

MINUTES OF ZOOLOGY BOARD OF STUDIES (BOS) MEETING

HELD ON 27TH AUGUST 2019 AT 10.30 AM

1. The meeting was chaired by Dr. Roshan D'Souza, Head of Zoology and Chairperson of BoS. The Members present were Dr. Akbar Dalvi, Dr. Smita Krishnan, Dr. Aldon Fernandes and Ms. Nazia Choudhary. She also informed that Shri. Vinayak Dalvie, Dr. B.B. Nath and Shri. Peeyush Pahade have informed that they cannot attend as they have some important commitments and have given their consent to go ahead with this meeting. Therefore, as the quorum was complete, the meeting was formally then started.

2. The agenda for the meeting was as follows:

- i) Welcome note and introduction of BoS members
- ii) Opening remarks by the Head of the department (sharing of vision and objectives implicit in the syllabus).
- iii) FYBSc - Semester II syllabus discussion
- iv) FYBSc Question paper pattern - Theory and Practical examinations
- v) SYBSc - Semester IV syllabus discussion
- vi) SYBSc Question paper pattern- Theory and Practical examinations
- vii) Internal Assessment pattern
- ix) Names of paper setters and examiners for FY and SYBSc theory and practical examinations.
- x) Any other matter with the permission of the Chair.
- xi) Fixing of the next BoS meeting - tentative date.
- xii) Finalizing the minutes and approval of the same.

3. The minutes of the last meeting were discussed whereby Dr. Roshan D'Souza informed that COMBISTAT will be done during practicals and study of HPTLC will be done under DBT STAR. She also informed that as suggested "mounting" of parapodium for FYBSc has been changed to "study" of parapodium in Semester I, Practical I and in Semester II CITES and Red Data Book have been included as per the suggestion of BoS members in the last meeting. It was also informed that Bradford's test has been included as per the earlier suggestion.

4. Dr. Roshan D'Souza briefed about the overall syllabus pattern. Semester II syllabus discussion was then initiated.

5. Dr. (Capt.) Akbar Dalvi suggested that the terms 'Vulnerable' and 'Endangered' should be explained. Dr. Smita Krishnan suggested that CITES and Conservation practices should be taught. Ms. Sandhya Kadiru informed that this is already being taught in the syllabus.

6. Dr. Aldon Fernandes spoke about cloning of endangered species being carried out in the USA. The members also discussed about leopard migrations. Ms. Sandhya Kadiru said that the

students give a PPT presentation on endangered animals. Dr. Smita Krishnan said that maps could be used as teaching aids to teach biodiversity.

7. Dr.(Capt.) Akbar Dalvi said that living fossils should be included in practicals. Dr.(Capt.) Akbar Dalvi suggested that in the study of living fossils 2 to 3 examples should be taught, like *Ceolocanth*, *Limulus* etc.

8. It was pointed out that there was a spelling error in Ethology syllabus of Semester II – Unit III- Instrumental Learning was spelled wrongly as Instrument Learning. Dr. Smita Krishnan said that students could be given a passage describing animal behavior and asked to identify the behavior. Eg. Song learning in birds. Dr.(Capt.) Akbar Dalvi said that courtship behavior of birds could be taught in the above manner. Dr. Aldon Fernandes and Ms. Nazia Chaudhary suggested that behavior in pets could be studied that way agreed that it was interesting.

9. Ms. Nazia Chaudhary suggested that Breast Cancer should be included in Genetics. Dr.(Capt.) Akbar Dalvi suggested that syndromes could also be included. Dr. Aldon Fernandes and Ms. Nazia Chaudhary informed that genetic screening was compulsory after the age of 35, so that could also be mentioned while teaching the genetics unit.

10. Dr. Roshan D'Souza explained the unit of Nutrition and Public Health. She said that this unit is similar to the University of Mumbai syllabus. She also said that there was scope for research based learning in this unit. Dr. (Capt.) Akbar Dalvi said that research could be done by students such as calculating the calories consumed and dietary habits. Dr. Aldon Fernandes suggested that dietary habits of different groups, dietary restrictions and cultural differences in dietary habits could also be studied. They also suggested that stress related disorders like allergies, psoriasis, dermatitis can also be included. Dr. (Capt.) Akbar Dalvi said that students could be asked to identify diseases based on the symptoms provided. Dr. Aldon Fernandes said that students should be taught about the different types of diabetes, nosocomial infections, viral infections, antibiotic resistance and damage done due to misuse of antibiotics.

12. Dr.Roshan D'Souza explained the scheme of examinations. Dr. (Capt.) Akbar Dalvi suggested that it could be 60:40 pattern. Dr. Roshan D'Souza informed that the exam scheme was decided by the academic council.

13. Dr. Aldon Fernandes said that the students should be made to use antiplagiarism software to check their projects. Ms. Sandhya Kadiru asked for details about the software. Dr. Aldon Fernandes replied that VIPER or TURN IT IN can be used. Dr. Smita Krishnan said that students could write an out of syllabus assignment and check it on VIPER.

14. Dr. Aldon Fernandes said students should write review articles as a group effort and present it. Ms. Sandhya Kadiru explained that students present a PPT based on a research paper of their choice.

15. The scheme of examinations was then discussed with respect to the paper pattern and it was informed that the scheme was as per decided by the academic council and was uniform across all the subjects. Dr. Smita Krishnan asked about the time period for 50 marks practical exam. She was informed that it was of two and a half hour duration. She also suggested that crosswords can be given as questions for internal examinations.

16. Dr. Roshan D'Souza explained the Sem IV syllabus. She informed that the suggestion given in the last meeting have been incorporated in the syllabus such as Unit of Research Methodology has been shifted to the Sem III, Peer reviewed journals and UGC approved journals are mentioned, biomagnification has been incorporated, Enzymes have been included in Paper 2,

17. Dr. Aldon Fernandes said that students should be taught about biosafety in animal ethics as well as about CPCSEA, IAEC, AWB and IBSC.

18. Ms. Nazia Chaudhary He also said that quantitative estimation of DNA and RNA should be included in the practicals.

19. Dr. Aldon Fernandes said that disposal of E-waste, use of biodiesels and its advantages, economics of abattoir waste, certain worms which are capable of eating plastic can also be mentioned in Unit 3 of Paper 3.

20. Dr. Aldon Fernandes said that students that the importance of spawning season in Maharashtra should be taught to the students and if Red snapper could be added to the list of fishes. Dr. (Capt.) Akbar Dalvi said that there were too many crafts and gears from the west coast of India. There should be balance between the west coast and east coast. He also said that sardine fishery was missing from the list of fishes. He further suggested that recreational fishery and tidal patterns could also be mentioned.

21. Ms. Nazia Chaudhary and Dr. Smita Krishnan suggested that different types of milk – skim milk, toned milk etc. and adulteration of milk, adulteration of honey, hormones like oxytocin in milk

22. Dr.(Capt.) Akbar Dalvi pointed out that instead of Cobra, it should be King Cobra in the practical I syllabus. Dr. Aldon Fernandes said there are different types of vipers – Russel's, Hump-nosed, Saw scaled and pit viper and sea snakes could also be discussed.

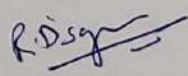
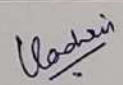
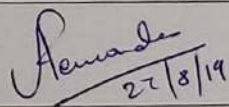
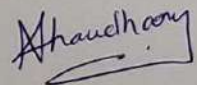
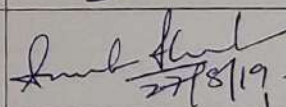
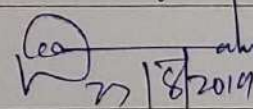
23. Dr. Smita Krishnan said that we can get dead honeybees from apiculture units at Mahableshwar in order to do various mountings.

24. Dr. R. D'Souza and Ms. Sandhya Kadiru were approved by the BoS members as paper setters and examiners for theory as well as practical examination of Semester I and III.

25. The meeting ended with Dr. Roshan D'Souza thanking all the members present for the meeting and for their valuable inputs.

RESOLUTION

“The Subject Board in ZOOLOGY for Sophia College (Autonomous), hereby approve the syllabus for the course of Zoology of the FYBSc and SYBSc for the Academic Year 2019-20 at the meeting held on 27th August, 2019”.

Name	Designation	Signature
Dr. Roshan D'Souza	Chairperson, Board of Studies	
Shri. Vinayak V. Dalvie	The Vice-Chancellor's Nominee	—
Ms. Sandhya Kadiru	Senior teacher	
Prof. Bimalendu B. Nath	Subject Expert (outside the Parent University)	—
Dr. Peeyush Pahade	Subject Expert (outside the Parent University)	—
Dr. Aldon Fernandes	Representative from Industry	 27/8/19
Ms. Nazia Chaudhary	Post-graduate alumna	
Dr. Smita Krishnan	Other member of faculty	 27/8/19
Capt.(Dr.) Akbar Dalvi	Other member of faculty	 27/8/2019

Attendance Record of meeting of the members of the Zoology Board of Studies held on Saturday 27th August, 2019 at 10.00 am in Suman Tulsiani Research Centre Conference Room

Name	Designation	Signature
Dr. Roshan D'Souza	Chairperson, Board of Studies	<u>R. D'Souza</u>
Shri. Vinayak V. Dalvie	The Vice-Chancellor's Nominee	—
Ms. Sandhya Kadiru	Senior teacher	<u>Sandhya</u>
Prof. Bimalendu B. Nath	Subject Expert (outside the Parent University)	—
Dr. Peeyush Pahade	Subject Expert (outside the Parent University)	—
Dr. Aldon Fernandes	Representative from Industry	<u>A Fernandes</u> 27/8/19
Ms. Nazia Chaudhary	Post-graduate alumna	<u>N Chaudhary</u>
Dr. Smita Krishnan	Other member of faculty	<u>Smita Krishnan</u> 27/8/19
Capt.(Dr.) Akbar Dalvi	Other member of faculty	<u>Akbar Dalvi</u> 27/8/2019