



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.07

Date of Meeting: 06/10/2022

Venue: Department of Zoology

October, 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:

1. To confirm the minutes of previous BoS meeting held on 04th April 2022.
2. To prepare and approve curriculum of F.Y.B.Sc. (Zoology) Semester-II (2022 pattern) to be implemented from the academic year 2022-2023.
3. To prepare and approve curriculum of M.Sc.-I (Zoology) Semester-II (2022 pattern) to be implemented from the academic year 2022-2023.
4. To discuss amendments (if any) in the curriculum (F.Y.B.Sc. Sem-I and M.Sc. Sem-I) finalized in previous meeting.
5. To discuss and incorporate the relevant feedbacks of the stakeholders (students, teachers, parents, alumni and employers) in the curriculum.
6. Any other issue with the permission of the chair.



Head,
Department of Zoology

Anekant Education Society's
Tuljaram Chaturchand College, Baramati
(Autonomous)
Department of Zoology
List of BoS Members

The following internal and external BoS members attended the Board of Studies (Zoology) meeting through offline mode held on 06th October, 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, P.G. Coordinator, Department of Zoology, T. C. College, Baramati	Internal Member
4.	Dr. S. N. Pokale Professor in Zoology, New Arts, Science & Commerce, College, Ahmednagar.	Member, V. C. Nominee
5.	Dr. S. K. Gaikwad, Associate Professor, Bharati Vidyapeeth, Pune	Member, Other Universities
6.	Dr. Yogesh A. Karpe Scientist B, Agharkar Research Institute, Pune	External Member, Research & Industry
7.	Mr. Kishor U. More Assistant Professor, Department of Zoology, T. C. College, Baramati	Internal Invitee Member
8.	Mr. Mayur S. Shitole Assistant Professor, Department of Zoology, T. C. College, Baramati	Internal Invitee Member
9.	Ms. Rutuja R. Chavan, (T.Y.B.Sc.)	UG Student
10.	Mr. Subodh Nikam, (T.Y.B.Sc.)	UG Student
11.	Ms. Tamanna S. Tamboli, (M.Sc.-II)	PG Student
12.	Mr. Shubham Ghadage, (M.Sc.-II)	PG Student

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**TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE &
 COMMERCE, BARAMATI.
 AUTONOMOUS**

**Scheme of Course Structure (CBCS)
 Faculty of Science
 Post Graduate Department of Zoology
 SEMESTER III**

Class: M.Sc. II

Pattern: 40 (IA) + 60 (EA)

Sr. No.	Code	Paper	Paper Title	Credit	Exam	Marks
1	PSZO 231A	Theory	Entomology-I	4	I / E	40 + 60
	PSZO 231B	Theory	Animal Physiology-I	4	I / E	40 + 60
	PSZO 231C	Theory	Genetics-I	4	I / E	40 + 60
2	PSZO 232	Theory	Physiology, Biochemistry and Ecology of Insects	4	I / E	40 + 60
3	PSZO 233	Theory	Reproductive Physiology, Histology and Histochemistry of Mammals	4	I / E	40 + 60
4	PSZO 234	Theory	Economic Zoology	4	I / E	40 + 60
5	PSZO 235A	Zoology Practical-V	Zoology Practical-V (Practicals Corresponding to : PSZO 231A , PSZO 232)	4	I / E	40 + 60
6	PSZO 235B		Zoology Practical-V (Practicals Corresponding to : PSZO 231B , PSZO 232)	4	I / E	40 + 60
7	PSZO 235C		Zoology Practical-V (Practicals Corresponding to : PSZO 231C , PSZO 232)	4	I / E	40 + 60
8	PSZO 236	Zoology Practical-VI	Zoology Practical-VI (Practicals Corresponding to : PSZO 233 , PSZO 234)	4	I / E	40 + 60
	SD-31		Skill Development	2	-	

**IA* - Internal Assessment
 EA*- External Assessment**

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**Scheme of Course Structure (CBCS)
 Faculty of Science
 Post Graduate Department of Zoology
 SEMESTER IV**

Class: M.Sc. II

Pattern: 40 (IA) + 60 (EA)

Sr. No.	Code	Paper	Paper Title	Credit	Exam	Marks
1	PSZO 241A	Theory	Entomology-II	4	I / E	40 + 60
	PSZO 241B	Theory	Animal Physiology-II	4	I / E	40 + 60
	PSZO 241C	Theory	Genetics-II	4	I / E	40 + 60
2	PSZO 242	Theory	Immunology and Parasitology	4	I / E	40 + 60
3	PSZO 243	Theory	Pest Control and Toxicology	4	I / E	40 + 60
4	PSZO 244	Theory	Environmental Biology and Animal Systematics & Diversity	4	I / E	40 + 60
5	PSZO 245A	Zoology Practical-VII	Zoology Practical-VII (Practicals Corresponding to : PSZO 241A , PSZO 242, PSZO 244)	4	I / E	40 + 60
6	PSZO 245B		Zoology Practical-VII (Practicals Corresponding to : PSZO 241B , PSZO 242, PSZO 244)	4	I / E	40 + 60
7	PSZO 245C		Zoology Practical-VII (Practicals Corresponding to : PSZO 241C , PSZO 242, PSZO 244)	4	I / E	40 + 60
8	PSZO 246	Research Project	DISSERTATION (Review of Literature and Summer /Industrial Training)	4	I / E	40 + 60
	SD-41		Skill Development	2	-	-

IA* - Internal Assessment

**EA*- External
 Assessment**

MINUTES OF THE MEETING

As per the Notice no. 219, dated 12/09/2022, issued by the college, the meeting of Board of Studies in Zoology was successfully held on 06th October, 2022 at 11:00 am in the Department of Zoology, T. C. College, Baramati. The meeting was conducted in the department of Zoology, 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 April 2022.

Resolution # 01 Minutes of the previous meeting were read by Mr. Sandip Chordiya and same were confirmed unanimously.

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

Resolution # 01: Curriculum of **F.Y.B.Sc. (Zoology) Semester-II (2022 pattern)** was discussed thoroughly. Summary of the discussion is as follows and as per discussion, the curriculum was finalized and accepted unanimously.

Paper Code	Title	Name of member	Suggestion	Status of suggestion
USZL 111	Animal Systematics & Diversity- II	Dr. V. B. Nale	Title: Animal Diversity -II	Title unanimously accepted
		Dr. G. D. Khedkar	Unit – 1- Rename General characters and classification up to order level with oneexample from following:	Renames unanimously accepted
		Dr. S. N. Pokale	Unit – 3- 3.5 Add Brain and spinal cord 3.6 Add Eye, ear and skin	Addition unanimously accepted
		Dr. V. B. Nale	Unit – 4- Remove Pisces- Accessory respiratory organs and scales	Deletion unanimously accepted

			Amphibia- Parental care	
USZL 112	Genetics	Dr. S. N. Pokale	Unit – 1- Add basic concepts of genetics	Addition unanimously accepted
		Dr. D. M Sangale	Unit- 2- Remove Duplicate dominant factors	Deletion unanimously accepted
			Unit- 3- Remove lethal genes in <i>Mus musculus</i> (Mice)	
			Unit- 4 - Add special type of chromosome and chromosomes theory	Addition unanimously accepted
		Mr. M. S. Shitole	Unit-4- Remove Concept of polygenic inheritance with Reference to skin Colour in Human being.	Deletion unanimously accepted
		Mr. S. P. Chordiya	Unit-6- Remove Cri du Chat and Alkaptonuria	
USZL 113	Zoology Practical II	Dr. S. K. Gaikwad	Title: Animal Diversity –II And Genetics Lab	Title unanimously accepted
		Dr. V. B. Nale	Add Practical Study of fish chromatophores	Addition unanimously accepted
		Dr. G. D. Khedkar	Practical 4- Add Length-weight relationship in	Addition unanimously accepted
		Dr. D. M Sangale	Add Practical one abnormal karyotype (any one of Down' s Klinefelter's or turner's from metaphase chromosomal spread picture	Addition unanimously accepted

➤ This was unanimously accepted.

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

Resolution # 03: Curriculum of M.Sc. (Zoology) Semester-II (2022 pattern) was discussed thoroughly. Summary of the discussion is as follows and as per discussion, the curriculum was finalized and accepted unanimously.

Paper Code	Title	Name of member	Suggestion	Status of suggestion
PSZO 121	Molecular Biology	Dr. G. D. Khedkar	Unit 2- Remove DNA Polymerase	Deletion unanimously accepted

		Dr. D. M Sangale	Unit 2- Remove Models of DNA replication Unit 3 Remove kinetic and sequence complexity	Deletion unanimously accepted
		Mr. K. U. More	Unit 5- Remove Double strand break repair, transcriptional coupled repair and Nick Translation	Deletion unanimously accepted
		Dr. D. M Sangale	Unit 5- Add Light dependent repair system	Addition unanimously accepted
		Dr. G. D. Khedkar	Unit 6- Add RNA polymerase, types RNA and its structure.	Addition unanimously accepted
		Dr. D. M Sangale	Unit 7- Remove translocation of peptides	Deletion unanimously accepted
			Unit 10- Remove Cloning of desired gene	Deletion unanimously accepted
PSZO 122	Developmental Biology	Mr. K. U. More	Unit 1- Remove Developmental patterns in unicellular protists and model organisms	Deletion unanimously accepted
			Unit 1- Add Growth and commitment	Addition unanimously accepted
		Dr. S. N. Pokale	Unit 1- Add Title: Introduction to Basic concepts of Developmental Biology	Title unanimously accepted
		Dr. G. D. Khedkar	Merge Unit 2 and 3	Merging unanimously accepted
		Dr. S. N. Pokale	Unit 5- Add 5.1 Plane and types of cleavage	Addition unanimously accepted
		Mr. M. S. Shitole	Unit 5- Add 5.4 Development & Axis formation in <i>C. elegans</i> (including vulva formation), Sea urchin, <i>Xenopus</i> and Mammals.	Addition unanimously accepted
		Mr. K. U. More	Remove Egg activation	Deletion unanimously accepted
		Dr. G. D. Khedkar	Unit 7- Add Development of <i>Drosophila</i> and axis formation	Addition unanimously accepted

		Mr. K. U. More	Add New Unit Regeneration: Types of regeneration (Stem cell mediated, epimorphosis, morpholaxis and compensatory regeneration)	Addition unanimously accepted
PSZO 123	Comparative animal physiology and Endocrinology	Section A: Comparative animal physiology		
		Mr. M. S. Shitole	Unit 1- Add 1.1 Types of nutrition, special dietary requirements of animals Add 1.2 Food intake and feeding mechanisms, Comparative physiology of digestion	Addition unanimously accepted
		Mr. S. P. Chordiya		Addition unanimously accepted
		Mr. M. S. Shitole	Unit 3- Add 3.4 Sliding filament theory	Addition unanimously accepted
		Dr. V. B. Nale	Unit 4- Add 4.2 Osmoregulation and biological responses in different environments	Addition unanimously accepted
		Mr. S. P. Chordiya	Unit 7- Remove Anatomy of Brain	Deletion unanimously accepted
PSZO 123	Comparative animal physiology and Endocrinology	Section B: Endocrinology		
		Mr. K. U. More	Unit 1- Remove 1.1 Structure of hormone	Deletion unanimously accepted
		Mr. K. U. More	Unit 2-Remove Hormone receptor as it is repeated in PSZO: 1Cell Biology	Deletion unanimously accepted
		Dr. G. D. Khedkar	Merge Unit 2 & 3 and Rename Master Endocrine gland and their hormones.	Merging and Renaming unanimously accepted
PSZO 123	Comparative animal physiology and Endocrinology	Dr. G. D. Khedkar	Unit 7- Add 7.1 Types and role of GI hormones.	Addition unanimously accepted
		Mr. K. U. More	Unit 9-Remove Hormonal Regulation of in Cephalopod Molluscs and Echinoderms	Deletion unanimously accepted
				Unit 10- Remove Hormonal regulation of metamorphosis in insect

PSZO 124	Biological Techniques	Dr. G. D. Khedkar	Title: Tools and Techniques in Biology	Title unanimously accepted
			Unit 2-Rename Principle and applications of Spectroscopy	Rename unanimously accepted
		Dr. S. K. Gaikwad	Unit 5- Rename Principle and applications of Chromatography	
		Mr. K. U. More	Unit 6- Add 6.3 DNA Markers: RAPD, RFLP & AFLP	Addition unanimously accepted
		Dr. G. D. Khedkar	Add 6.5 DNA sequencing technology (Sanger and Next generation)	
		Dr. S. K. Gaikwad	Unit 9-Rename 9.1 Basic concept of Nanotechnology	Rename unanimously accepted
PSZO 125	Zoology Practical-III	Dr. S. K. Gaikwad and Dr. S. N. Pokale	Section I –PSZO- 121: Molecular Biology	
			Title: Molecular and Developmental Biology Lab	Title unanimously accepted
		Dr. G. D. Khedkar	Practical No. 3 -Rename Isolation of bacterial DNA, quantification and quality check. Practical No. 4- Rename Isolation of DNA from sheep/chicken liver, quantification and quality check Remove Practical No. 5	Rename unanimously accepted
PSZO 125	Zoology Practical-III	Dr. G. D. Khedkar	Remove Practical Quantification of isolated DNA by agarose gel electrophoresis.	Deletion unanimously accepted

		Dr. D. M Sangale	Add Practical Study of induced mutation by chemical mutagen.	Addition unanimously accepted	
			Add Practical Study of induced mutation by physical mutagen (U V Light)		
		Dr. S. K. Gaikwad	Section II- PSZO122: Developmental Biology		
			Practical No. 1- Remove Permanent mounts of chick embryo.	Rename unanimously accepted	
		Dr. G. D. Khedkar	Practical No. 4- Rename <i>Drosophila</i> development: Egg structure and early development in culture by phase contrast microscope.		
		PSZO 126	Zoology Practical-IV	Dr. S. K. Gaikwad and Dr. S. N. Pokale	Title: Physiology, endocrinology and Biological Techniques Lab
Dr. G. D. Khedkar	Section I- PSZO123: Comparative Animal Physiology & Endocrinology				
	Practical No. 4- Rename Determination of the heart beat and effect of temperature & ions in crab			Rename unanimously accepted	
Dr. G. D. Khedkar	Practical No. 3- Remove Human blood			Deletion unanimously accepted	
Mr. M. S. Shitole	Remove practical Effect of insulin on the blood sugar of rat and Estimation of lactate content of rat/crab/human blood			Deletion unanimously accepted	
Mr. M. S. Shitole	Add Practical Determination of oxalic acid levels in mammalian urine by titration method			Addition unanimously accepted	
Dr. G. D. Khedkar	Section II – PSZO: 124 Tools and techniques in Biology				
	Practical No. 4- Rename Principle and demonstration of PCR and thermo cycler machine			Rename unanimously accepted	

04) To discuss amendments (if any) in the curriculum (F.Y.B.Sc. Sem-I and M.Sc. Sem-I) finalized in previous meeting.

Resolution # 04: The word “compulsory” was removed unanimously from practical # 12 of the course USZL 113.

05) 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.

06) Any other issue with the permission of the chair

There was no any incidental issue. Hence, the meeting was concluded with vote of thanks.

The vote of thanks was proposed 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
Prindpal
Tuljaram Chaturchand College
Baramati

