

Anekant Education Society's

Tuljaram Chaturchand College of Arts, Science, Commerce, Baramati

(Autonomous)

DEPARTMENT OF ZOOLOGY

(Faculty of Science and Technology)

Minutes of Board of Studies Meeting No.06

Date of Meeting: 04/04/2022

Venue: Department of Zoology

April, 2022

Anekant Education Society's

Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati (Autonomous)

Department of Zoology

AGENDA OF THE MEETING

The agenda of the meeting included the following subjects:

- To confirm the minutes of previous Bos meeting held on 04th December 2021.
- To design and approve course and credit structure for the B.Sc. and M. Sc. program in accordance with 2022 pattern.
- To prepare and approve curriculum of F.Y.B.Sc. (Zoology) Semester-I (2022 pattern) to be implemented from the academic year 2022-2023.
- To prepare and approve curriculum of M.Sc.-I (Zoology) Semester-I (2022 pattern) to be implemented from the academic year 2022-2023.
- To prepare and approve curriculum of certificate courses.
- To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.
- Any other issue with the permission of the chair.

Head,

Anekant Education Society's Tuljaram Chaturchand College, Baramati

(Autonomous)

Department of ZoologyList of Members Presented for the BOS Meeting

The following internal and external BoS members were attended the Board of Studies (Zoology) meeting through offline mode held on 04th April, 2022.

| Sr. No. | Name of Member | Designation |
|---------|---------------------------------------------------------------------------------------------------|-----------------------------------|
| 1. | Mr. Sandip P. Chordiya Assistant Professor, Department of Zoology, T. C. College, Baramati | Chairman |
| 2. | Dr. Vitthal B. Nale Assistant Professor, Department of Zoology, T. C. College, Baramati | Internal Member |
| 3. | Dr. Deepali M. Sangale Assistant Professor, Department of Zoology, T. C. College, Baramati | Internal Member |
| 4. | Dr. Yogesh B. Gaikwad Assistant Professor, Department of Zoology, T. C. College, Baramati | Internal Member |
| 5. | Dr. S. N. Pokale Professor in Zoology, New Arts, Science & Commerce, College, Ahmednagar. | Member, V. C. Nominee |
| 6. | Dr. G. D. Khedkar Professor in Zoology, Dr. B.A.M. University, Aurangabad. | External Member, Other University |
| 7. | Dr. Yogesh A. Karpe Scientist B, Agharkar Research Institute, Pune | External Member |
| 15. | Ms. Tamanna Siraj Tamboli | PG Student |
| 16. | Ms. Tanishka Satish Gaikwad | UG Student |

AGENDA OF THE MEETING

The agenda of the meeting included the following subjects:

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- 5. To prepare and approve curriculum of certificate courses.
- 6. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.
- 7. Any other issue with the permission of the chair.

MINUTES OF THE MEETING

As per the Notice no. 403, dated 31/03/2022, issued by the college, the meeting of Board of Studies in Zoology was successfully held on 04th April, 2022 at 11:00 am in the Department of Zoology, T. C. College, Baramati. The meeting took place in offline mode, adhering to the guidelines and protocols set by the college under the guidance of Mr. **Sandip P. Chordiya,** Chairman of the Board of Studies in Zoology. The meeting commenced with a warm welcome to all the esteemed members, followed by a brief introduction of the meeting's objectives

During the meeting, fruitful discussions were held on the items mentioned in the circulated agenda. We are pleased to inform you that the following resolutions were made during the BoS meeting.

- 01) To confirm the minutes of previous BoS meeting held on 04th December 2021.
 - **Resolution # 02:** Minutes of the previous meeting were read aloud by Mr. Sandip Chordiya and were confirmed unanimously.
- 02) To design and approve course and credit structure for the B.Sc. and M. Sc. program in accordance with 2022 pattern.

Resolution # 02: The meeting commenced with a detailed discussion on designing and approving the course and credit structure for the B.Sc. and M.Sc. programs in accordance with the 2022 pattern.

The credit structure of the same were unanimously finalized as given below-

| Class | Pattern | Semester | Course Code | Course Title | Course Type | No. of Credits |
|-------------|---------|----------|-----------------------|---------------------------------------|-----------------------------------------|-------------------|
| | | | First | Year | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 310 3103 |
| F.Y.B.Sc | 2022 | I | USZL 111 | Animal Systematics and Diversity -I | Theory | 02 |
| F.Y.B.Sc | 2022 | I | USZL 112 | Fundamentals of Cell Biology | Theory | 02 |
| F.Y.B.Sc | 2022 | I | USZL 113 | Zoology Practical-I | Practical | 02 |
| F.Y.B.Sc | 2022 | II | USZL 121 | Animal Systematics and Diversity -II | Theory | 02 |
| F.Y.B.Sc | 2022 | II | USZL 122 | Genetics | Theory | 02 |
| F.Y.B.Sc | 2022 | II | USZL 123 | Zoology Practical-II | Practical | 02 |
| | | | Certificate Course | | | 02 |
| Second Year | | | | | | |
| S.Y.B.Sc | 2022 | III | USZL 231 | Animal Systematics and Diversity -III | Theory | 03 |

| S.Y.B.Sc | 2022 | III | USZL 232 | Amplied Zeeleev I | Thoony | 03 | | |
|------------|------------|-----|-----------------------|--------------------------------------------------------------|--------------------|----|--|--|
| S.Y.B.Sc | 2022 | III | USZL 232 USZL 233 | Applied Zoology-I Zoology Practical-III | Theory Practical | 03 | | |
| S. 1 .B.SC | 2022 | 111 | Certificate | Zoology Practical-III | Practical | 02 | | |
| | | | Course | | | | | |
| S.Y.B.Sc | 2022 | IV | USZL 241 | Animal Systematics and Diversity -IV | Theory | 03 | | |
| S.Y.B.Sc | 2022 | IV | USZL 242 | Applied Zoology-II | Theory | 03 | | |
| S.Y.B.Sc | 2022 | IV | USZL 243 | Zoology Practical-IV | Practical | 02 | | |
| | | | Certificate | | | 02 | | |
| | Course | | | | | | | |
| | Third year | | | | | | | |
| T.Y.B.Sc | 2022 | V | USZL 351 | Animal Systematics and Diversity -V | Theory | 03 | | |
| T.Y.B.Sc | 2022 | V | USZL 352 | Mammalian Histology | Theory | 03 | | |
| T.Y.B.Sc | 2022 | V | USZL 353 | Biochemistry | Theory | 03 | | |
| T.Y.B.Sc | 2022 | V | USZL 354 | Environmental Biology & Toxicology | Theory | 03 | | |
| T.Y.B.Sc | 2022 | V | USZL 355 | Parasitology | Theory | 03 | | |
| T.Y.B.Sc | 2022 | V | USZL 356 | A] Cell Biology Or B] General Pathology | Theory | 03 | | |
| T.Y.B.Sc | 2022 | V | USZL 357 | Zoology Practical-V | Practical | 02 | | |
| T.Y.B.Sc | 2022 | V | USZL 358 | Zoology Practical-VI | Practical | 02 | | |
| T.Y.B.Sc | 2022 | V | USZL 359 | Zoology Practical-VII | Practical | 02 | | |
| | | | Certificate Course | | | 02 | | |
| T.Y.B.Sc | 2022 | VI | USZL 361 | Biological Techniques | Theory | 03 | | |
| T.Y.B.Sc | 2022 | VI | USZL 362 | Mammalian Physiology & Endocrinology | Theory | 03 | | |
| T.Y.B.Sc | 2022 | VI | USZL 363 | Genetics & Molecular Biology | Theory | 03 | | |
| T.Y.B.Sc | 2022 | VI | USZL 364 | Organic Evolution | Theory | 03 | | |
| T.Y.B.Sc | 2022 | VI | USZL 365 | General Embryology | Theory | 03 | | |
| T.Y.B.Sc | 2022 | VI | USZL 366 | A] Medical Entomology OR B] Public Health & Hygiene | Elective Theory | 03 | | |
| T.Y.B.Sc | 2022 | VI | USZL 367 | Zoology Practical-VIII | Practical | 02 | | |
| T.Y.B.Sc | 2022 | VI | USZL 368 | Zoology Practical-IX | Practical | 02 | | |
| T.Y.B.Sc | 2022 | VI | USZL 369 | Minor Research Project | Project | 02 | | |
| | | | M.S | Sc. I | | | | |
| M. Sc. | 2022 | Ι | PSZO 111 | Biochemistry & Bioenergetics | Theory | 04 | | |
| M. Sc. | 2022 | I | PSZO 112 | Cell Biology | Theory | 04 | | |
| M. Sc. | 2022 | I | PSZO 113 | Fresh Water Zoology & Ichthyology | Theory | 04 | | |
| M. Sc. | 2022 | I | PSZO 114 | Biostatistics & Genetics | Theory | 04 | | |
| M. Sc. | 2022 | Ι | PSZO 115 | Zoology Practical - I Practicals Corresponding to PSZO | Practical | 04 | | |

| | | | | 111 and PSZO 112 | | |
|--------|------|-----|-----------------------|-------------------------------------------------------------------------------------------|-----------|----|
| | | | | Zoology Practical - II | | |
| M. Sc. | 2022 | I | PSZO 116 | Practicals Corresponding to PSZO 113 & PSZO 114 | Practical | 04 |
| M. Sc. | 2022 | II | PSZO 121 | Molecular Biology | Theory | 04 |
| M. Sc. | 2022 | II | PSZO 122 | Developmental Biology | Theory | 04 |
| M. Sc. | 2022 | II | PSZO 123 | Comparative Animal Physiology and Endocrinology | Theory | 04 |
| M. Sc. | 2022 | II | PSZO 124 | Tools and Techniques in Biology | Theory | 04 |
| M. Sc. | 2022 | II | PSZO 125 | Zoology Practical - III Practicals Corresponding to PSZO 121 and PSZO 122 | Practical | 04 |
| M. Sc. | 2022 | II | PSZO 126 | Zoology Practical - IV Practicals Corresponding to PSZO 123 and PSZO 124 | Practical | 04 |
| | | | M.S | c. II | | |
| M. Sc. | 2022 | III | PSZO 231 A / B / C | A) Entomology- I / B) Animal Physiology- I / C) Genetics- I | Theory | 04 |
| M. Sc. | 2022 | III | PSZO 232 | Physiology, Biochemistry and Ecology of Insects | Theory | 04 |
| M. Sc. | 2022 | III | PSZO 233 | Reproductive Physiology, Histology and Histochemistry of Mammals | Theory | 04 |
| M. Sc. | 2022 | III | PSZO 234 | Economic Zoology | Theory | 04 |
| M. Sc. | 2022 | III | PSZO 235 A / B / C | Zoology Practical - V Practicals Corresponding to PSZO 231 A / B / C, & PSZO 232 | Practical | 04 |
| M. Sc. | 2022 | III | PSZO 236 | Zoology Practical - VI Practicals Corresponding to PSZO 233, PSZO 234 | Practical | 04 |
| | | | SD 31 | Skill Development | | 02 |
| | 1 | | | | | |
| M. Sc. | 2022 | IV | PSZO 241 A / B / C | A) Entomology- II B) Animal Physiology-II C) Genetics- II | Theory | 04 |
| M. Sc. | 2022 | IV | PSZO 242 | Immunology and Parasitology | Theory | 04 |

| M. Sc. | 2022 | IV | PSZO 243 | Pest Control and Toxicology | Theory | 04 |
|--------|------|----|-----------------------|---------------------------------------------------------------------------------------------|-----------|----|
| M. Sc. | 2022 | IV | PSZO 244 | Environmental Biology and Animal Systematics & Diversity | Theory | 04 |
| M. Sc. | 2022 | IV | PSZO 245 A / B / C | Zoology Practical – VII Practicals Corresponding to: PSZO 241 A / B / C, PSZO 242, PSZO 244 | Practical | 04 |
| M. Sc. | 2022 | IV | PSZO 246 | Research Project | Project | 04 |
| | | | SD 41 | Skill Development | | 02 |

03) To prepare and approve curriculum of F.Y.B.Sc. (Zoology) Semester-I (2022 pattern) to be implemented from the academic year 2022-2023.

Resolution # 02: The committee discussed and reviewed the proposed curriculum for F.Y.B.Sc. Semester-I as per the 2022 pattern.

| Class | Pattern | Semester | Course Code | Course Title | Course Type | No. of Credits |
|----------|---------|----------|----------------|-------------------------------------|----------------|-------------------|
| F.Y.B.Sc | 2022 | I | USZL 111 | Animal Systematics and Diversity -I | Theory | 02 |
| F.Y.B.Sc | 2022 | I | USZL 112 | Fundamentals of Cell Biology | Theory | 02 |
| F.Y.B.Sc | 2022 | I | USZL 113 | Zoology Practical-I | Practical | 02 |

Following is summary of deliberations on the syllabus that was unanimously accepted.

Paper: USZL111 Animal Systematics & Diversity-I

| Unit | Subunit No | Proposed Syllabus Details | Suggestions |
|------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| | 1.1 | Introduction | Introduction to invertebrates by Dr. G.D.Khedkar |
| 1 Principles | 1.2 | Importance of Classification. | Importance of animal classification, Dr. G.D.Khedkar |
| 1. Principles of animal classification (06 Lectures) | 1.3 (1.4) | Taxonomy-Basic terminology and Introduction : Alpha, Beta and Gamma levels of taxonomy, Micro-taxonomy | Taxonomy-Basic terminology and Introduction to Alpha, Beta and Gamma levels of taxonomy, Micro- taxonomy Dr. G. D. Khedkar |
| | 1.4 | Approaches to various | Approaches to various |
| | (1.5) | taxonomic methods | taxonomic methods |

| | | (Biochemical, molecular) taxonomy, molecular taxonomy, barcoding | (Biochemical, molecular) Remove barcoding Dr. S.K. Pokale |
|------------------------------|--------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------|
| | 1.5 (1.3) | Systematics-Linnaean hierarchy (Phylum, Class, Order, Family, Genus and Species) | Include in 1.3 & name1.3 as 1.4 |
| | 1.6 | Binomial nomenclature | Remove Dr. G.D.Khedkar |
| | 1.7 (1.1) | Three Domain & Six kingdom classification system | Keep it in introduction (1.1) |
| 2. Classification | 2.1 | Protozoa | Keep only classification with silent features |
| with salient features of the | 2.2 | Porifera | Specify example of each class |
| following | 2.3 | Coelenterata (Cnidaria) | Add class 'level' |
| phyla (Up to | 2.4 | Platyhelminthes | |
| class level with | 2.5 | Aschelminthes | |
| minimum one example) (6L) | 2.6 | Annelida | |
| 3. General | 3.1 | Protozoa: Harmful protozoans (Any two) | Use 'pathogenic' protozoans instead of 'harmful' |
| topics (06 | 3.2 | Porifera: : Spicules, its types | Skeleton of Porifera |
| Lectures) | 3.3 | Cnidaria: Coral reefs & Its importance | |
| | 4.1 | Systematic position, Habits and habitat | Type study: <i>Pheretima</i> posthuma |
| | 4.2 | Morphology & Hydrostatic skeleton | |
| 4 Ct 1 C | 4.3 | Digestive system | |
| 4. Study of Earthworm | 4.4 | Circulatory system in brief. | Remove in brief |
| (12L) | 4.5 | Excretory system. | |
| | 4.6 | Reproductive system | |
| | 4.7 | Nervous system and sense organs. | |
| | 4.8 | Regeneration | |
| | 4.9 | Economic importance | |

USZL112: Fundamentals of Cell Biology

| Unit No. | Subunit | Proposed syllabus Details | Suggestions |
|-----------------|---------|------------------------------|-------------------------------|
| | No | | |
| 01. | 1.1 | Definition and brief history | |
| Introduction to | 1.2 | Introduction to cell theory | |
| Cell Biology | 1.3 | Scope of Cell Biology | |
| (02 Lecture) | | | |
| 02. Study of | 2.1 | Size, Shape, Volume, | 2.1 Comparative study of |
| Prokaryotic | | Number, Structure | Prokaryotic cell and |
| cell and | | | Eukaryotic cell (Size, Shape, |

| Unit No. | Subunit No | Proposed syllabus Details | Suggestions |
|-------------------------------------|---------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Eukaryotic cell (01 Lecture) | 2.2 | Comparative study of plant and animal cell | Volume, Number, Structure) (Dr. Y.A.Karpe) Add 2.2 Comparative study of plant and animal cell (Dr. GDKhedkar) |
| 03. Structure | 3.1 | Chemical composition | |
| and functions | 3.2 | Fluid mosaic model | |
| of cell membrane (04 Lecture) | 3.3 | Functions of plasma (Cell) membrane | Use cell membrane |
| 04 Cytoplasm | 4.1 | Physical Organization | |
| 04. Cytoplasm (02 Lectures) | 4.2 | Chemical Composition & Biological Properties | |
| 05. Study of following cell | 5.1 | Endoplasmic reticulum | Title-Study of cell organelles and their functions |
| organelles | 5.2 | Golgi complex | |
| with respect to structure and | 5.3 | Lysosomes, Peroxisomes and Glyoxysomes | |
| functions in | 5.4 | Ribosomes | |
| brief (10 | 5.5 | Mitochondria | |
| Lectures) | 5.6 | Chloroplast | |
| 06. Nucleus (03 Lectures) | 6.1 | Shape, size, number and position | |
| | 6.2 | Ultrastructure of nucleus | |
| | 6.3 | Functions of nucleus | |
| | 7.1 | Cell cycle in brief | |
| 07. Cell | 7.2 | Mitosis | Title- Cell cycle |
| division and | | | 7.2 Cell division: 1. Mitosis |
| its significance | | | 2 Meiosis |
| (06) | 7.3 | Meiosis | 7.3 Significance of cell division |
| 08. | 8.1 | Introduction to | Title – Introduction to |
| Introduction to | | Centrifugation & Density | cytological techniques |
| Cell | | Gradient Centrifugation for | |
| Fractionation: (02) | | Separation of Cell organelles | |

USZL113: Zoology Practical-I

| Sr. | Title of Practical | Status | Suggestions |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No. | | | |
| 1. | To study the classification with reasons of the following: Phylum Protozoa- Amoeba, Paramecium, Euglena. Phylum Porifera- Spongilla, Sycon, Bath sponge. Phylum Coelenterata (Cnidaria) – Hydra, Aurelia, Tubipora. Identification of protozoans in | Demonstrations | Title: Taxonomic classification upto class level 1. Phylum Protozoa 2. Phylum Porifera 3. Coelenterata Identification of protozoans in pond water sample. |
| | pond water sample.(remove from | | |

| | here) | | |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------|
| 2. | To study the classification with reasons of the following: Phylum Platyhelminthes- <i>Taenia</i> , Planaria. Phylum Aschelminthes- <i>Ascaris</i> , Wuchereria bancrofti. (Filarial worm) Phylum Annelida- Nereis, Leech. | Demonstrations | Title: Taxonomic classification upto class level 1. |
| 3. | Preparation of Culture media & Culturing of Animals: Study of Culture & regeneration in Hydra OR Preparation of A)Paramecium culture & observation of live Paramecium (Cyclosis and Trichocysts) | Experimental | Title: Culturing of animals(Acathamoeba/Hydra / Paramoecium) |
| 4. | Vermiculture: Preparation of small scale Vermiculture bed for vermicomposting from domestic wastes. (Activity based learning) | Experimental | Title: Preparation of vermiculture laboratory unit (Activity based learning) |
| 5. | Study of Earthworm (<i>Pheretima posthuma</i>): Morphology, Digestive and Nervous system of Earthworm | E/D | Dissection of earthworm so as to learn its digestive and nervous system |
| 6. | Make scientific drawings of 5 locally available invertebrate specimens belonging to different phyla | D/E | |
| 7. | Microscopy: Study of Standard Operating Procedure of a Simple and Compound Microscope. (Activity based Learning) | Е | |
| 8. | Mountings from Cell Biology: Temporary preparation and observation of Prokaryotic and Eukaryotic cell in a suitable material. | E | Temporary preparation of a bacterial and protozoans on a slide and its observations under the microscope. |
| 9. | Study of different Cell Organelles: Mitochondria, Nucleus, Endoplasmic Reticulum, Golgi complex. (WithPicture/Model/Chart) | D | Ultrastructure study of: a. Mitochondria b. Nucleus c. Endoplasmic Reticulum d. Golgi complex (With Picture/Model/Chart) |
| 10. | Study of Cell Division: | Experimental | Study of mitotic cell division |

| | Study of Mitosis in onion root tip cells | | using onion root tips | |
|-----|---------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|--|
| 11. | Demonstrations from cells: Demonstration of Mitochondria by Janus green B OR Demonstration of Barr Body. | Experimental | Title: Demonstration of mitochondria using Janus Green B stain OR Demonstration of Barr Body | |
| 12. | Compulsory Zoological Study Tour: A Compulsory Visit to water body / Vermicomposting unit and submission of report. | | Title: Study Tour: Visit to established aquatic ecosystem / functional commercial vermicompost unit and submission of detailed tour report. | |
| 13. | Identification of any three museum specimens with help of taxonomic identification key. | | Title: Museum Study: Platyhelminthes, Aschelminthes, Annelida, (one specimen of each | |

All the suggestions are accepted unanimously and the syllabus was unanimously finalized.

3) To prepare and approve curriculum of M.Sc. (Zoology) Semester-I (2022 pattern) to be implemented from the academic year 2022-2023.

Resolution # 03: Syllabi of all courses of M.Sc.-I Semester-I (2022 Pattern) were discussed thoroughly and were finalized and accepted unanimously.

| M. Sc. | 2022 | I | PSZO 111 | Biochemistry & Bioenergetics | Theory | 04 |
|--------|------|---|----------|-------------------------------------------------------------------------------|-----------|----|
| M. Sc. | 2022 | I | PSZO 112 | Cell Biology | Theory | 04 |
| M. Sc. | 2022 | I | PSZO 113 | Fresh Water Zoology & Ichthyology | Theory | 04 |
| M. Sc. | 2022 | Ι | PSZO 114 | Biostatistics & Genetics | Theory | 04 |
| M. Sc. | 2022 | Ι | PSZO 115 | Zoology Practical - I Practicals Corresponding to PSZO 111 and PSZO 112 | Practical | 04 |
| M. Sc. | 2022 | Ι | PSZO 116 | Zoology Practical - II Practicals Corresponding to PSZO 113 & PSZO 114 | Practical | 04 |

4) To prepare and approve curriculum of certificate courses.

Resolution # **03**: Syllabi of the certificate courses- 1) Medical Diagnositics; 2) Ornamental Fishes & Aquarium Management; 3) Mathematics for Life Sciences were discussed, finalised and unanimously accepted for implementation.

5) To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.

Resolution # **05**: All the suggestions from feedback were discussed thoroughly and relevant suggestions were accepted unanimously.

6) Any other issue with the permission of the chair

Resolution # 06: Dr. Pokale suggested implementation of the evaluation pattern as per that of the affiliated colleges of SPPU. However, this suggestion was conveyed to academic council as it was a policy making issue.

The meeting of BoS concluded with the vote of thanks by Dr. Vitthal Nale..

Chairman Board of Studies

IQAC Coordinator

Coordinator
Internal Quality Assurance Cell
Tuljaram Chaturchand College of
Arts, Science and Commerce,
Baramati (Pune)-413102

Principal

Principal
Tuljaram Chaturchand, College
Baramati