introduce in the department of Zoology from the academic year 2022-2023 onwards. (Annexure – IV)

Course Name : Bachelor of Science

Discipline : Zoology

(For those who joined in June 2022 and after)

COURSE SCHEME:

Sem	Part	Subject	Hrs	Cr	Int+Ext=Total	Subject code	Focus on Employability/ Entrepreneurship/ Skill Development	Revised/ New/ No Change/ Interchanged. (If revised % of change)
I	Part-I	Tamil/Hindi	6	3	25+75=100			
	Part-II	English	6	3	25+75=100			
	Core I	Invertebrata	6	4	25+75=100		Employability	25% addition
	Core Lab	Invertebrata Practical	2	-			Skill development	20% Addition
	Allied I-1	General Chemistry I	4	4	25+75=100			
	Allied I-1 Lab	Chemistry Practical	2	-				
	SBE-1	Animal Diversity and Adaptation-I	2	2	25+75=100		Entrepreneurship	10% addition
	SBE-2	Applied Zoology-I	2	2	25+75=100		Entrepreneurship	10% addition
	VE	Value Education	2	2	25+75=100			
	Part-I	Tamil/Hindi	6	3	25+75=100			



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II	Part-II	English	6	3	25+75=100			
	Core2	Chordata	4	4	25+75=100		Employability	25 % Addition
	Core Lab	LAB: Invertebrata and Chordata	2	2	40+60=100			20% Addition
	Allied I-2	General Chemistry II	4	4	25+75=100			
	Allied I -2 Lab	Chemistry Practical– Volumetric Analysis	2	2	40+60=100			
	SBE-3	Animal Diversity and Adaptation-II	2	2	25+75=100		Entrepreneurshi	10% addition
	SBE-4	Applied Zoology-II	2	2	25+75=100		Entrepreneurshi	10% addition
	EVS	Environmental Studies	2	2	25+75=100			

Course Name : Master of Science

Discipline : Zoology

CHOICE BASED CREDIT SYSTEM

(For those who join in June 2022 and after)

COURSE SCHEME:

Semester	Part	Subject	Hours	Credit	Int+Ext =Total	Subject Code	Focus on Employability/ Entrepreneurship/ Skill Development	Revised/ New/ No Change/ Interchanged. (If revised % of change)
I	Core 1	Cell and Molecular Biology	6	4	40+60=100		Employability	30%
	Core 2	Biochemistry	6	4	40+60=100		Employability	40%
	Core 3	Techniques in Biology	6	4	40+60=100		Entrepreneurship	20 %
	Elective-1	Aquaculture	6	4	40+60=100		Entrepreneurship	10 %
	Core 4	LAB: Cell and Molecular Biology	3	3	40+60=100		Skill development	20%
	Core 5	LAB : Biochemistry	3	3	40+60=100		Skill development	20%
II	Core 6	Molecular Genetics	6	4	40+60=100		Employability	40%
	Core 7	Ecology	6	4	40+60=100		Employability	30%
	Core 8	Biostatistics and Bioinformatics	6	4	40+60=100		Entrepreneurship	10%
	NME	Economic Zoology	6	4	40+60=100		Entrepreneurship	10%
	Core 9	LAB : Molecular Genetics	3	3	40+60=100		Skill development	10%
	Core 10	LAB : Ecology	3	3	40+60=100		Skill development	10%

Annexure - I

Course Name : Bachelor of Science

Discipline : Zoology (II Year)

CHOICE BASED CREDIT SYSTEM

(For those who join in June 2022 and after)

COURSE SCHEME:

Semester	Part	Subject	Hours	Credit	Int + Ext= Total	Subject code	Courses having focus on employability/ entrepreneurship/ skill development
III	Part – I	Tamil/Hindi	6	3	25+75=100	U3PT3/ U1PH3	
	Part – II	English	6	3	25+75=100	U3PE3	
	Core – 4	Cell Biology	4	4	25+75=100	U3ZYC3	Skill Development
	Core Lab	LAB: Cell Biology and Developmental Biology	2	-			
	Allied I – 3	General Chemistry- III	4	4	25+75=100	U2CHA3Y	
	Allied I– 3 Lab	LAB: Organic Qualitative Analysis	2	-			
	Allied II– 1	Ancillary: Sericulture- I	4	4	25+75=100	U3ZYA3	Employability
	Allied II–1 Lab	Ancillary: Lab: Sericulture- I & II	2	-			
IV	Part – I	Tamil/Hindi	6	3	25+75=100	U2PT4/ U1PH4	
	Part – II	English	6	3	25+75=100	U3PE4	

	- 9	Immunology					
	Allied II - 3	Sericulture III	4	4	25+75=100	U3ZYA51	Employability
	Allied II - 3 Lab	LAB: Sericulture	2	-	-----	---	
	SBE - 5	Employability Skills	2	2	25+75=100	U1PS51	
	NME - 1	Ornamental Fish Culture	2	2	25+75=100	U3ZYN51	Employability
V I	Core - 10	Ecology and Evolution	5	5	25+75=100	U3ZYC61	Skill development
	Core - 11	Biochemistry	5	5	25+75=100	U3ZYC62	Skill development
	Core - 12	Biotechnology	4	4	25+75=100	U3ZYC63	Entrepreneurship
	Core Lab - 10	LAB: Animal Physiology, Genetics and Biostatistics	2	2	40+60=100	U3ZYC6P1	Skill development
	Core Lab - 11	LAB: Ecology, Evolution and Biochemistry	2	2	40+60=100	U3ZYC6P2	Skill development
	Core Lab - 12	LAB: Microbiology, Immunology and Biotechnology	2	3	40+60=100	U3ZYC6P3	Skill development
	Allied II - 4	Sericulture IV	4	4	25+75=100	U2ZYA61	Employability
	Allied II - 4 Lab	LAB: Sericulture III and IV	2	2	40+60=100	U3ZYA6P	Skill development
	SBE - 6	Project	2	2	100+0=100	U1ZY6PR	Employability
	NME - 2	Human Biology	2	2	25+75=100	U3ZYN61	Skill development

Course Name : Master of Science

Discipline : Zoology

SECOND M.Sc Zoology

Semester	Part	Subject	Hours	Credit	Int + Ext =Total	Subject code
III	Core – 11	Immunology	6	4	40+60=100	P19ZYC31
	Core – 12	Developmental Biology	6	4	40+60=100	P19ZYC32
	Core – 13	Evolution	6	4	40+60=100	P19ZYC33
	Elective – 2	Research Methodology	6	5	40+60=100	P19ZYE31
	Core – 14	LAB: Immunology	3	3	40+60=100	P19ZYP31
	Core – 15	LAB: Developmental Biology	3	3	40+60=100	P19ZYP32
IV	Core – 16	Microbiology	6	4	40+60=100	P19ZYC41
	Core – 17	Animal Physiology	6	4	40+60=100	P19ZYC42
	Core – 18	Biotechnology	6	4	40+60=100	P19ZYC43
		Project	6	5	50+50=100	P19ZY4PV
	Core – 19	LAB: Microbiology	3	3	40+60=100	P19ZYP41
	Core – 20	LAB: Animal Physiology	3	3	40+60=100	P19ZYP42



ANNEXURE – III
PANEL OF EXAMINERS

A. UG Zoology

S.No:	Name and Address	Designation	Mobile number	E mail id
1.	Dr.A.Sivagurunathan Department of Zoology MDT Hindu College Tirunelveli	Assistant Professor	9865334402	mdtsiva@gmail.com
2	Dr.R.Radhalakshmi Department of Zoology VVV College Virudhunagar	Assistant Professor	8903793633	radhalakshmi@vvvcollege.org
3.	Dr.B.Ravichandran Department of Zoology SNM College Sathur	Assistant Professor	9944296908	b_rchandran@yahoo.co.in
4	Dr.P.Murali NMSSVN College Nagamalai Madurai	Assistant Professor	9952643430	iniyamurali76@gmail.com
5	Mrs. M.Vanitha Department of Zoology SBK College	Assistant Professor	9487640215	vanithasethupathi@gmail.com

B. PG Zoology

S.No:	Name and Address	Designation	Mobile number	E mail id
1	Dr.S.P.Sevarkodiyone Head Department of Zoology ANJA College Sivakasi	Associate Professor	9865132654	sevarkodiyone@gmail.com



2.	Dr.J.Rani Head Department of Zoology VVV College Virudhunagar	Associate Professor	9487586507	ranivvcvnr@gmail.com
3.	Dr.K.Arunjunairajan Department of Zoology Govt.Arts College Melur	Associate Professor	9047540097	arunjunai@yahoo.com
4	Dr.M.Tamilselvi Department of Zoology VVV College Virudhunagar	Associate Professor	9894883106	tamilselvi@vvvcollege.oorg
5.	Dr.S.Anbalagan Department of Zoology Govt. Arts College Melur	Assistant Professor	9360525978	anbumdu@gmail.com

ANNEXURE - IV

CERTIFICATE COURSE

1. Bee Keeper
2. Sericulture
3. Lac cultivator
4. Aquarium technician
5. Small Poultry farmer
6. Vermicompost producer
7. Dairy farmer
8. Goat farmer




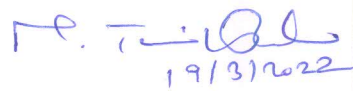
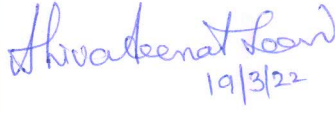


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Members Present:

Name	Category	Signature
1. Dr.K.Nagarajan Head & Associate Professor Department of Zoology VHNSN College(Autonomous) Virudhunagar	Chairman	
2. Dr.M.R.Rajan Professor, Department of Biology Gandhigram Rural Institute Gandhigram Dindugul	University Nominee	ABSENT
3. Dr.M.Tamilselvi Associate Professor Department of Zoology V.V.Vanniaperumal College for Women(Autonomous) Virudhunagar	Subject Expert	 19/3/22
4. Dr.A.Sivagurunathan Assistant Professor Department of Zoology MDT Hindu College Tirunelveli	Subject Expert	 19/3/22
5. Mr.R,Shanmuganathan Managing Director SK Plastics Virudhunagar	Alumnus	ABSENT
6. Dr.R.Singaravel Director Aqua Care Biological Pvt.Ltd. 4/3H, Tiruvalluvar Street Virudhunagar	Corporate Sector	
7. Dr.Prema, P. Assistant Professor Department of Zoology VHNSN College(Autonomous) Virudhunagar	Member	



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8. Dr.N.Alagumanikumar Assistant Professor Department of Zoology VHNSN College(Autonomous) Virudhunagar	Member	ABSENT (ON NCC DUTY)
9. Mr.G.Rameshkumar Assistant Professor Department of Zoology VHNSN College(Autonomous) Virudhunagar	Member	G. Rameshkumar
10. Mrs.P.Viji Assistant Professor Department of Zoology VHNSN College(Autonomous) Virudhunagar	Member	ON MEDICAL LEAVE
11. Dr.D.Kumar Assistant Professor Department of Zoology VHNSN College(Autonomous) Virudhunagar	Member	D. Kumar 19/3/22.
12. Dr.A.Noortheen Assistant Professor Department of Zoology VHNSN College(Autonomous) Virudhunagar	Member	A. Noortheen 19/3/22
13. Dr.M.Kannan Assistant Professor Department of Zoology VHNSN College(Autonomous) Virudhunagar	Member	M. Kannan 19/3/22.
14. Dr.T.Duraianand Assistant Professor Department of Zoology VHNSN College(Autonomous) Virudhunagar	Member	T. Duraianand
15. Dr.N.Nagarajan Assistant Professor Department of Zoology VHNSN College(Autonomous) Virudhunagar	Member	N. Nagarajan





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16. Dr.T.Annalakshmi Assistant Professor Department of Zoology VHNSN College (Autonomous) Virudhunagar	Member	
17. Dr.M.Vigneeswaran Assistant Professor Department of Zoology VHNSN College(Autonomous) Virudhunagar	Member	



**BOARD OF STUDIES MEETING OF B.Sc. ZOOLOGY & M.Sc. ZOOLOGY HELD ON
08.10.2022 MINUTES OF THE MEETING**

The Board of Studies Meeting of II B.Sc. & II M.Sc. Zoology was held today **08-10-2022** at **10.30am**. in the Department of **Zoology** After having a detailed discussion, the Board resolved the following:

- Resolved to revise the syllabus of the courses for **II** year **B.Sc Zoology** as follows:

Semester III

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core 4	Cell biology	Cell biology	√			29	National
Core Lab	Lab: Cell biology & Developmental Biology	Lab: Cell biology & Developmental Zoology			√	2	Local
Allied II - 1	Sericulture I	Sericulture I	√			No change	National
Allied II - 1 Lab	Lab: Sericulture I &II	Lab: Sericulture I & II			√	No change	Local

Semester IV

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core 5	Developmental Biology	Developmental Zoology	√			90	National
Core Lab 6	Lab: Cell biology & Developmental Biology	Lab: Cell biology & Developmental Zoology			√	70	local National
Allied II - 2	Sericulture II	Sericulture II		√		25	National
Allied II - 2 Lab	Lab: Sericulture I & II	Lab: Sericulture I & II			√	15	Local



II BOTANY ALLIED ZOOLOGY

Allied I-1 III Semester	Invertebrata	Invertebrata	√			10	National
	LAB: Invertebrata and Chordata	LAB: Invertebrata and Chordata			√	--	Local
Allied I-2 IV Semester	Chordata	Chordata	√			5	Local
	LAB: Invertebrata and Chordata	LAB: Invertebrata and Chordata			√	5	Local

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to revise the syllabus of the courses for II year **M.Sc. Zoology** as follows:

Semester III

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution Local/ National/ Global Level
			Employability	Entrepreneurship	Skill Development		
Core – 11	Immunology	Immunology	√			31	National
Core – 12	Developmental Biology	Developmental Zoology	√			Title Change	National
Core – 13	Evolution	Evolution	√			35	National
Elective – 2	Research Methodology	Research Methodology			√	15	National
Core – 14	Lab: Immunology	Lab: Immunology			√	10	National
Core – 15	Lab: Developmental Biology	Lab: Developmental Zoology			√	10	National



Semester IV

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution Local/ National/ Global Level
			Employability	Entrepreneurship	Skill Development		
Core – 16	Microbiology	Microbiology		√		20	National
Core – 17	Animal Physiology	Animal Physiology	√			35	National
Core – 18	Biotechnology	Biotechnology	√			25	National
Core – 19	Lab: Microbiology	Lab: Microbiology			√	20	National
Core – 20	Lab: Animal Physiology	Lab: Animal Physiology			√	30	National
	Project	Project			√	No change	National

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure - I

2. 1. Resolved to approve the draft syllabi for **B.Sc Zoology** with the following changes:

III Semester

Course	Unit No.	Changes
Cell biology	I	Added – Sectioning & Staining, Microtome types
	II	Centriole added
	III	Deleted – Cytochemistry Added – Organisation & Synaptonemal complex
	IV	Rearrangement
	V	Entire unit is revised
Lab: Cell biology		Exp.2 is deleted 2 spotters added
Allied I-1 (II Botany Class) Invertebrata	I	Rearrangement
	II	Added – Canal system in Sponges
	III	Ashchelmithes – General characters & Life cycle
II Botany Class LAB: Invertebrata and Chordata	IV	Cockroach – Digestive system added



IV Sememster

Course	Unit No.	Changes
Developmental Zoology	I	Completely revised
	II	Completely revised
	III	Completely revised
	IV	Completely revised
	V	Completely revised
Lab: Cell biology & Developmental Zoology		Last experiment removed
Sericulture II	I	Added – Indigenous & Exotic races of Silkworm , Commercial races of India
	II	Complete change
Lab: Sericulture I & II		Added – Mounting of silkworm mouth parts Reproductive system of male & female silk moth Cocoon characters of Uni, Bi amd Multivoltine races
II. Botany Chordata	V	Deleted – Sensory organ

2.2. Resolved to approve the draft syllabi for **M.Sc Zoology** with the following changes:

Course	Unit No.	Changes
THIRD SEMESTER Immunology	I	Factors that regulate Haematopoesis Innate immunity elaborated
	II	Antign elaborated Cloning selection theory Immune techniques included
	III	Added - TCR genes, T cell co receptors, properties of Cytokines
	IV	Immunosuppressive theory is elaborated, Cancer & Immunnotherapy included
	V	Added – Multivalent subunit
	Immunology Lab.	
Developmental Zoology		Title Change
Developmental Zoology Lab.		Added – Staging of Oestrous cycle in Rat based on permanent slides/charts/photographs
Evolution	I	Added – Neo-Lamarekism, Neo-Darwinism, Modern Synthetic theory Deleted – Molecular Phylogeny, Construction of Phylogenetic tree 16s RNA



	II	No change
	III	Added – Natural Selection - types
	IV	Added – Human Evolution interchange from Unit - V
	V	Complete revision s
Research Methodology	I	2 topics deleted Added – Research designs and its types
	II	Added – Urkund (Plagiarism tool)
	III	Added – ilo index
FOURTH SEMESTER		
Microbiology	III	Added - Probiotics
	V	Added - Microtome
Microbiology Lab.		2 experiments added
Animal Physiology	I	Added – Fat soluble & Water soluble vitamins Deleted – Nutrition requirements, Adequate diet
	II	Added – Juxtaglomerular apparatus Hormonal control of Urine formation Deleted – Physiological adaptation in High Altitudes & Depp sea
	III	Added – Reflex action Deleted – Neuro coordinations
	IV	Added – Principles of Osmosis Molecular change during muscle contraction Length Tension relationship of Skeletal muscle
	V	Added – Endocrine glands & their secretions in Human Role for hormones in Insect development Role of hormones during Parturition
Animal Physiology Lab.		Added- Mounting of Tilapia fish gill Estimation of Ascorbic acid in Lemon fruit Blood smear – Identification of blood cells
Biotechnology	I	Added – Enzyme biotechnology, Gel Electrophoresis, Gene cloning steps, c-DNA
	II	Added – Interferons in desired DNA in vector, Transfection
	III	No change
	IV	The term therapy is removed
	V	No change



Annexure – II

3. Resolved to approve the panel of Examiners suggested **B.Sc Zoology** by the members of the Board

No:	Name & Address of the Examiner	UG/PG	Mobile Number & E mail id
1	Dr. B.Ravichandran Asst.Prof in Zoology SRNM College Satur	UG	9944296908 bravichandran08@gmail.com
2	Dr.P.Kaliraj Asst. Prof. of Zoology, SRNM College, Sathur	UG	9751284707 pkaliraj07@gmail.com
3	Mr.G.Ramasubbu Asst.Prof. in Zoology SBK College Aruppukottai	UG	9176358012 ramasubbu77@gmail.com

Resolved to approve the panel of Examiners suggested **M.Sc Zoology** by the members of the Board

No:	Name & Address of the Examiner	UG/PG	Mobile Number & E mail id
1	Dr.P.Veeramuthumari Asst.Prof. of Zoology VVV College for Womens Virudhunagar	PG	9443829599 veeramuthumari@vvvcollege.org
2	Dr.K.Ramesh kumar Asst. Prof. in Zoology Vivekananda College Thituvedakam West Madurai	PG	9952137980 pnkramesh@gmail.com
3	Dr.D.N.Sudarmani Asst. Prof. in Zoology ANJA College Sivakasi	PG	6374270031 dnpsudarmani@gmail.com

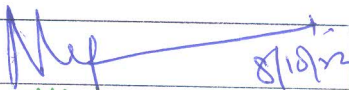

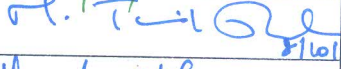
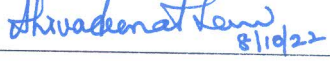
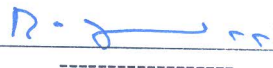




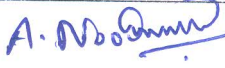




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4. (Any other resolutions passed in the meeting)
- It is resolved that II B.Sc Zoology Syllabus have been thoroughly discussed and finalised
 - It is resolved to change the subject Developmental biology as Developmental Zoology for both in UG & PG Course
 - It is resolved that II M.Sc Zoology Syllabus have been thoroughly discussed and finalised
 - It is resolved to include 3 papers for II M.Sc Elective in the I Semester such as Aquaculture, Sericulture and Wild Life Biology.
 - It is resolved to include 3 papers for II M.Sc Elective in the III Semester such as Research Methodology Medical Lab. Technology and Entomology

Members Present:

Name	Category	Signature
Dr.K.Nagarajan	Chairman	 8/10/22
Dr.M.R.Rajan	University Nominee	 8/10/2022
Dr.M.Tamilselvi	Subject Expert	 8/10/2022
Dr.A.Sivagurunathan	Subject Expert	 8/10/22
Mr.R.Shanmugarajan	Alumnus	
Dr.R.Singaravel	Corporate Sector	-----
Dr.P.Prema Asst.Professor	Member	Medical leave
Dr,N,Alagumanikumar Asst.Professor	Member	
Mr.G.Ramesh kumar Asst.Professor	Member	
Mrs.P.Viji Asst.Professor	Member	
Dr.D.Kumar Asst.Professor	Member	
Dr.A.Noorthen Asst.Professor	Member	
Dr.M.Kannan Asst.Professor	Member	
Dr.T.Duraianand Asst.Professor	Member	



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Dr.N.Nagarajan Asst.Professor	Member	N.N.Nagarajan
Dr.T.Annalakshmi Asst.Professor	Member	T.Annalakshmi
Dr.M.Vigneeswaran Asst.Professor	Member	M.Vigneeswaran



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BOARD OF STUDIES MEETING OF I UG & I PG ZOOLOGY HELD ON 07-06-2023

MINUTES OF THE MEETING

The Board of Studies Meeting of **Zoology** was held today at **10.30 am.** in the Zoology Conference Hall

in the Department of Zoology. After having a detailed discussion, the Board resolved the following:

1. Resolved to revise the syllabus of the courses for I year **B.Sc Zoology** as follows:

Semester I

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution Local/ National/ Global Level
			Employability	Entrepreneurship	Skill Development		
Core	Invertebrata	Invertebrata	*			25	National
Core	Lab.Invertebrata	Lab. In Invertebrata			*	20	National
Allied	General Chemistry -I	Sericulture - I	*			25	National
Allied	Lab..Chemistry Practical.	Lab. In Sericulture - I			*	25	National
SBC	Animal Diversity and Adaptation	SEC – I Ornamental Fish Farming and Management			*	New paper	National
SBC	Applied Zoology -I	AECC I – Communication skills for Employment -I	*			New paper	National
SLC	Value Education	Foundation Course		*		New paper	National

Semester II

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution Local/ National/ Global Level
			Employability	Entrepreneurship	Skill Development		
Core	Chordata	Chordata	*			25	National



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Core	LAB.Invertebrata and Chordata	Lab.in Invertebrata and Chordata			*	25	National
Allied	General Chemistry - II	Sericulture - II			*	25	National
Allied	LAB.Volumetric Analysis	Lab.In Sericulture I & II			*	25	National
SBE	Animal Diversity and Adaptation - II	SEC – II Aquarium keeping			*	New paper	National
SBE	AppliedZoology-II	SEC – III Wild Life Conservation and Mammagement	*			New paper	National
SLC	Environmental Studies	AECC II – Communication skills for Employment -I	*			New paper	National

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to approve the draft syllabi for **I. B.Sc Zoology** with the following changes:

Course	Unit No.	Changes
Sericulture - I	All units changed	New paper
Sericulture - II	All units changed	New paper
SEC – I Ornamental Fish Farming and Management	III	Fish diseases types are specified
SEC – II Aquarium Keeping	IV	Fish diseases types are specified



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1. Resolved to revise the syllabus of the courses for I year **M.Sc Zoology** as follows:

Semester I

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core	Cell and Molecular Biology	Core-I Structure and function of Invertebrates	*			New paper	National
Core	Biochemistry	Core – II Comparative anatomy of Vertebrates	*			New paper	National
Core	Techniques in Biology	Core - III Lab Course in Invertebrates & Vertebrates			*	New paper	National
Elective	Aquaculture	Elective - I Biostatistics	*			New paper	National
Core	LAB:Cell and Molecular Biology	Elective -II Aquaculture		*		New paper	National
Core	LAB: Biochemistry	PCC Intellectual Property Rights	*			New paper	National
		AECC - I Sericulture		*		New paper	National

Semester II

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core	Molecular	Core-IV				New paper	National



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	Genetics	Cellular and Molecular Biology	*				
Core	Ecology	Core – V Developmental Biology	*			New paper	National
Core	Biostatistics and Bioinformation	Core - VI Lab Course in Cell Biology and Developmental Biology			*	New paper	National
Core	Economic Zoology	Elective-III Molecules and their interaction relevant to biology	*			New paper	National
NME	Economic Zoology	Elective-IV Stem cell biology	*			New paper	National
Core	LAB: Molecular Genetics	SEC -I Poultry farming		*		New paper	National
Core	LAB:Ecology	AECC – II Apiculture		*		New paper	National
		Internship*/ Industrial Activity		*		New paper	National

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.



2. Resolved to approve the draft syllabi for **I. M.Sc Zoology** with the following changes:

Course	Unit No.	Changes
Core – II Comparative anatomy of Vertebrates	Practical lab	Addition of experiment Chick – Brain added
Core - VI Lab Course in Cell Biology and Developmental Biology	Practical lab	Addition of experiment – Bull sperm mounting

1. Resolved to revise the syllabus of the courses for I year **B.Sc Allied Zoology** as follows:

Semester I

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Part - III	New paper	Allied Zoology I	*			New paper	National
Part - III	New paper	Lab in Allied Zoology I			*	New paper	National

Semester – II

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Part-III	New paper	Allied Zoology-II	*			New paper	National
Part-III	New paper	Lab in Allied Zoology II			*	New paper	National



3. (Resolutions passed in the meeting)

- a. It is resolved to adopt and follow the syllabus prescribed by the TANSICHE
- b. It is resolved to include minor changes in certain theory and practical lab papers.

Members Present:

Name	Category	Signature
Dr.K.Nagarajan	Chairman	
Dr.M.R.Rajan	University Nominee	
Dr..M.Tamilselvi	Subject Expert	ABSENT
Dr.A.Sivagurunathan	Subject Expert	ABSENT
Dr.R.Shanmugarajan	Alumnus	
Dr.R.Singaravel	Corporate Sector	ABSENT
Dr.P.Prema	Member	
Dr.N.Alagumanikumar	Member	
Dr.G.Rameshkumar	Member	
Mrs.P.Viji	Member	
Dr.D.Kumar	Member	
Dr.A.Noortheen	Member	
Dr.M.Kannan	Member	
Dr.T.Duraianand	Member	
Dr.N.Nagarajan	Member	
Dr.T.Annalakshmi	Member	
Dr.M.Vigneeswaran	Member	



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**BOARD OF STUDIES MEETING OF NAME OF THE PROGRAMME HELD ON 30.10.2023
MINUTES OF THE MEETING**

The Board of Studies Meeting of **I B.Sc. Zoology & I M.Sc. Zoology** was held today (30-10-2023) at **10.30 AM**. in the UG Laboratory, Department of Zoology. After having a detailed discussion, the Board resolved the following:

1. Resolved to revise the syllabus of the courses for I year II Semester **B.Sc. Zoology** as follows:

Semester II

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core -2	Chordata	Chordata	*			New	National
SBE-2	Animal Diversity and Adaptations	Animal Diversity and Adaptations			*	New	National
NME	Human Biology	Human Biology				New	National
Allied-I	Sericulture - II	Sericulture - II			*	50%	Local
Allied – I Lab	LAB: Sericulture I & II	LAB: Sericulture I & II				90%	
Core -3	Lab.in Invertebrata and Chordata	Lab.in Invertebrata and Chordata			*	50%	National

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to approve the draft syllabi for **I B.Sc. Zoology** with the following changes:

Course	Unit No.	Changes
Chordata	All Units	From TANSICHE all the units have changed
Sericulture	III, IV & V	Changed from TANSICHE to our Autonomous
Animal Diversity & Adaptations	New	TANSICHE---→ Autonomous



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Human Biology	New	TANSCHÉ---→ Autonomous
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1. Resolved to revise the syllabus of the courses for I year II Semester **M.Sc. Zoology** as follows:

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core -4	Cell and Molecular Biology	Cell and Molecular Biology	*			No change	National
Core -5	Biochemistry	Biochemistry			*	TANSCHÉ To Autonomous	National
Core -6	Techniques in Biology	Techniques in Biology			*	TANSCHÉ To Autonomous	National
NME	Economic Zoology	Economic Zoology			*	TANSCHÉ To Autonomous	Local
Core - 7	Lab. In Cell and Molecular Biology	Lab. In Cell and Molecular Biology			*	TANSCHÉ To Autonomous	National
Core -8	Lab. In Biochemistry	Lab. In Biochemistry			*	TANSCHÉ To Autonomous	National

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to approve the draft syllabi for **I M.Sc. Zoology** with the following changes:



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Course	Unit No.	Changes
Changed from TANSICHE To Autonomous	Cell & Molecular Biology	New paper
All Papers Changed from TANSICHE To Autonomous	Biochemistry Techniques in Biology Economic Zoology	New paper New paper New Paper
All Papers Changed from TANSICHE To Autonomous	Lab in Cell & Molecular Biology Lab. In Biochemistry	New paper New paper

1. Resolved to revise the syllabus of the courses for I year II Semester **B.Sc Allied Zoology for Botany** as follows:

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Allied -2	Chordata	Chordata	*			100% New Paper changed from TANSICHE to Autonomous	National
Allied -2	Lab. In Chordata	Lab. In Chordata			*	100% New Paper changed from TANSICHE to Autonomous	National

2. Resolved to approve the draft syllabi for I B.Sc Allied Zoology for Botany_ with the following changes:

Course	Unit No.	Changes
All Papers Changed from TANSICHE To Autonomous	Chordata	New paper
All Papers Changed from TANSICHE To Autonomous	Lab. In Chordata	New paper

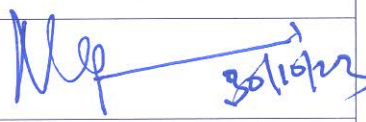
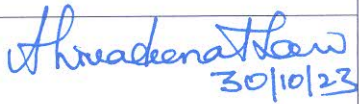
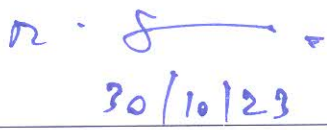


3. a. It is resolved to approve the I B.Sc Zoology II semester papers and Syllabus

b. It is resolved to approve the I B.Sc Zoology Anc.(I Botany)II semester papers and Syllabus

c. It is resolved to approve the I M.Sc Zoology II semester papers and Syllabus

Detailed syllabus was given in the Annexure - I

Members Present:

Name	Category	Signature
Dr.K.Nagarajan Head & Associt Prof. of Zoology VHNSN College	Chairman	 30/10/23
Dr.M.R.Rajan Professor Dept. of Biology GRI Gandhigra, Dindigul	University Nominee	Not Present
Dr.M.Tamilselvi Assoct. Prof of Zoology VVV WOMens College Virudunagar	Subject Expert	Not Present.
Dr.A.Sivagurunathan Asst.Professor of Zoology MDT Hindu College Tirunelveli	Subject Expert	 30/10/23
Mr.R.Shanmugarajan Managing Dirctor SK Plastics Virudhunagar	Alumnus	 30/10/23
Dr.R.Singaravel Director Aquacare Biol.Pvt.Ltd. Chennai	Corporate Sector	Not Present.
Dr.P.Prema Associate Professor Dept. of Zoology VHNSN College(Autonomous) Virudhunagar	Member	 30/10/2023
Dr.N.Alagumanikumar Associate Professor Dept. of Zoology	Member	 30/10/2023

Dr.G.Ramesh Kumar Asst.Professor Dept. of Zoology VHNSN College(Autonomous) Virudhunagar	Member	G. Ramesh Kumar 30/10/23
Mrs.P.Viji Asst.Professor Dept. of Zoology VHNSN College(Autonomous) Virudhunagar	Member	P. Viji 30/10/23
Dr.D.Kumar Asst.Professor Dept. of Zoology VHNSN College(Autonomous) Virudhunagar	Member	D. Kumar 30/10/23
Dr.A.Noorthen Asst.Professor Dept. of Zoology VHNSN College(Autonomous) Virudhunagar	Member	A. Noorthen 30/10/23
Dr.M.Kannan Asst.Professor Dept. of Zoology VHNSN College(Autonomous) Virudhunagar	Member	M. Kannan 30/10/23
Dr.T.Duraiand Asst.Professor Dept. of Zoology VHNSN College(Autonomous) Virudhunagar	Member	T. D. Duraiand 30.10.23
Dr.N.Nagarajan Asst.Professor Dept. of Zoology VHNSN College(Autonomous) Virudhunagar	Member	N. Nagarajan
Dr.T.Annalakshmi Asst.Professor Dept. of Zoology VHNSN College(Autonomous) Virudhunagar	Member	T. Annalakshmi
Dr.M.Vigneeswaran Asst.Professor Dept. of Zoology	Member	M. Vigneeswaran

[Handwritten Signature] 30/10/23

Dr. K. NAGARAJAN,
M.Sc, M.Phil, B.Ed, PGDCA, Ph. D.,
Head and Associate Professor,
Department of Zoology,
VHNSN College (Autonomous),
VIRUDHUNAGAR - 626 001.

Dr. K. NAGARAJAN,
M.Sc, M.Phil, B.Ed, PGDCA, Ph. D.,
Head and Associate Professor,
Department of Zoology,
VHNSN College (Autonomous),
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