

BOARD OF STUDIES MEETING IN THE SUBJECT OF ZOOLOGY, FACULTY OF SCIENCE.

Meeting of the members of BOS in Zoology will be held on 30th June, 2018 at 11.00 am in the Biology Department of R J College of Arts, Science and Commerce.

Agenda:

1. Revision of syllabus of F.Y & S.Y.B.Sc in the subject of Zoology to be implemented for the academic year 2018-19.
2. Exam paper pattern for theory and practicals for F.Y and S.Y.B.Sc in Zoology.
3. Syllabus for Applied Component-Environmental Science and Pollution to be followed as per UOM syllabus for both theory and practical.
4. Short term courses in ~~Vermi~~composting, Aquarium maintenance, Shell identification, Plankton analysis, Field workshop on Ornithology, Prawn identification and pickle making, Instrumentation, Microtechnique, Staining and preservation techniques, Workshop on Biostatistics.



Head of Department
&
Chairman BOS

examples to be incorporated in the topic of Biodiversity (Gulf of Mannar).

A meeting of BOS in Zoology is convened on 30th June 2018 at 11:30am in Biology department (Lab no-03). The following members attended the meeting:

1) DR. B. B. Sharma (V.C. ^{Museum} + Principal Vaje Katta College)
 30.6.2018

- 1) DR (MR) P. N. Sardesai
 Sardesai
 30/6/18.
- 2) MRS. S. S. Gupte
 S. S. Gupte
 30.6.18
- 3) DR (MS) Bindu Achary
 Bindu Achary
 30/6/18.
- 4) DR (MRS) J. A. Bhagwat
 J. A. Bhagwat
 30/6/18
- 5) DR (MRS) G. M. Joshi
 G. M. Joshi
 30/6/18.
- 6) MR Deepak Poojariy
 Deepak Poojariy
 30/6/18
- 7) MRS Sushma Singh
 Sushma Singh
 30/06/18
- 8) MR. Bhagirath Mishra
 Bhagirath Mishra

2) DR (Vinay Deshmukh.
 (Fisheries Advisor for INPT & Marine Advisor for BNHS)
 30.6.2018

3) DR Sashi Menon
 Sashi Menon
 30/6/2018

4) DR (MRS) Deepthi Sahastrabudhe
 (Assistant Manager - Cipla)
 Deepthi Sahastrabudhe

5) MRS. Anuja Singh.
 (Business Development Manager
 Pisamal Health Care).
 Anuja Singh
 30/06/18

6) DR (MRS) NAMITA Mukherjee
 Assistant Prof. D.Y. Patil
 Namita Mukherjee

The meeting of BOS is mainly convened to discuss the syllabus of F.Y. B.Sc & S.Y. B.Sc (Sem I, II, III & IV) under autonomy.

The following points were discussed & suggestions welcomed for incorporation.

- DR Vinay Deshmukh suggested that there must be a combination of subjects of one unit of Mathematics. It was made to understand that Biostatistics is introduced instead. MRS Anuja Singh mentioned about the significance of Statistics in industry.
- F.Y. B.Sc - I — DR V. Deshmukh emphasised on the need for examples to be incorporated in the topic of Biodiversity (Gulf of Mannar).

Biodiversity hotspots along with discussion of plants & animals required.

Paper II

- DR Deepthi Sahasrabudhe emphasised on the introduction of concept of buffer at F.Y. level so as to enable the students to partake in projects like Kishore Vidyanik project etc.
- She suggested that the concept of nucleic acids to be dealt in first term thus enabling easy coverage of contents of Biotechnology.

Unit II

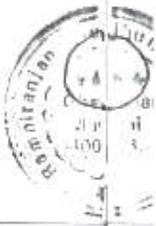
- Mrs Sankha Gupte put forth the problems of DNA finger printing in practicals. It needs to be incorporated in practicals.
- DR Deepthi S. suggested that plant Biotechnology be mentioned in Biotechnology. She was informed that the concept is mentioned in agricultural Biotechnology.
- The panel appreciated the introduction of basic measurements like molarity, molality, normality, ppm, ppt at F.Y. B.Sc. level.
- Panel suggested the introduction of scientific documentation in S.Y. B.Sc practical session.
- Dr. Vinay Deshmukh suggested the marking scheme for attendance in lecture/practical sessions like that implemented abroad.
- DR Vinay Deshmukh mentioned about the framing of questions so as to extract the required answers from the students.
- DR. Vinay Deshmukh also mentioned suggested the use of Refractometer (Salinometer - of ERMA company) instead of Salinometer for the determination of Salinity where an expensive chemical like AgNO_3 need not be used. He also suggested that, the practical on pH detection to be incorporated along with theory. He emphasised that Argentometry be a demonstration experiment.



- Also suggestion of soil pH analysis practical to be shifted to sem II was made by Dr (Mrs) Namita Mukherjee.
- Dr Vinay Deshmukh was also of the opinion of using organisms for practical purpose to evaluate Biostatistics problems & to have clarity of concepts.
- Dr Vinay Deshmukh pointed the omission of population curves in theory syllabus (Sem II, paper I, Unit II) which was noted & added to the syllabus.
- The panel also suggested reshuffling of topics within the two semesters like nucleic acid in sem I & proteins as biomolecules in sem II. Thus practicals based on the above mentioned topics should be rearranged according to the semesters.
- Panel members also recommended the addition of the concept of radiation & radioactive substances while dealing with the topic of Radiation risk/Health hazards of mobiles.
- Mrs Anju Singh emphasized of on the incorporation of T.B. in Unit 2.3 — WHO program.
- Panel suggested a guest lecture on biohazards, safety levels etc by experts.
- Dr. Deepthi Sahastribudhe pointed a change in terminology from SOP to IOP. Dr. (Mrs) Namita Mukherjee also agreed.
- Dr. Vinay Deshmukh emphasised the deletion of skates from pisces group which was noted.
- The panel was of the opinion that study of burner, autoclave etc be shifted to sem I, but the teacher explained that as instrumentation is taught in sem II the topic is justified for sem II, which the panel agreed on.

The presentation of F.Y.B.Sc syllabus (Theory & practicals of Sem I & II) was done by Mrs. Sanika Gupta.

The presentation of S.Y. B.Sc syllabus was done by MR. Deepak Bojari et.



- Paper I no suggestions for incorporation.
- The panel suggested the need of to add the structure of nucleus (Eukaryotic) to be mentioned along with that of mitochondria & chloroplast in Paper II - Unit III.
- Dr Vinay Deshmukh recommended that 'overview' word should be replaced by 'geographical & morphological features of coastline' in fisheries unit which is incorporated.
- In fish fisheries portion Dr. Deshmukh suggested to replace shark fishery to Pomfret fishery for Mumbai region. He also suggested to raise the issue of shark conservation.
- So as to encourage the conservation of specimens Mrs. Anju Singh suggested that two dissections be done in same specimen & was informed that same was ~~not~~ being done in the past. The need for simulation & on-screen study was raised.
- Practical curriculum includes culturing of drosophila ^{in lab} & their use in practicals which was appreciated by the panel.
- Dr. Deepti Sabasthrabudhe raised a query on 'codon preferences' in the formation of amino acids. It was accepted that the concept will be introduced at preliminary level. This was seconded by Dr (Mrs) Namita Mukherjee.
- Dr. Vinay Deshmukh emphasised on the use of 'Contemporary crafts & gears & suggested to convey to students about primitive methods of fishery & the new techniques like GPS, mechanised crafts & gears & app available to fishermen for fishish that is introduced by CMERI. He also recommended that this can be given in the form of projects to students using MKrushi App.

- Dr (Mrs) Namita Mukherjee & Mrs. Anju Singh pointed on the need to introduce Plasmodium as malarial parasite. The point was noted & changes/addition made accordingly.
- Panel also suggested the introduction of 'mitotic index' in the study of Mitosis.
- Mr. Poojary updated the panel on the introduction of 'Kadaknath' poultry breed, suggested by students during their project study.
- Panel also emphasised on more field study to encourage students pursue Zoology.

The BOS members were welcomed & introduced by DR (Mrs) P. N. Sardesai while they were felicitated by Mrs. S. S. Gupte, DR (Ms) Bindu Achary & DR (Mrs) J. A. Bhagwat.

The deliberation ended at 3.10 pm on happy note & a promise of incorporation of all the suggestions to be done in the syllabi.

Sardesai
30/6/18

Head of Dept. of Zoology

Chairman BOS

Board of studies in Zoology comprises of

- 1) DR B. B. Sharma (V.C nominee, Principal Vaze Kelkar College)
- 2) DR Sashi Kumar Menon (
- 3) DR B. B. Nath (Prof & former Head of Zoology, Co-ordinator UGC centre for Advance Studies in Zoology)
- 4) DR Vinay Deshmukh (Invitee, Fisheries Advisor for JNPT & Marine Advisor for BNHS)
- 5) DR (Mrs) Deepthi Sahastrabudde (Assistant Manager Cipla)
- 6) DR (Mrs) Namita Mukherjee (Assistant Prof., School of Biotech & Bioinformatics, D.Y. Patil Univ)
- 7) Mrs. Anju Singh (Alumnus, Business Development Manager Piramal Health Care)