

MINUTES OF THE BOARD OF STUDIES MEETING OF  
THE DEPT OF BOTANY HELD ON 31.1.2015 AT 9.30 AM

The meeting of the Board of Studies meeting was held on 31.1.2015. The meeting began with a Silent Prayer. Dr. Kham Joseph, Chairman and Head of the Department of Botany addressed the gathering with a welcome. The following matters were discussed during the meeting and suggestions recommended.

1. Anatomy and Embryology to be included in the 1<sup>st</sup> Semester.
2. Introduction to the World of Plant Diversity to be labelled as Plant Diversity - Introduction only.
3. Inclusion of the Visit to Algal Research Station as part of the Algal practicals.
4. In Core Course 1 module 3 to be renamed as applied Microbiology.
5. Centralise all the module titles and to be followed in all papers.
6. The classification based on Fritsch (Algal classification) should be updated. Brief outline of algal classification is to be included. Recent classification Lee, Round 1990.
7. Inclusion of Cauterpa for Algal practicals and in Theory.
8. Fouling algae to be included in harmful effects of Algae.
9. Module 3, Applied Microbiology to be reduced to 2 hours.
10. The inclusion of local authors in the reference section to be avoided. Place of Publications should be a must.
11. References to be checked and proof reading has to be done.
12. In Core Course 2, module 2 to be renamed as Applied mycology.
13. Preparation of all the fungi mentioned in the syllabus should be included in the Practicals.
14. Core Course 3 title to be renamed Anatomy and Embryology of Angiosperms.
15. Embryology → Introduction to Embryology book by Bhojwani to be included.

16. References to be updated in Core Course 3.
17. In Core Course 4, module 1 - the inclusion of general characteristics, diversity, distribution and classification of Bryophytes.
18. Inclusion of Bryology and Plantology in the Semester 2 is recommended.
19. Porella to be included in the form of Bryophytes. In module 3, diversity, distribution, classification and evolution of Plantophytes are to be included.
20. References in Core Course 4 to be updated.
21. In Core Course 5, the contents in module 1 to be edited. In module 3 theories of fossilization <sup>and fossils</sup> to be included.
22. In the Practical exams the contribution of evolution and to be eliminated.
23. Bryophytes, Plantophytes and Paleobotany in Core Course.
24. Gymnosperms, Evolution and Embryology in Core Course.
25. In Core Course 6, the word structure should replace Architecture of Cells. In module 2 polyploid chromosomes, Lamptonish and B chromosomes.  
 Numerical and structural aberrations to be included.  
 Dopran model - nucleosome, chemical organization of nucleosomes to be deleted.
26. Meiosis practicals will be demonstrator only.
27. In Core Course 7, the inclusion of Turmeric, Curcumin, Coriander in the practicals of Economic Botany, Adhatoda, Ocimum sanctum as medicinal plants.  
 Plants included under food, shelter and medicine under Ethnobotany to be revised.
28. In Core Course 8, module 1 "how to write a dissertation" to be a subtitle.  
 In module 2, Table top and ultracentrifuge, GC, and HPLC to be removed.  
 In module 3 Theoretical probability distributions to be deleted.

29. In Open Course editing of even portions in the modules, report of the visit to a nursery to be part of the assignment.
30. In Core Course 9, module 1 to be edited. Water cycle to be included.  
The title of module 2 to be renamed Population and Community ecology; population characteristics to be made. Very specific. Identification of Pollinifer to respective pollination types mentioned in the Practical syllabus to be eliminated.  
Anthropogenic effect - Identification by Photo to be included.
31. In Core Course 7. Title of Angiosperm morphology is to be included, module 1 is edited - morphology - leaf and flower.  
Title for module 2 should be Systematic Botany.
32. In Core Course 10. practicals - preparation of Bardeane module to be eliminated.
33. Core Course 11 module 1 - inclusion of factors affecting transpiration.  
Practical 5 and 6 in Biochemistry Practicals is deleted.
34. Core Course 12 - module 1 methods and application of tissue to be taught in brief only.  
module 3 to be edited. In Bioinformatics NCBI to be included. module 5 in bioinformatics to be edited.  
Biotechnology practicals Southern blotting is eliminated.
35. In CBC *Phyllanthus amarus* to be included instead of *Phyllanthus neruri*.
36. In Complementary Course 2, module 2, respiration to be included.

The following members were present for the meeting

1. Dr. Elean Joseph Meany
2. Dr. Santhosh Nampy hip
3. Dr. C.M. Joy 31/1/15
4. Dr. Meera Thomas Trimpan Meera
5. Dr. Lizzy Mathew Lizzy  
31-1-15
6. Dr. Alphonsa Vyage Joseph Alphonsa
7. Dr. Rosilly Mayant Mendy Rosilly
8. Dr. Liza Jacob Liza
9. Dr. Sheila. D. Dr Sheela

6/3/2017 MINUTES OF THE BOARD OF STUDIES MEETING OF THE  
DEPARTMENT OF BOTANY HELD ON 06-02-2018 AT 10 AM.

A meeting of the UG Board of Studies was held on 6.2.2018 at 10 am in the department of Botany. The meeting commenced with a silent Prayer. The Chairperson Dr. Lizzy Mathew welcomed all the external and internal members of the Board of Studies. The need of the BOS meeting on the date was explained, <sup>and</sup> the eight criteria for the discussion were read out. The meeting proceeded to the following matters of the agenda.

1. Approval of the minutes of the previous BOS meeting. The minutes of the previous BOS meeting were presented and approved.
2. Approval of the restructured UG syllabus to be effective from 2018 admission onwards.

In Sem I Core Course - the topic 'Evolutionary History of Biological Diversity - Fossil Record; Geological time scale - major events in each era under Module 3 to be included in Paleobotany of Core Course of Sem IV.

Preparation of Normal, Molal and Molar solutions incorporated into Module V.

RLS, TLS to be included in Gymnosperms in Sem IV.

In Sem IV Core Course: Pteridology and Gymnosperms; ecological aspects also to be included along with Economic importance of the above mentioned groups.

Paleobotany to include Birbal Sahni Institute and his contributions.

Practicals to include RLs and TLS of coniferous wood (Pinus)

In Sem V Core Courses the following modifications were suggested.

Core Course I in Embryology, Structure and Development of Dicot and Monocot embryos to be included.

Anatomy Practical to specify the taxa for non-living inclusions - potato (starch) and Castor (aleurone grains)

Root specimen papaya root specified for secondary growth.

In Paper VI - Biophysics - Centrifuge to include Clinical, Cold centrifuge in detail and Ultra centrifuge (brief account only).

Haemocytometer to be excluded and micrometry to be included in theory.

For practical include - measurement of pollen diameter and width of uniseriate algal filament.

In Statistics  $\chi^2$  test also to be included.

In Paper VII Plant Physiology - Quantitative estimation of protein - Lowry's method to be included.

In Sem VI - Paper IX - Genetics, Plant Breeding and Horticulture - to include three point test cross (Problems not needed).

Paper X : Cell and Molecular Biology - The Ultrastructure of Cell - to be discussed as membrane structures (ER, Ribosomes, Golgi

Complex, etc) and organelles (nucleus, mitochondria and chloroplast)

The topic on Transcription and Translation to be modified as Transcription and Translation in Prokaryotes. Post-transcriptional modifications in eukaryotes - hnRNA, Splicing and release of mRNA. In Paper XI Biotechnology and Bioinformatics - EMBEL - ENA to be included in Theory also.

Elective Paper - Phytochemistry and Pharmacognosy - Definition of Ayurveda plants and Medicinal plants to be included in the introduction. Plants used in Ayurvedic formulations to be specified. Exclude herbal plants from Ayurveda plants. Classification of crude drugs to be included.

In Sem I, II, III & IV Complementary Courses no changes have been incorporated.

All practical examinations as per university rules are to be conducted at the end of even semester.

### 3. Suggestions towards innovative methodologies of teaching and evaluation.

Inclusion of more field trips. Visit to Research Stations and Institutions with good laboratory and library facilities. Regular evaluation to be carried out and feed back to be collected.

4. Approval of Panel of Examiners for UG & PG Courses. The BOS approved the panel of examiners of UG, PG, Even Semesters & M.Phil Examinations.

5. Discussion on Student Projects, Research & Retention activities of the department.

The BOS strongly highlighted the need for Curricular evaluation by outgoing students, Student evaluation by teachers & teacher evaluation by students. Investigatory projects at UG level can be individual or group work comprising 3 students in a group.

#### 6. Approval of Syllabus of the Short-term Certificate Course in Botany.

The syllabus for Certificate Course in "Plant Resource Development and Management" was approved by BOS. Topics like Bio-waste Management, Plastic recycling and Rainwater harvesting in collaboration with Plan@Earth. MoU with VFCK can be sought for.

7. Discussion of recommendation for text books and Journals for reference, was effective.

8. The proposed date of the next BOS meeting was decided to be scheduled for the next academic year preferably in the first semester.

Read and approved.

1. Dr. Lizzy Mathew



2. Dr. Benny Jacob



3. Dr. Joseph Job



4. Dr. Soral Samuel





5. Dr. Thara K. Suresh

~~Thara~~

6. Dr. Elsam Joseph

~~Elsam~~

7. Dr. Alphonsa Vijaya Joseph

~~Vijaya~~

8. Dr. Romilly Margaret Mendez

~~Romilly~~

9. Dr. Liza Jacob

~~Liza~~

10. Dr. Sheela D.

~~Sheela~~

11. Smt. J. K. Nishitha

~~Nishitha~~

12. Smt. D. Delilah

~~Delilah~~

13. Ms. Pooey P. Prabasia

~~Pooey~~