



## **DEPARTMENT OF BOTANY**

**Holy Cross College (Autonomous), Nagercoil**

*Nationally Accredited with A+ by NAAC (CGPA 3.35 – IV Cycle), Nagercoil – 629004,*

*Kanyakumari District, Tamil Nadu, India.*

## **MINUTES OF THE BOTANY BOARD OF STUDIES MEETING**

**2020 – 2021**



**Department of Botany**  
**Holy Cross College (Autonomous), Nagercoil**



*Nationally Re-Accredited with A+ by NAAC (CGPA 3.35-IV Cycle), Nagercoil-629004,  
Kanyakumari District, Tamil Nadu, India.*

**Minutes of the Botany Board of Studies meeting held on 01.02.2021 at 9.30 AM  
via Google Meet –<https://meet.google.com/chy-vhma-wit>**

**Ref. No. BOT/BOS/ 2020-2021/14**

**Members:**

Dr. C.Jespin Ida	- Chairperson& Head of the Department
Dr.S. Beschi Antony Rayan	- University Nominee
Dr.N. Vasudevan	- Subject Expert
Dr. V. Anand Gideon	- Subject Expert
Mr.K.P. Srinivasakumar	-Industrialist
Ms.M.M. Shyra	- Alumna
Dr. Sr. Leema Rose	- Member
Dr. A. Anami Augustus Arul	- Member
Dr. Bojaxa A. Rosy	- Member
Dr. A. R. Florence	- Member
Dr. J. Albino Wins	- Member
Dr. N. Benit	- Member
Dr. J. Celin Pappa Rani	- Member

**Agenda**

1. Prayer
2. Welcome by the Chairperson
3. Reading of the minutes of the previous meeting
4. Restructuring/Revision of curriculum for UG
5. UG-Syllabus for Semester III and IV
6. Restructuring / Revision of Curriculum of PG
7. PG Syllabus for Semester III and IV
8. Classification of New Courses
9. Classification of courses as Employability / Entrepreneurship / Skill Development
10. Classification of courses as Local / National / Regional / Global
11. Classification of courses as Crosscutting Issues - Gender Equity / Environment and Sustainability / Human Values / Professional Ethics
12. Conduct of UG and PG Practical Examination
13. Recommendation of books and journals for UG and PG
14. Conduct of seminars / workshops in collaborations with Government Agents / Universities / NGOs.
15. Suggestion for innovative teaching and evaluation techniques for UG and PG
16. New measures to be undertaken by the department
17. Feedback and action taken
18. Next Meeting of BoS
19. Any other.

The Board of Studies meeting commenced with a prayer by Dr. Sr. Leema Rose. The members of the board, the Chairperson, University Nominee, Subject experts, Industrialist, Alumna and faculty of the Department, were present for the meeting.

**Chairperson's Address**

The Chair Person and Head of the Department, Dr. C. Jespin Ida, welcomed the members and introduced them while briefing on the agenda for the conduct of this meeting. The following items in the Agenda were discussed by the members of the Board.

**Item 01/BoS21.01/03: Approval of the minutes of the meeting held on 20.1.2020**

Dr.C.Jespin Ida read the minutes of the previous meeting which was approved by the members after incorporating the modifications/suggestions given by the Academic council.

**Item 02/BoS21.01/04:Restructuring/Revision of curriculum for UG**

The overall structure of the curriculum framed in 2021 was accepted by the board with the following modifications.

- i. The Core and Elective courses were revised and modified for III and IV semesters.
- ii. The hours and credits were changed for Non-Major Elective Course because of the introduction of compulsory Professional English Course for I-IV Semesters.
- iii. Major Practicals were to be conducted during even semesters.
- iv. In Semester V, instead of the Optional paper, project was introduced and the already existing SBC project in Semester V was changed into theory paper.
- v. Reduction in the hours and credits in the Non-Major Elective Courses.

**Item 03/BoS21.01/05: Approval of UG Syllabus for Semester III and IV**

The BoS members approved the Courses in Semester III and Semester IV for UG programme.

i.The following courses during the III and IV semesters are revised/ modified based on the feedback from the students & Alumni.

Sl. No.	Semester	Paper Code	Paper Title	Changes	
				Removed (if any)	Addition (if any)
1.	III	BC2031	Major Core III – Archegoniate	-	Modification was carried out in Unit V
2.	III	BC2032	Elective I (a) – Herbal Botany	-	New paper
3.	III	BC2033	Elective I (b) - Nursery and Gardening	Unit II	Unit II was changed
4.	III	BC2034	Elective I (c) – Agricultural Botany	Unit IV	Unit IV – minor changes were made
5.	III	BA2031	Allied II - Plant Diversity –		Plant Diversity –I

			I(Algae, Fungi, Bryophyta and Pteridophyta)		(New Paper)
6.	IV	BC2041	Core IV – Plant Ecology and Phytogeography	Unit I & IV	Minor changes were made
7.	IV	BC2042	Elective II (a) Biological Resources	Unit I & III	minor changes were made
8.	IV	BC2043	Elective II (b) Food Science	Unit II, III& V	Unit – II, III & V – minor changes were made
9.	IV	BC2044	Elective II (c) Biodiversity and Human Welfare	Unit I& IV	Modifications were made
10.	IV	BA2041	Allied II - Plant Diversity – II and Plant Physiology	-	Plant Diversity – II and Plant Physiology (New Paper)
11.	IV	BC20P2	Major Practical Paper – II Archegoniate and Plant Ecology and Phytogeography	-	Modified according to the changes in syllabus
12.	IV	BA20P2	Allied II – Practical: Plant Diversity – I & II and Plant Physiology		Allied II – Practical: Plant Diversity – I & II and Plant Physiology (New combination of Courses)

## Value Added Courses

Semester	Subject code	Name of the Course	Total hours	Credit
I/II	VAB201	Mushroom Culture Technology	30	1
III/ IV	VAB202	Food Preservation Technology	30	1
I/II	VAB203	In Vitro Propagation	30	1
III/ IV	VAB204	Organic Farming	30	1
V/VI	VAB205	Microbial Technology	30	1
V/VI	VAB206	Flower, Foliage and Dry Stick Arrangement	30	1

ii.BC2031- Major Core III Archegoniate – Unit V:Types and methods of fossilization was added.

iii.BC2032 – Elective I (a) Herbal Botany –a.Unit II: Introduction to Ayurvedic formulation with methods of preparation of Churna, Arista, Taila and Leyham were added and deletion of the topics Decoction, Infusion and extract for skin and hair care were made.

b. UnitIII: Study on the active principles and utilization of *Clerodendrumplomidis* was replaced with *Curcuma longa*.

Study of drug yielding plant *Rauwolfia serpentina* was replaced with *Ocimum sanctum*.

c. Unit V:Study on the cultivation of medicinal plants *Strychnosnux-vomica* and *Acoruscalamus* were replaced with *Trigonella foenum-graecum* and *Zingiber officinale*

iv. BC2033 – Elective I (b) -Nursery and Gardening – Unit II which dealt with seed and its production was totally replaced with ornamental horticulture

v.BC2034 -Elective I I– Agricultural Botany Unit IV: The topic ‘Agriculture machinery’ was introduced.

vi.BA2031 – Allied II: The existing course‘Taxonomy of Angiosperms and Plant Physiology’has been changed to ‘Plant Diversity–I’.

vii.BC2041 Major Core IV – Plant Ecology and Phytogeography –except Unit -V all the other units were rearranged and in Unit – I the topic ‘Mutualism’ and in unit IV the topic ‘components of ecosystem’ were added.

viii.BC2042 Elective II (a) Biological Resources- Unit I: The topic ‘brief introduction of biological resources and types’ were added.Unit III: The topic ‘forest management and conservation’, ‘regeneration and sustainable utilization of forest resources’ were added.

ix. BC2043 Elective II (b) Food Science Unit III: the topic 'fermented food products' was shifted to Unit II and Unit III was completely revised. Unit-V: the topics 'Ethylalcohol' and 'Vinegar' were removed.

x. BC2044 Elective II I Biodiversity and Human Welfare – Unit I: 'the topic Biodiversity: scope and types' and in Unit- IV the topics 'CITES, CBD and Rio de Janeiro, 2012' were added.

ix. BA2041 Allied II Cell Biology and Plant Anatomy has been changed to Plant Diversity – II and Plant Physiology

#### Item 04/BoS21.01/06: Restructuring/Revision of curriculum for PG

The overall structure of the curriculum framed in 2021 was accepted by the board with the following modifications.

- i. The Core and Elective courses were revised and modified for III and IV semesters.
- ii. The hours and credits were changed for elective papers and project.
- iii. Major Core Practical were to be conducted during even semesters.

#### Item 05/BoS21.01/07: Approval of PG Syllabus for Semester III and IV

##### M.Sc. Botany

The BoS members approved the Papers in Sem III and Sem IV for PG programme.

- i. The following courses during the III and IV semesters are revised / modified based on the feedback from the students & Alumni.

Sl. No	Semester	Paper Code	Paper Title	Changes	
				Removed (if any)	Addition (if any)
1.	III	PB2031	Core VII – Taxonomy of Angiosperms	Unit – II (few contents removed)	Unit – II (few contents added)
2.	III	PB2032	Core VIII – Genetics and Molecular Biology	Unit – II, III, IV, and V, (few contents	Unit – I, III, IV and V, (few contents added)

				removed)	
3.	III	PB2033	Elective III (a) – Horticulture	Elective III (a) – Horticulture and Plant Breeding (Title and contents removed)	Elective III (a) – Horticulture (New title and modifications were made in all the five units)
4.	IV	PB2041	Core IX – Plant Physiology	Core IX – Plant Physiology and Metabolism (Title only)	Core IX – Plant Physiology (New title added)
5.	IV	PB2042	Core X – Plant Ecology and Phytogeography	Core X – Environment and Conservation Biology (Title only)	Core X – Plant Ecology and Phytogeography (New title added)
6.	IV	PB2043	Core XI – Biotechnology and Bioinformatics	Core XI – Applied Biotechnology (Title and Unit V removed)	Core XI – Biotechnology and Bioinformatics (New title and Unit V newly added)
7.	IV	PB2044	Elective IV (a) – Phytochemistry and Pharmacognosy	Elective IV (a) – Industrial Microbiology (Paper removed)	Elective IV (a) – Phytochemistry and Pharmacognosy (New paper added)
8.	IV	PB2045	Elective IV (b) – Entrepreneurial Botany	Elective IV (a) – Biostatistics and Bioinformatics (Paper removed)	Elective IV (b) – Entrepreneurial Botany (New paper added)
9.	IV	PB20P3	Practical III - Taxonomy of Angiosperms &	Practical III - Taxonomy of	Practical III - Taxonomy of



			Genetics and Molecular Biology.	Angiosperms and Economic Botany, Genetics and Molecular Biology	Angiosperms & Genetics and Molecular Biology (New combination of Papers).
10.	IV	PB20P4	Practical IV – Plant Physiology, Plant Ecology and Phyto geography and Biotechnology and Bioinformatics	Practical IV - Plant Physiology and Metabolism, Environment and Conservation Biology and Applied Biotechnology	Practical IV – Plant Physiology, Plant Ecology and Phytogeography and Biotechnology and Bioinformatics (New combination of Papers)

ii. In the 'Core paper VII – Taxonomy of Angiosperms,' rearrangement of contents in Unit – I and APG classification was added. In Unit II some additions (Taxonomic Evidences – Chemotaxonomy, Phytotaxonomy and Cytotaxonomy) and few contents were removed (Cladistics - phylogenetic approach of classification, species concept) . In Unit – II, the molecular markers as taxonomic tools – RAPD, RFLP, AFLP and ISSR were replaced as molecular tools used in taxonomy. In Unit – III, objectives and importance of systematic botany was removed. In Unit III, IV and V, salient features are replaced as diagnostic features.

iii. In the 'Core paper VIII – Genetics and Molecular Biology,' some addition are made in Unit I (Linkage and crossing over, construction of chromosome map, and three point cross), some contents are replaced from Unit I to Unit II (Mutation – Types of mutation, molecular mechanism of mutation). In Unit – II few contents were deleted (dissociation and reassociation of kinetics of DNA);  $T_m$  value was added. In Unit – III, few contents were deleted (cloning vectors – plasmids, cosmids, phages, plasmids – characters of plasmids, types, copy number, PBR322, PUC9, M13, BAC, YAC, shuttle vectors, advantages of cloning vectors). Some additions are made (Super Vectors – Bacterial Artificial

Chromosomes, Yeast Artificial Chromosome). In Unit IV – some additions are made (posttranslational events, northern blotting, southern blotting, western blotting, FISH). In Unit V – some additions were made (Gene regulations in Prokaryotes; gene regulation in Eukaryotes).

iv. The Title of the Elective paper ‘Elective III (a) - Horticulture and Plant Breeding ’is changed into ‘Elective III (a) – Horticulture.’ All the five unites were modified.

v. The Core paper ‘Core IX - Plant Physiology and Metabolism’ is changed into ‘Core IX - Plant Physiology.’

vi. The Core paper ‘Core X - Environment and Conservation Biology’ is changed into ‘Plant Ecology and Phytogeography.’ In Unit – I, applications of Ecology was deleted. In Unit – II, the title – gaseous cycle is removed.

vii. The Core paper ‘Core XI – Applied Biotechnology’ is changed into ‘Core XI – Biotechnology and Bioinformatics’ and Unit V was changed. In Unit – I, the title was given as rDNA technology. In Unit – IV, the title was given as Pharmaceutical Biotechnology. In Unit – V, the title is given as Bioinformatics and new contents are added (Bioinformatics: The internet, World Wide Web, search engines Primary nucleotide sequence databases - Genbank, DDBJ; Primary protein sequence databases - NCBI, PIR, EMBL; Sequence Analysis - Pair-wise alignment; BLAST & FASTA types; Multiple sequence alignment; CADD).

viii. The Elective paper ‘Elective IV (a) – Industrial Microbiology’ is removed and replaced with ‘Elective IV (a) – Phytochemistry and Pharmacognosy.’ All the five units were newly added.

ix. The Elective paper ‘Elective IV (b) – Biostatistics and Bioinformatics’ is removed and replaced with ‘Elective IV (b) – Entrepreneurial Botany.’ All the five units were newly added.

x. The Practical IV - Plant Physiology and Metabolism, Environment and Conservation Biology and Applied Biotechnology is changed into Practical IV – Plant Physiology, Plant Ecology and Phytogeography and Biotechnology and Bioinformatics.

## Item 06/ BoS 20.01/08: Classification of Courses as New Courses

## B.Sc., Botany

S. No	Course Code	Title of the Course	New Courses
1.	BC2031	Major Core – III Archegoniate	
2.	BC2032	Major – Elective I (a) Herbal Botany	✓
3.	BC2033	(b) Nursery and Gardening	✓
4.	BC2034	(c) Agricultural Botany	
5.	BA2031	Allied II – Theory: Plant Diversity -I (Algae, Fungi, Bryophyta and Pteridophyta)	✓
6.	BA20P2	Allied II – Practical: Plant Diversity – I (Algae, Fungi, Bryophyta and Pteridophyta)	✓
7.	BC2041	Major Core IV – Plant Ecology and Phytogeography	
8.	BC2042	Major – Elective II (a) Biological Resources	
9.	BC2043	(b) Food Science	✓
10.	BC2044	(c) Biodiversity and Human Welfare	
11.	BA2041	Allied II - Plant Diversity-II and Plant Physiology	✓
12.	BC20P2	Major Practical IV –Archegoniate & Plant Ecology and Phytogeography	
13.	BA20P2	Allied II – Practical: Plant Diversity – I & II and Plant Physiology	✓

## M.Sc., Botany

S. No	Course Code	Title of the Course	New Courses
1.	PB2031	Core VII- Taxonomy of Angiosperms	
2.	PB2032	Core VIII- Genetics and Molecular Biology	
3.	PB2033	Elective III-(a) Horticulture	✓
4.	PB2034	Elective III - (b) Forestry	
5.	PB20PR	Project	
6.	PB2041	Core IX- Plant Physiology	
7.	PB2042	Core X- Plant Ecology and Phytogeography	
8.	PB2043	Core XI- Biotechnology & Bioinformatics	✓
9.	PB2044	Elective IV-(a) Phytochemistry and Pharmacognosy	✓
10.	PB2045	Elective IV-(b) Entrepreneurial Botany	✓
11.	PB20P3	Practical III Taxonomy of Angiosperms & Genetics and Molecular Biology.	
12.	PB20P4	Practical IV- Plant Physiology, Plant Ecology and Phytogeography and Biotechnology & Bioinformatics	

**Item 07/BoS21.01/09: Classification of courses as Employability/ Entrepreneurship/Skill development**

**B.Sc., Botany**

S. No	Course Code	Title of the Course	Employability	Entrepreneurship	Skill development
1.	BC2031	Major Core – III Archegoniate	✓		✓
2.	BC2032	Major – Elective I (a) Herbal Botany	✓		✓
3.	BC2033	(b) Natural Resource Management	✓	✓	✓
4.	BC2034	(c) Agricultural Botany	✓	✓	✓
5.	BA2031	Allied II – Theory: Plant Diversity -I (Algae, Fungi, Bryophyta and Pteridophyta)	✓	✓	✓
6.	BC20S1	Plant Resource Utilization	✓	✓	✓
7.	BC2041	Major Core IV – Plant Ecology and Phytogeography	✓		✓
8.	BC2042	Major – Elective II (a) Biological Resources	✓	✓	✓
9.	BC2043	(b) Food Science	✓	✓	✓
10.	BC2044	(c) Biodiversity and Human Welfare	✓		✓
11.	BC20P2	Major Practical IV – Archegoniate & Plant Ecology and Phytogeography			✓
12.	BA2041	Allied II - Plant Diversity-II and Plant Physiology	✓		✓
13.	BA20P2	Allied II – Practical: Plant Diversity – I & II and Plant Physiology	✓		✓
14.	BC20S2	Algal Biotechnology	✓	✓	✓

## M.Sc., Botany

S. No	Course Code	Title of the Course	Employability	Entrepreneurship	Skill development
1.	PB2031	Core VII- Taxonomy of Angiosperms	✓	✓	✓
2.	PB2032	Core VIII– Genetics and Molecular Biology	✓	✓	✓
3.	PB2033	Elective III–(a)Horticulture			✓
4.	PB2034	Elective III – (b)Forestry	✓	✓	✓
5.	PB20PR	Project			✓
6.	PB20S1	Biology for competitive exam – I	✓		✓
7.	PB2041	Core IX- Plant Physiology	✓	✓	✓
8.	PB2042	Core X–Plant Ecology and Phytogeography	✓		✓
9.	PB2043	Core XI–Biotechnology& Bioinformatics			✓
10.	PB2044	Elective IV–(a)Phytochemistry and Pharmacognosy		✓	✓
11.	PB2045	Elective IV–(b) Entrepreneurial Botany		✓	✓
12.	PB20P3	Practical III - Taxonomy of Angiosperms & Genetics and Molecular Biology.	✓	✓	✓
13.	PB20P4	Practical IV - Plant Physiology, Plant Ecology and Phytogeography and Biotechnology & Bioinformatics	✓	✓	✓
14.	PB20S2	Biology for competitive exam – II		✓	✓

**Item 08/ BoS 20.01/10: Classification of the courses as local/national/ regional/ global****B.Sc., Botany**

The members of the Board classified the UG courses in the new structure based on local/  
national/ regional/ global

S. No	Course Code	Title of the Course	Local	National	Regional	Global
1.	BC2031	Major Core – III Archegoniate	✓	✓	✓	✓
2.	BC2032	Major – Elective I (a) Herbal Botany	✓	✓	✓	✓
3.	BC2033	(b) Natural Resource Management	✓	✓	✓	✓
4.	BC2034	(c) Agricultural Botany	✓	✓	✓	✓
5.	BA2031	Allied II – Theory: Plant Diversity -I (Algae, Fungi, Bryophyta and Pteridophyta)	✓	✓	✓	✓
6.	BC20S1	Plant Resource Utilization	✓			
7.	BC2041	Major Core IV – Plant Ecology and Phytogeography	✓	✓	✓	✓
8.	BC2042	Major – Elective II (a) Biological Resources	✓		✓	✓
9.	BC2043	(b) Food Science	✓	✓	✓	✓
10.	BC2044	(c) Biodiversity and Human Welfare	✓	✓	✓	✓
11.	BC20P2	Major Practical IV –Archegoniate &Plant Ecology and Phytogeography	✓	✓	✓	✓
12.	BA2041	Allied II - Plant Diversity-II and Plant Physiology	✓		✓	✓
13.	BA20P2	Allied II – Practical: Plant Diversity – I & II and Plant Physiology	✓	✓	✓	✓
14.	BC20S2	Algal Biotechnology	✓			

**M.Sc., Botany**

The members of the Board classified the PG courses in the new structure based on local/  
national/ regional/ global

S. No	Course Code	Title of the Course	Local	National	Regional	Global
1.	PB2031	Core VII- Taxonomy of Angiosperms	✓	✓		✓
2.	PB2032	Core VIII– Genetics and Molecular Biology	✓	✓	✓	✓
3.	PB2033	Elective III–(a)Horticulture		✓	✓	✓
4.	PB2034	Elective III – (b)Forestry		✓	✓	✓
5.	PB20PR	Project				
6.	PB20S1	Biology for competitive exam – I	✓	✓		
7.	PB2041	Core IX- Plant Physiology	✓	✓	✓	✓
8.	PB2042	Core X–Plant Ecology and Phytogeography	✓	✓		✓
9.	PB2043	Core XI–Biotechnology& Bioinformatics	✓	✓	✓	
10.	PB2044	Elective IV–(a)Phytochemistry and Pharmacognosy	✓	✓	✓	
11.	PB2045	Elective IV–(b) Entrepreneurial Botany	✓		✓	
12.	PB20P3	Practical III - Taxonomy of Angiosperms & Genetics and Molecular Biology.	✓		✓	✓
13.	PB20P4	Practical IV - Plant Physiology, Plant Ecology and Phytogeography and Biotechnology & Bioinformatics	✓	✓	✓	
14.	PB20S2	Biology for competitive exam – II	✓	✓	✓	✓



**Item 09/BoS 20.01/11: Classification of courses as Crosscutting Issues - Gender equity/Environment and sustainability/Human Values/Professional Ethics**

**B.Sc., Botany**

Gender equity - Nil

Human Values - Nil

S. No	Course Code	Title of the Course	Environment and sustainability	Professional Ethics
1.	BC2031	Major Core – III Archegoniate	✓	
2.	BC2032	Major – Elective I (a) Herbal Botany	✓	✓
3.	BC2033	(b) Natural Resource Management	✓	✓
4.	BC2034	(c) Agricultural Botany	✓	✓
5.	BA2031	Allied II – Theory: Plant Diversity -I (Algae, Fungi, Bryophyta and Pteridophyta)	✓	
6.	BC20S1	Plant Resource Utilization	✓	
7.	BC2041	Major Core IV – Plant Ecology and Phytogeography	✓	
8.	BC2042	Major – Elective II (a) Biological Resources		✓
9.	BC2043	(b) Food Science		✓
10.	BC2044	(c) Biodiversity and Human Welfare	✓	✓
11.	BA2041	Allied II - Plant Diversity-II and Plant Physiology	✓	
12.	BC20P2	Major Practical IV –Archegoniate &Plant Ecology and Phytogeography	✓	
13.	BA20P2	Allied II – Practical: Plant Diversity – I & II and Plant Physiology	✓	
14.	BC20S2	Algal Biotechnology	✓	✓

**M.Sc., Botany**

Gender equity - Nil

S. No	Course Code	Title of the Course	Environment and sustainability	Human Values	Professional Ethics
1.	PB2031	Core VII- Taxonomy of Angiosperms			
2.	PB2032	Core VIII- Genetics and Molecular Biology	✓		
3.	PB2033	Elective III-(a) Horticulture	✓		
4.	PB2034	Elective III - (b) Forestry	✓		
5.	PB20PR	Project			
6.	PB20S1	Biology for competitive exam - I	✓		
7.	PB2041	Core IX- Plant Physiology	✓		
8.	PB2042	Core X-Plant Ecology and Phytogeography	✓		
9.	PB2043	Core XI-Biotechnology & Bioinformatics	✓		✓
10.	PB2044	Elective IV-(a) Phytochemistry and Pharmacognosy	✓		
11.	PB2045	Elective IV-(b) Entrepreneurial Botany	✓	✓	
12.	PB20P3	Practical III - Taxonomy of Angiosperms & Genetics and Molecular Biology.	✓		
13.	PB20P4	Practical IV - Plant Physiology, Plant Ecology and Phytogeography and Biotechnology & Bioinformatics	✓		
14.	PB20S2	Biology for competitive exam - II	✓		

**Item 10/BoS 21.01/12: Conduct of UG and PG Practical examination**

The board members suggested to conduct both UG and PG major Practical to conduct during even semesters.

**Item 11/BoS 21.01/13 Recommendation of books and journals for UG and PG**

The members suggested to subscribe the following journals for the department from the general library:

- i. Journal of Biology – ISSN: 1475-4924
- ii. Journal of Advanced Research in Biotechnology – ISSN: 2475-4714

The BoS members recommended the following books based on the modified/Revised syllabus for M.Sc. Botany

- i. David Hoffmann, 2003. Medical Herbalism: The Science and Practice of Herbal Medicine. Simon & Schuster Publishers, India.
- ii. J. Pursell, 2016. The Herbal Apothecary: 100 Medicinal Herbs and How to Use Them. Timber Press. Publishing. Portland, Oregon.
- iii. Amritpal Singh, 2011. Herbalism, Phytochemistry and Ethnopharmacology. CRC Press Taylor & Francis Group, LLC.
- iv. Sharada L. Deore, 2019. Pharmacognosy & Phytochemistry A Companion Handbook. Bsp Books Pvt. Limited, Hyderabad

**Item 12/BoS21.01/14: Conduct of seminars/ workshops in collaboration with Government Agents/Universities/NGOs**

Workshops and seminars by Faculty from Universities of Tamilnadu and Kerala were suggested.

**Item 13/BoS 21.01/15: Suggestions for innovative teaching and evaluation techniques for UG and PG**

The BoS members suggested the following methodologies to enhance teaching, learning and evaluation.

- i. Use of the participative learning techniques such as Flip Class, Group discussion, field visit, memory game and case study.
- ii. New mode of evaluation which rely on the creativity rather than memorizing, group activities such as Quizizz, Socrative, Google forms and Open book test.

**Item 14/BoS 21.01/16: New Measuresto be undertaken by the department**

- i. Organize innovative student projects (DISCOVER)
- ii. Organize programme for school teachers.
- iii. Organize programme for school children.
- iv. Organize programmesto the neighborhoodin-order to enhance entrepreneurship.

**Item15/BoS20.01/17: Feedback Action Taken**

Department	Stakeholders	Feedback received	Action Taken
Botany	Students	Introduce SET/NET content in the syllabus	SET/NET syllabus is introduced as Self Learning Course.
	Parents	Satisfied with the curriculum and discipline of the department.	-
	Teacher	More weightage can be given for entrepreneurial courses	Entrepreneurial Botany paper was implemented.
	Alumni	Field work related courses can be introduced.	Implemented

**Feedback from Student Representatives**

- Mandatory Job oriented courses can be introduced.
- Introduce new courses focusing on competitive examinations.

Name of the Students: R. Nithisha (UG) *Nithisha R.*

Amaliya Afrin (PG) *Amaliya Afrin*

**Item 16/BoS 21.01/18: Next Meeting of the BoS**

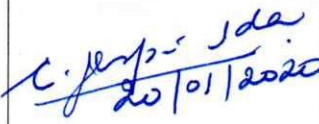

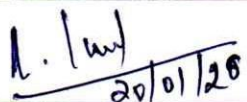

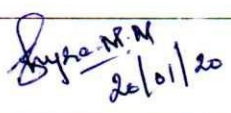
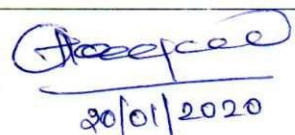



The members of the board suggested to have the next meeting of BoS in the month of August, 2021.

**Item 17/BoS 21.01/19: Any other - Nil**

**Item 10 /BoS 20.01/14: Next Meeting of the BoS**

The members of the board suggested to have the next meeting of BoS in the first week of January 2021

The meeting ended with vote of thanks by the HoD, the Chairperson of the BoS at 3.45pm.

Sl.No	Name of the Members	Designation	Signature
1.	Dr. C. Jespin Ida	Associate Professor & Head , Holy Cross College (Autonomous), Nagercoil-4	 20/01/2020
2.	Dr. S. Beschi Antony Rayan	Associate Professor & Head , Department of Botany, St.Xaviers College (Autonomous), Playamkottai.	 20/01/2020
3.	Dr. N. Vasudevan	Head & Associate Professor, Saraswathi Narayanan College, Madurai - 22	 20/01/20
4.	Dr. V. Anand Gideon	Associate Professor & Head, Bisop Heber College (Autonomous), Tiruchirappalli - 620 017	 20/01/20
5.	Dr. K.P. Srinivasakumar	Chief Scientific Officer, Inbiotics, Nagercoil.	-
6.	Ms. M.M. Shyra	M.Phil. Student, Scott Christian College, Nagercoil - 629 003	 20/01/20
7.	Mrs. J. Albino Wins	Assistant Professor, Department of Botany, Holy Cross College (Autonomous), Nagercoil-4	 20/01/2020
8.	Dr. N. Benit	Assistant Professor, Department of Botany, Holy Cross College (Autonomous), Nagercoil-4	 20.01.2020
9.	Dr. J. Celin Pappa Rani	Assistant Professor, Department of Botany, Holy Cross College (Autonomous), Nagercoil-4	 20/01/2020
10.	Dr. G. Jerlin Deletta	Assistant Professor, Department of Botany, Holy Cross College (Autonomous), Nagercoil-4	 20/01/2020