

26th September 2024

Online google meet

12:00 pm to 1:00 pm

Discussions

Agenda: 1-To approve the MOM of last BOS.

All members of the Board of Studies approved the Minutes of the meeting held on February 22, 2024.

Agenda:2- To seek approval for the changes in the syllabus as per NEP 2020 structure for First year, Second year and Third year UG (Semester II, IV and VI) courses

The department members have decided to keep the existing syllabus for Sem II, Sem IV, and Sem VI. The Board of Studies has agreed with this choice and provided some recommendations.

- 1) In relation to the second semester of the Apiculture program, Dr. Binay Nayak recommended that the department establish a partnership or collaboration with an Apiculture center. Additionally, he proposed that the college consider inviting a professor of practice or an adjunct faculty member who specializes in Apiculture, as this would provide enhanced exposure to the field and its future opportunities.
- 2) Dr. Binay Nayak and Mr. Akshay Nachane proposed the inclusion of the ISO standard for carbon footprint in the syllabus for Semester VI, Unit I.
- 3) The department proposed to include aquarium management in the MSc syllabus for semesters I and III. This modification was approved by the Board of Studies members.

Agenda:3- To seek approval for the changes in Modalities of assessment (UG and PG), if any

The Board of Studies members have endorsed the current assessment modalities for undergraduate and postgraduate courses.

In relation to the preparation and moderation of examination papers, Dr. Binay Nayak inquired about the individuals responsible for setting and moderating the postgraduate papers. In response, Miss Anjali Mali clarified that the examination papers are prepared by the teachers who teach the respective course or unit, and they are checked by the concerned teachers and moderated by external examiners.

Agenda:4- To seek suggestions on Field projects / CEP (Community Engagement Programs) to be conducted in Semester III and IV 2025-25

Akshay Nachane stated that for the field project, students may utilize the line transect or quadrant method for conducting studies on animal populations.

Agenda:5- Any other matter with the permission of chair

Dr. Binay Nayak expressed his willingness to help arrange a visit to CIFE, Varsoa, for the Aquaculture and Marine Science students.

BOS members present

Dr. Binaya Nayak

Dr. Ramesh Chondekar

Mr. Akshay Nachane

Ms. Suchitra Naik

Department members present

Dr Vaishali Phusate

Dr Durga Patkar

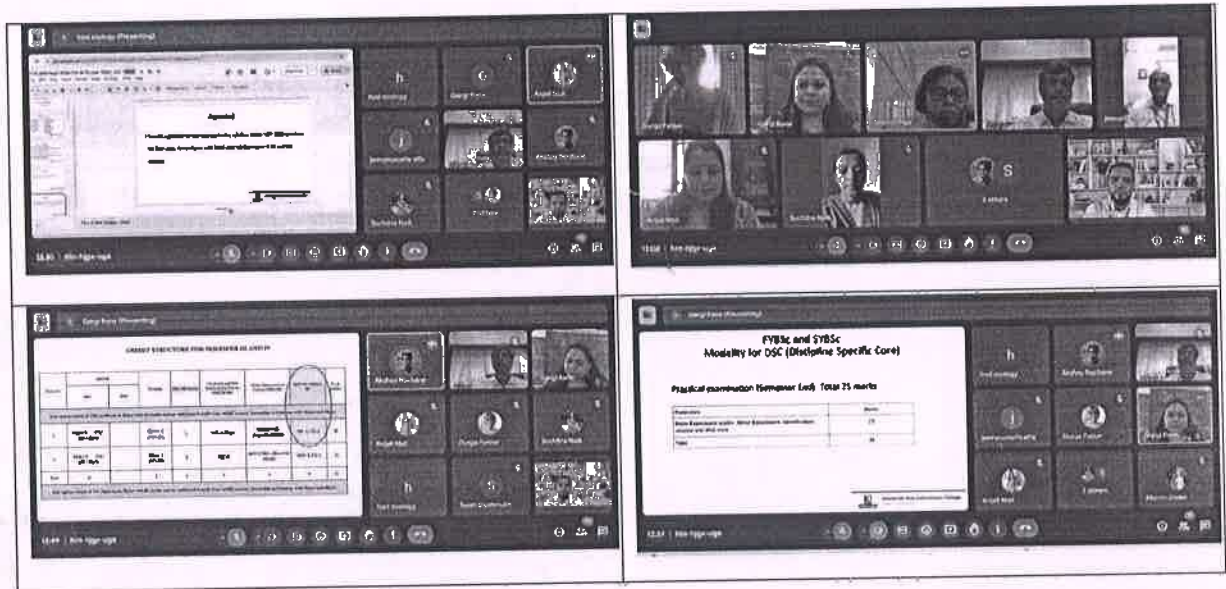
Dr Gargi Rane

Dr Swati Deshmukh

Dr Momin Shakir

Miss Anjali Mali

Proofs



D.S. Patkar

Dr Durga Patkar

Assistant professor and HOD

Department of Zoology,

Ramnarain Ruia Autonomous College, Mumbai

Aslam

Principal

Ramnarain Ruia Autonomous College

Matunga, Mumbai-400 019.



**S.P. Mandali's
RAMNARAIN RUIA AUTONOMOUS COLLEGE,
MATUNGA, MUMBAI 400 019
DEPARTMENT OF ZOOLOGY
Academic Year 2024-25**

Minutes of the meeting of the Board of Studies in Subject Zoology

The 2nd Board of Studies in Zoology meeting for the Academic year 2024-25 was held on 29th March 2025 at 10:00 am on Online mode (Google Meet <https://meet.google.com/afg-cfnd-wfd>). The following members attended the meeting.

• **External members present for the meeting**

Sr. No.	Name	Members
1.	Dr. Subhash Donde (Department of Zoology, Kirti M. Doongursee College, Mumbai)	Subject Expert, Vice-Chancellor Nominee, University of Mumbai.
2.	Dr. Binaya Nayak (Principal Scientist and Head, Fisheries Resources, Harvest and Post-Harvest technology Division, Central Institute of Fisheries Education, Mumbai.)	Subject Expert from outside parent University
3.	Dr. Ramesh Chondekar (Associate Professor, Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.)	Subject Expert from outside parent University
4.	Ms. Suchitra Naik (Embryologist, Lilavati Hospital, Mumbai)	Meritorious alumnus
5.	Mr. Akshay Nachane (Co-Lead Ecology and Biodiversity, Terracon Eco Tech Pvt. Ltd.)	Representative from Industry / corporate sector.

• **Internal faculty members of the Department present for the meeting.**

1. Dr. Vaishali Phusate -HoD
2. Dr. Durga Patkar
3. Dr. Gargi Rane
4. Dr. Swati Deshmukh
5. Dr. Shakir Momin
6. Ms. Anjali Mali

Meeting Proof



Dr. Vaishali Phusate convened the online BoS meeting. Dr. Vaishali welcomed and introduced the members. The following agenda of the meeting was mailed to all members Dr. Vaishali and again informed.

1. **To approve the Minutes of the earlier meeting.**
2. **To discuss and approve the changes in the syllabi as per NEP2020 structure for TYBSc Zoology (Semester V and VI for the year 2025-26).**
3. **To seek the approval for TYBSc Zoology (Semester V and VI) Modality of assessment.**
4. **Any other matter with the permission of the Chair.**

Each agenda was taken up thereafter

Agenda Item No. 1: To approve the Minutes of the meeting held on 26th September 2024 at 12:00 noon on Online mode (Google Meet <https://meet.google.com/htn-hjgx-uga>).

DISCUSSED and RESOLVED: The minutes of the meeting had been mailed to the members. No comments have been received. Again 26th September 2024 BoS minutes were discussed and approved by all the members.

- All the members approved the 26th September 2024 minutes of the meeting.

Agenda Item No. 2: To discuss and approve the changes in the syllabi as per NEP2020 structure for TYBSc Zoology (Semester V and VI for the year 2025-26).

Discussion- Dr. Durga Patkar and Dr.Gargi Rane presented TYBSc Zoology, Semester V and VI syllabus. Each paper was discussed, external members suggested changes and the papers were approved as following.

SEM V DSC

Course	Units	Topics	Approved/Suggestions of BOS members
DSC1	I	Earthworm	Approved
Animal types and Entomology	II	Pigeon	Approved
	III	Entomology	Dr. Ramesh Chondekar proposed the inclusion of a section on the efficiency of insects, focusing on the various types of insects and their adaptability to different ecological niches, as well as their interactions with the environment. Accepted and approved.
	PRAC	2hrs	Approved
DSC2	I	Biomolecules	Approved
Biomolecules and Immunology	II	Enzymology	Approved
	III	Immunology	Approved
	PRAC	2 hrs	Approved
DSC3	I	Human Genetics	Approved

Genetics and Tissue culture	II	Genetic Engineering	Approved
	III	Animal Tissue culture	Approved
	PRAC	2 hrs	Approved

Sem V DSE

DSE 1 A Marine Science	I	Zonation and Biological Oceanography	Approved
	II	Physical and Chemical Oceanography	Approved
	III	Sustainable fishery	Approved
	Prac	2hrs	Approved
DSE 1 B Aquaculture	I	Introduction to commercial aquaculture	Dr. Binaya Nayak proposed the title "Aquatic Resources and Their Utilization" for the paper. Accepted and approved.
	II	Marine products	Dr. Binaya Nayak proposed that the title be revised to include "Products from Aquatic Sources" and "Single Cell Protein: Spirulina." Accepted and approved.
	III	Introduction to quality control, preservation and processing	Dr. Binaya Nayak suggested removing Hyperemia and microbial spoilage to be added. Accepted and approved.
	Prac	2 hrs	Dr. Binaya Nayak suggested adding Indian major carp and lesser sardine in place of sardine and Visit to museum to be added. Accepted and approved.

VSC Sem V

VSC Haematological	All the practicals were approved
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techniques	
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Minor Sem V

Unit I	Public health	Dr. Binaya Nayak suggested to add Public hygiene: Mode of transmission (air, water, soil and food), Systemic and Contagious diseases (Overview) Accepted and approved.
Practical		Approved

Sem VI DSC

Course	Units	Topics	Approved/Suggestions of BOS members
DSC1	I	Evolution + Population genetics	Dr. Ramesh Chondekar proposed the inclusion of Modern Synthesis theory, the concept of morphological species, and the evolutionary forces that affect gene frequency. Accepted and approved.
Evolutionary dynamics and Developmental Biology	II	Ethology	Approved
	III	Developmental Biology	Approved
	PRAC	2 hrs	Approved
DSC2	I	Histology	Approved
Physiology, Histology and Endocrinology	II	Endocrinology	Approved
	III	Physiology	Approved
	PRAC	2 hrs	Approved
DSC3	I	Toxicology	Dr. Ramesh Chondekar suggested to add Nuclear radiation: Mechanism and effects. Accepted and approved.

Computational Biology and Ethics	II	Biostatistics + Bioinformatics	Approved
	III	Research Methodology + Ethics	Approved
	PRAC.	2 hrs	Approved

SEM VI DSE

DSE 1 A Environmental Biology	I	Environmental management	Mr. Akshay Nachane suggested to add (GHG emissions: scope 1, 2 and 3) and its application Accepted and approved.
	II	Zoogeography	Mr. Akshay Nachane suggested to add Biogeographic zones in India Accepted and approved.
	III	SDG goals and Environmental law	Mr. Akshay Nachane and Dr. Binaya nayak suggested to add Environmental Impact Assessment Notifications, 2006 and Role of National Green Tribunal (NGT) Accepted and approved.
	prac		Approved
DSE 1 B Pathology	I	General pathology	Approved
	II	Systemic pathology	Approved
	III	Applied pathology and its application	Approved
	prac		Approved

Minor Sem VI

Unit I	Nutrition and public health	Approved
Practical		Approved

Sem VI OJT

Syllabus	1) Study of Marine biodiversity 2) Study of Mangrove ecology 3) Study of bird fauna 4) Study of Insect fauna 5) Study and identification of Snakes 6) Animal enrichment (care and behaviour) and visit to the Zoo. 7) Identification of fishes and visit to aquarium	Approved
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External BOS members' suggestions were accepted and incorporated in TYBSc Zoology (Semester V and VI for the year 2025-26) syllabus. All members approved the syllabus.

Agenda Item No.3: To seek the approval for TYBSc Zoology (Semester V and VI) Modality of assessment.

Discussion- Dr.Swati Deshmukh presented TYBSc Zoology, Semester V and VI Modality of assessment.

DSC (Discipline Specific Core) and DSE (Discipline Specific Elective)

Sr No	Evaluation type internals	Marks	Approved
1	Class Test [12 marks (4 form each unit) + 8 marks short notes (Any 2 out of 3)]	20	
2	Project / Assignment / Presentation	10	
	Total	30	

DSC (Discipline Specific Core) and DSE (Discipline Specific Elective)

Marks: 45 Duration: 1 hour and 30 minutes

Question	Options	Marks	Question based on unit	Approved
1	A) (OR) A (i and ii) and B)	8 OR 8(4+4)+7= 15	1	
2	A) (OR) A (i and ii) and B)	8 OR 8(4+4)+7= 15	2	
3	A) (OR) A (i and ii) and B)	8 OR 8(4+4)+7= 15	3	
	Total	45		

DSC (Discipline Specific Core) and DSE (Discipline Specific Elective)

Practical examination (Semester End): Total 25 marks

Particulars	Marks	Approved
Major Experiment and/or Minor Experiment, Identification, Journal and <i>Viva voce</i>	25	
Total	25	

Modality for VSC

Particulars	Marks	Approved
Major Experiment and/or Minor Experiment, Identification and <i>Viva voce</i>	30	
Journal	05	
Lab Participation	05	
Lab work/ Field report/ Presentation	10	
Total	50	

Modality for Minor (Theory) Sem V and VI

Question	Options	Marks	Questions Based on	Approved
1	A) or A)	8	UNIT 1	
	B)	7		
2	Short notes (a and b)	(5+5)		
	TOTAL	25		

Modality for Minor (Practical)

Sem V and VI

Particulars	Marks

Major Experiment and/or Minor Experiment, Identification, Journal and Viva voce	25	Approved
Total	25	

All papers and practicals modalities were unanimously approved.

Agenda Item No.4: Any other matters with the Chair's permission.

Discussion-OJT certificate provider query raised by Dr. Ramesh. It was answered as by internship provider

Vote of thank by Ms. Anjali Mali and the meeting concluded at 12:25 pm.

Phusate
1/4/25

Dr. Vaishali Phusate
Associate Professor and Head,
Department of Zoology,
Ramnarain Ruia Autonomous College

Aslam

Principal
Ramnarain Ruia Autonomous College
Matunga, Mumbai-400 019.

