

Minutes of the Board of studies meeting

The XIIIth meeting of board of studies in zoology under Autonomous scheme conducted on 10.03.2018 at 10.30 Am in the Department of zoology

I chairman:

Dr. R. Jeyaraj. HOD

II Faculty members

- | | | |
|--------------------------|-------------------|----------|
| 1. Dr. K. Logan Kumar | K. Logan Kumar | 10/3/18 |
| 2. Dr. S. Logaswamy | S. Logaswamy | 10/3/18 |
| 3. Dr. M. Manimegathi | M. Manimegathi | 10/3/18 |
| 4. Dr. M. Lekshmanaswamy | M. Lekshmanaswamy | 10/3/18 |
| 5. Dr. S. Binu Kumari | S. Binu Kumari | 10/3/18 |
| 6. Dr. P. Kathireswari | P. Kathireswari | 10/3/18 |
| 7. Dr. S. Raja | S. Raja | 10/3/18 |
| 8. Dr. D. Rajmohan | ABSENT | |
| 9. Dr. P. Nithya Jenifer | Nithya Jenifer | 10.3.18. |
| 10. Dr. R. Kalavathi | R. Kalavathi | 10/3/18 |
| 11. Dr. K. Vijayakumar | K. Vijayakumar | 10/3/18 |
| 12. Dr. F. Jerald felix | F. Jerald felix | 10/3/18. |

III Academic council members

- | | |
|----------------------------------|--------|
| 1. Dr. D. Chitra | ABSENT |
| Associate professor | |
| PG and Research Dept. of zoology | |
| C.N. college, Stode-4. | |
| 2. Dr. Sanil, | ABSENT |
| Associate prof. in zoology, | |
| Govt. Arts college, eoty. | |

IV Member nominated by vice chancellor

Dr. M. Ramesh,
Professor & Head,
Dept. of Zoology
Dharwad University
Coimbatore-46

[Signature]
10.02.18

P. G. Meritorious Alumni

Dr. K. Sujatha
Associate Professor
Dept. of Zoology
Govt. Arts college,
Coimbatore-11.

K. Sujatha
10.02.18

VI Representative for Placement

Mr. S. Subramaniam
1/212 - Rasakapalayam
Alampalayam Road
Pollachi - 2.

ABSENT.

PG Students Representative-I

G. MONIKA Theresa Leo
IInd M.Sc Zoology,
Kongunadu Arts & science college,
Coimbatore-29.

[Signature]
10/3/18

UG Students Representative-II

NIVETHITHA
III-B.Sc Zoology,
Kongunadu Arts & science college
Coimbatore-29.

[Signature]
10/3/18

Minutes of the Board of Studies Meeting:

The chairman welcomed the members of the Board for XIIIth Board of Studies in Zoology.

The chairman briefed the activities to be taken up by the board for the implementation of syllabi of the academic year 2018-19. The chairman requested the members to discuss about the curriculum.

Item No: 1.

Two separate panels of question papers set for B.Sc and M.Sc Zoology were prepared and forwarded to the principal.

Item No: 2.

Two separate panel of examiners for theory, practical and project viva voce for UG and PG zoology were prepared and forwarded to the Principal.

Item No: 3.

The Board approved to introduce outcome based education system for the UG and PG zoology from the academic year 2018-19 onwards.

Item No: 4.

The following papers have been taken to consider and approve the syllabus restructured for B.Sc zoology students admitted during the academic year 2018-19 onwards.

1. core paper-1. Non-Chordata
course code-18020101.

Unit: I phylum Protozoa:
parasitic Protozoa, plasmodium and Leishmania.

Unit: III phylum Annelida
- economic importance of earthworms
- mode of life in polychaetes,
- life history of Nereis and earthworms.

Unit: IV phylum Arthropoda.

- metamorphosis in insects
- modifications of mouthparts in insects; social behaviour of Apis and Termites.

Included in the respective units

2. core paper-2: chordata - course code
18020202.

Unit-II. Origin of Tetrapode, paedomorphosis.

Unit-III - Status of Sphenodon
Included in the respective units

3. core paper: 3. cell biology - course
code 18020303

Instead of physiology - cell biology introduced.

cell cycle - included in the unit - 4.

4. core paper: 4: Physiology course
code 18020404.

Instead of cell biology introduced
Physiology.

5. core paper: 5. Genetics. course
code 18020505.

unit: III. Modern concept of
gene, split gene and
mutagenesis.
included.

6. core paper: 6. Evolution. course
code 18020506.

Instead of Biotechnology-I
introduced a new paper evolution.

7. core paper: 7. Ecology. course
code-18020507.

Unit-I Radiation, Symbiosis
and parasitism

Unit-III Oxygen, CO₂ and Sulphur
included in the Respective units

8. core paper: 10. Biotechnology
course code 18020610.

Unit-I Vectors - included

Unit-II Mushroom cultivation

Unit-III Methods of Production
of VAM inoculum for application
Biopesticides. Types of
Antagonistics used as
biopesticides - Deleted.

9. core paper: 11. Developmental biology
course code - 18020611.

Unit-I. Types of egg, Polarity, Symmetry ^{deleted in unit}

Unit-IV. Hormonal control, Gradient theory and theory of organisation

Unit-V: In vitro fertilization, Artificial insemination and embryo transfer
Included in the respective unit

Unit-II. Sexual cycle & Hormonal control, In vitro fertilization, Artificial insemination & embryo transfer - Deleted in Unit-II

10. Core paper-12. Animal Diversity -
course code-18UZO612.

In the existing paper I unit of Animal behaviour syllabus included.

11. Allied A. paper-I Non chordata and
Chordata - course code-18UZO1A1.

Unit-I: - canal system of sponges
- coral reef.

Unit-II: - parasitic and protozoan diseases.

Unit-III: Metamerism in Annelids.
- Larval forms of Echinodermata

Unit-IV - parental care of fishes and Amphibians.

Unit-V - migration of Birds. Dentition in Rabbits.

Included in the respective units.

12. Major Elective paper-I (Semester-V)
Paper: Wild life conservation and
Management course code-18UZO5

ME: Paper-II Poultry science and
Semester-VI

management - course code. 18020682

These two papers chosen for the academic year 2018-19 onwards.

13. Non-Major elective - consumer awareness - course code -
introduced as a new subject from the academic year 2018-19 onwards.

14. Skill based subject: commercial fish culture - course code 18020654.

Unit-I fishery resources of India major reservoir, lakes and their fisheries, fisheries status. Exploitation and prospecting. marine, brackish water, fresh water and cold water fisheries of India.

Unit-II study of food and feeding habits of commercially important fishes. Reproductive biology, maturity stages, Gonadosomatic index, Ponderal index, fecundity, Sex ratio and spawning. Eggs and larval stages and developmental biology of fin fishes and shell fishes.

Unit-III - commercially important of fishes, breeding and seed production techniques. Traditional, semi-intensive, intensive and super intensive culture systems.

Unit-IV: water culture, water quality parameters, parameters for

fish culture, temperature, turbidity, pH, EC , and salinity. Dissolved O_2 , CO_2 , Total alkalinity, Total Hardness, Ammonium and Nitrate. Soil preparation and quality management for fish culture, Nutritional requirements of diff. fishes, Feed evaluation, FCR , FER methods.

Unit-V - Govt. schemes and subsidies for promotion of entrepreneurship, contract farming and joint venture, Public Private Partnership, fish processing and export. Included in respective units.

Unit-I - scope of fish culture, Fresh water resources

Unit-II - Fishery resources of India

Unit-III - Site selection, design and construction of Artificial ponds

Unit-IV - feeding habits, weed control

Unit-V - weed control, harvesting of fishes and economics.

Deleted in respective units

Item No: 5 The following papers have been taken to consider and approve the syllabus restructured for M.Sc Zoology students admitted during the academic year 2018-19 onwards.

core paper: 1. Animal Physiology
course code - 18PZ0101.

unit. 1 Role of enzymes in digestion
 unit. II. Respiratory quotient and
 factors affecting RQ
 included in the respective unit
 unit: I : Energy metabolism and
 introduction - Deleted.

core paper: 4. Aquaculture course
code 18PZ0104.

unit: 4 cladocera deleted
 Rotifers, copepods
 included.

core paper: 5: Biostatistics, Bio
physics and Bioinformatics
course code: 18PZ0205.

unit: IV Deleted.

units: I & II converted to units I & II
 unit - III Probability added.

core paper: 6. Molecular genetics-course
code 18PZ0206.

unit: 3. mutagenesis, mutation types
causes and detection, loss
of function, Gain of
function, Germinal and
somatic mutants, Insertional
mutagenesis.

unit- 4: Mapping by using somatic
cell hybrids.

Included in Resp. unit

Colc practical - I - course code 18PZ02

TLC included

ECG Deleted.

Non-major elective paper - Nanobiotech
- nology - course code - 18PZ0302

Unit-I - Types of nanoparticles.

Unit-II - EDAX

Unit-III - Impacts of nano materials

Unit-IV - Drug delivery

Unit-V - Toxicity based on stability of entry

one certificate course in Apiculture
and one diploma course - ornament
fish Production and Trade introduced
in the academic year 2018-19
onwards.

The board authorities, the chairman to present the above item in the ensuing standing committee on academic affairs meeting and academic council meeting for the approval and implementation as said above.

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PRINCIPAL
 KONGUNADU ARTS & SCIENCE COLLEGE
 COIMBATORE-641 029.



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 10/3/18

HOD OF ZOOLOGY
 KONGUNADU ARTS & SCIENCE COLLEGE
 COIMBATORE-641 029