



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.09**

**Date of Meeting: 09/06/2023**

**Venue: Department of Zoology**

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June, 2023

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 08<sup>th</sup> April 2023.
2. To prepare & approve the credit structure for first year UG & PG (Sem-I & II each) according to NEP-2020.
3. To prepare and approve curriculum of E.Y.B.Sc. (Zoology) Semester-I (as per NEP 2020) (2023 pattern) to be implemented from the academic year 2023-2024.
4. To prepare and approve curriculum of M.Sc.-I (Zoology) Semester-I (as per NEP 2020) (2023 pattern) to be implemented from the academic year 2023-2024.
5. To identify & finalize the certificate courses from SWAYAM / MOOC platform for the classes SY & TYBSc.
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.



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 / online mode held on 09<sup>th</sup> June, 2023.

Sr. No.	Name of Member	Designation
1.	<b>Mr. Sandip P. Chordiya</b> Assistant Professor, Department of Zoology, T. C. College, Baramati	Chairman
2.	<b>Dr. Vitthal B. Nale</b> Assistant Professor, Department of Zoology, T. C. College, Baramati	Internal Member
3.	<b>Dr. Deepali M. Sangale</b> Assistant Professor, P.G. Coordinator, Department of Zoology, T. C. College, Baramati	Internal Member
4.	<b>Dr. S. N. Pokale,</b> Professor, New Arts, Commerce & Science College, Ahmednagar.	External Member
5.	<b>Dr. S. K. Gaikwad</b> Associate Professor, Bharati Vidyapeeth, Pune	External Member
6.	<b>Mr. Kishor U. More</b> Assistant Professor, Department of Zoology, T. C. College, Baramati	Internal Invitee Member
7.	<b>Mr. Mayur S. Shitole</b> Assistant Professor, Department of Zoology, T. C. College, Baramati	Internal Invitee Member
8.	<b>Ms. Sana J. Sayyad, (TYBSc)</b>	UG Student
9.	<b>Mr. Subodh Nikam, (TYBSc)</b>	UG Student

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## MINUTES OF THE MEETING

As per the Notice no. 53, dated 29/05/2023, issued by the college, the meeting of Board of Studies in Zoology was successfully held on 09<sup>th</sup> June, 2023 at 11:00 am in the Department of Zoology, T. C. College, Baramati. The meeting was conducted in mixed mode (online & offline) 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 08<sup>th</sup> April 2023.**

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

**02) To prepare & approve the credit structure for first year UG & PG (Sem-I & II each) according to NEP-2020.**

**Resolution #02: Credit structure for first year UG & PG (Semester-I & II) was finalized unanimously as mentioned below.**

Sem	Course Type	Course Code	Course Name	Theory / Practical	Credits
I	Major Mandatory	ZOO-101-MJM	Animal Systematics & Diversity – I	Theory	02
	Major Mandatory	ZOO-102-MJM	Fundamentals of Cell Biology	Theory	02
	Major Mandatory	ZOO-103-MJM	Zoology Practical – I	Practical	02
	Open Elective (OE)	ZOO-116-OE	गोड्या पाण्यातील मत्स्य शेती	Theory	02
	Open Elective (OE)	ZOO-117-OE	गोड्या पाण्यातील मत्स्य शेती (प्रात्यक्षिक)	Practical	02
	Vocational Skill Course (VSC)	ZOO-121-VSC	Biological Techniques-I	Theory	02
	Skill Enhancement Course (SEC)	ZOO-126-SEC	Medical Laboratory Technology-I	Practical	02
	Ability Enhancement Course (AEC)	ENG-131-AEC	Functional English-I	Theory	02
	Value Education Course (VEC)	ZOO-135-VEC	Environmental Science	Theory	02
	Indian Knowledge System (IKS)	ZOO-137-IKS	Animal Diversity & Conservation in Indian Culture	Theory	02
	Co-curricular Course (CC)	--	To be selected from the Basket	Theory	02
<b>Total Credits Semester-I</b>					<b>22</b>

Sem	Course Type	Course Code	Course Name	Theory / Practical	Credits
II	Major Mandatory	ZOO-151-MJM	Animal Systematics & Diversity – II	Theory	02
	Major Mandatory	ZOO-152-MJM	Genetics	Theory	02
	Major Mandatory	ZOO-153-MJM	Zoology Practical – II	Practical	02
	Minor	ZOO-161-MN	Apiculture	Theory	02
	Open Elective (OE)	ZOO-166-OE	पिकावरील कीड: प्रकार व व्यवस्थापन	Theory	02
	Open Elective (OE)	ZOO-167-OE	पिकावरील कीड: प्रकार व व्यवस्थापन (प्रात्यक्षिक)	Practical	02
	Vocational Skill Course (VSC)	ZOO-171-VSC	<b>Biological Techniques-I</b>	Practical	02
	Skill Enhancement Course (SEC)	ZOO-176-SEC	<b>Medical Laboratory Technology -II</b>	Practical	02
	Ability Enhancement Course (AEC)	ENG-181-AEC	Functional English-II	Theory	02
	Value Education Course (VEC)	ZOO-185-VEC	Digital and Technological Solutions	Theory	02
	Co-curricular Course (CC)	--	To be selected from the Basket	Theory	02
	<b>Total Credits Semester-II</b>				
<b>Cumulative Credits Semester I + Semester II</b>					<b>44</b>

Sem	Course Type	Course Code	Course Name	Theory / Practical	Credits
I	Major Mandatory	ZOO-501-MJM	Biochemistry & Bioenergetics	Theory	04
	Major Mandatory	ZOO-502-MJM	Cell Biology	Theory	04
	Major Mandatory	ZOO-503-MJM	Zoology Practical-I	Practical	02
	Major Mandatory	ZOO-504-MJM	Zoology Practical-II	Practical	02
	Major Elective	ZOO-511-MJE (A)	Freshwater Zoology & Ichthyology	Theory	04
		ZOO-511-MJE (B)	Biostatistics & Genetics		
		ZOO-511-MJE (C)	Biological Techniques		
Research Methodology (RM)	ZOO-521-RM	Research Methodology	Theory	04	
<b>Total Credits Semester-I</b>					<b>20</b>
II	Major Mandatory	ZOO-551-MJM	Molecular Biology	Theory	04
	Major Mandatory	ZOO-552-MJM	Developmental Biology	Theory	04
	Major Mandatory	ZOO-553-MJM	Zoology Practical-III	Practical	02
	Major Mandatory	ZOO-554-MJM	Zoology Practical-IV	Practical	02
	Major Elective	ZOO-561-MJE (A)	Entomology-I	Theory	04
		ZOO-561-MJE (B)	Animal Physiology-I		
		ZOO-561-MJE (C)	Genetics-I		
On Job Training (OJT)/Field Project (FP)	ZOO-581-OJT/FP	On Job Training/Field Project relevant to the major course.	Training / Project	04	
<b>Total Credits Semester-II</b>					<b>20</b>
<b>Cumulative Credits Semester I + Semester II</b>					<b>40</b>

**Credit structure of FYBSc (Sem-I & II) and MSc (Sem-I & II) was finalized unanimately as mentioned above.**

3. To design and approve the curriculum in accordance with the NEP 2020 for FYBSc (Semester-I) from the academic year 2023-2024. The board carefully designed and

deliberated upon the curriculum of FYBSc Semester-I, aligning it with the guidelines of the National Education Policy (NEP) 2020, for implementation in the academic year 2023-2024. During the discussion, certain modifications were suggested by the board members. Dr. S. N. Pokale proposed the removal of shortform GLP and add full form Good Laboratory Practices from the course USZLVSC 1 Biological Techniques-I. Considered and approved.

Syllabi of the following courses of FYBSc (Sem-I) were discussed in detail and finalized in the meeting.

Sem	Course Type	Course Code	Course Name	Theory / Practical	Credits
I	Major Mandatory	ZOO-101-MJM	Animal Systematics & Diversity – I	Theory	02
	Major Mandatory	ZOO-102-MJM	Fundamentals of Cell Biology	Theory	02
	Major Mandatory	ZOO-103-MJM	Zoology Practical – I	Practical	02
	Open Elective (OE)	ZOO-116-OE	गोड्या पाण्यातील मत्स्य शेती	Theory	02
	Open Elective (OE)	ZOO-117-OE	गोड्या पाण्यातील मत्स्य शेती (प्रात्यक्षिक)	Practical	02
	Vocational Skill Course (VSC)	ZOO-121-VSC	Biological Techniques-I	Theory	02
	Skill Enhancement Course (SEC)	ZOO-126-SEC	Medical Laboratory Technology-I	Practical	02
	Ability Enhancement Course (AEC)	ENG-131-AEC	Functional English-I	Theory	02
	Value Education Course (VEC)	ZOO-135-VEC	Environmental Science	Theory	02
	Indian Knowledge System (IKS)	ZOO-137-IKS	Animal Diversity & Conservation in Indian Culture	Theory	02
	Co-curricular Course (CC)	--	To be selected from the Basket	Theory	02
<b>Total Credits Semester-I</b>					<b>22</b>

Major / Mandatory courses ZOO-101-MJM: Animal Systematics & Diversity-I, ZOO-102-MJM: Fundamentals of Cell Biology, ZOO-103-MJM: Zoology Practical – I, open elective courses ZOO-116-OE: गोड्या पाण्यातील मत्स्यशेती, ZOO-117-OE: गोड्या पाण्यातील मत्स्यशेती (प्रात्यक्षिक), vocational / Skill Enhancement courses ZOO-121-VSC:- Biological Techniques-I, ZOO-126-SEC: Medical Laboratory Technology-I, and a course from Indian Knowledge System ZOO-137-IKS: Animal Diversity & Conservation in Indian Culture.

Finally, it was agreed that the revised curriculum would be submitted to the academic council of the college for approval.

**Considered and approved.**

**4. To design and approve the curriculum in accordance with the NEP 2020 for M.Sc. Part-I (Semester-I) Zoology from the academic year 2023-2024.**

The board carefully designed and deliberated upon the curriculum of M.Sc. Part-I, Semester-I Zoology, in accordance with the guidelines of the National Education Policy (NEP) 2020, for implementation from the academic year 2023-2024. During the discussion, some minor changes were suggested by the board members. The board thoroughly discussed and finalized the syllabus for the courses of M.Sc. Part-I, Semester-I (Zoology).

Sem	Course Type	Course Code	Course Name	Theory / Practical	Credits
I	Major Mandatory	ZOO-501-MJM	Biochemistry & Bioenergetics	Theory	04
	Major Mandatory	ZOO-502-MJM	Cell Biology	Theory	04
	Major Mandatory	ZOO-503-MJM	Zoology Practical-I	Practical	02
	Major Mandatory	ZOO-504-MJM	Zoology Practical-II	Practical	02
	Major Elective	ZOO-511-MJE (A)	Freshwater Zoology & Ichthyology	Theory	04
		ZOO-511-MJE (B)	Biostatistics & Genetics		
		ZOO-511-MJE (C)	Biological Techniques		
	Research Methodology (RM)	ZOO-521-RM	Research Methodology	Theory	04
<b>Total Credits Semester-I</b>					<b>20</b>

Major / Mandatory courses ZOO-501-MJM: Biochemistry & Bioenergetics, ZOO-502-MJM: Cell Biology, ZOO-503-MJM: Zoology Practical-I, ZOO-504-MJM: Zoology Practical-II; Major Elective courses ZOO-511-MJE (A): Freshwater Zoology & Ichthyology / (B) Biostatistics & Genetics / (C) Biological Techniques; and a course from research methodology ZOO-521-RM: Research Methodology. Syllabi of all these courses were discussed thoroughly and finalized with minor changes.

**Considered and approved.**

#### **5. To introduce MOOC Certificate courses from SWAYAM platform for the S.Y.B.Sc. and T.Y.B.Sc. as per 2022 pattern**

According to the guidelines provided by the IQAC of the college, the BoS conducted a comprehensive review and identified suitable MOOC courses from the SWAYAM platform related to the subject of Zoology. Detailed discussions were held on each of the identified MOOC courses, considering their applicability and usefulness to the students of SYBSc and TYBSc. Subsequently, all the courses were approved, and it was determined that all courses would be submitted to the IQAC, based on the requirement and availability of courses.



The following MOOC courses have been approved from the SWAYAM platform.

Sr. No.	Title of the MOOCourse	National Coordinator	Course coordinator
1	Sustainable Management of Biodiversity	IGNOU	Dr. Shachi Shah
2	Sericulture Technology	CEC, Tamilnadu Agricultural University, T'nadu.	Dr. M. Swamiappan
3	Physics of Biological Systems	NPTEL	Prof. Mithun Mitra
4	Principles of Biotechnology	CEC, Tamilnadu Agricultural University, T'nadu.	Dr. P. Nagarajan
5	Genetics & Genomics	CEC	Dr. Jos T. Puthur
6	Evolutionary Biology	CEC	Dr. Nayan K. Jain

**Considered and approved.**

6. To adopt Learning Outcomes-based Approach to Curriculum Planning and development as per NEP 2020, LOCF (UGC), NCrf and NHEQF guidelines from the academic year 2023-2024.

The Board of Studies (BoS) engaged in a thorough discussion regarding the adoption of a Learning Outcomes-based Approach to Curriculum Planning and Development, in alignment with the guidelines set forth by NEP 2020, LOCF (UGC), NCrf, and NHEQF. It was acknowledged that this approach would enhance the quality and relevance of the curriculum, making it more responsive to the needs of students and the changing dynamics of the education field. After a detailed discussion, the Board of Studies unanimously resolved to adopt a Learning Outcomes-based Approach to Curriculum Planning and Development.

**Considered and approved.**

**7. Any other issue with the consent of Chairperson.**

The following agenda item is taken as additional issue in the BoS meeting.

**i) To consider the feedbacks and suggestions provided by the alumni and students of UG and PG classes while designing the syllabus of FYBSc and MSc (Zoology).**

The Chairman initiated the discussion by highlighting the importance of incorporating feedback from both Alumni and current students in the syllabus designing process. It was noted that their insights and suggestions would greatly contribute to creating a curriculum that aligns with the needs and expectations of the students. Therefore, the BoS members reviewed the feedback and suggestions given by the alumni and students and incorporated the relevant suggestions into the curriculum of F.Y.B.Sc. and M.Sc. Zoology.

**Considered and Approved.**

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

All the suggestions & amendments are accepted unanimously.

