

DEPARTMENT OF BOTANY

SACRED HEART COLLEGE, THEVARA (AUTONOMOUS)

Meeting of the Board of Studies of Botany Conducted on 01.11.2014

Time: 11.00 AM

Venue: Department staff room

Members present

1. Dr. George Joseph (Chairman)
2. Dr. M S Francis
3. Dr. C M Joy
4. Dr. Giby Kuriakose
5. Fr. Dr. Jose John
6. Dr. John E Thoppil
7. Dr. V N Sanjai
8. Binoy C

The second meeting of BoS (Department of Botany, SH College, Thevara) held on 01 November 2014 was presided over by Dr. George Joseph, HoD, Department of Botany, SH College, Thevara. Eight BoS members were present in the meeting.

The meeting discussed the syllabus of undergraduate and post graduate Botany programmes separately. Dr. George Joseph started the discussion by emphasizing the need of fundamental science and relevance of agriculture.

The meeting discussed about the relevance of B.Sc. first semester core paper "Methodologies and Perspectives in Science and Diversity in Plants" and decided that this paper shall be replaced by some other relevant paper that includes scope, relevance, history, importance, traditional knowledge etc. These changes shall be made after further necessary discussions.

The meeting discussed on one day field visit by students as part of curriculum and decided to retain the same as a part of first semester academic calendar.

Part of the first semester B.Sc. core paper shall be shifted for fifth semester after necessary modifications.

The BoS unanimously resolved to follow the CBCSS pattern for under graduate programme and Elective system for post graduate programme from 2015 academic year.

It also discussed and agreed upon the inclusion of topics in the new UG syllabus for nurturing different skills for entrepreneurial ventures and grabbing employment opportunities.

Issues related to Gender, environment, sustainability, human values, professional ethics shall be considered and included wherever found apt and applicable with respect to the objectives of the programme.

The BoS discussed the possibility of introducing new courses such as **Horticulture and Nursery Management**. It also suggested to move the General informatics and Methodology course from second semester to fifth semester as it would be advantageous to project works.

The BoS also appreciated and approved the suggestion to remove the core paper in the first semester (Diversity and Perspectives). Since the diversity portions are spread across different courses, it suggests introducing Microbiology and Phycology in the UG first semester as the core course. The perspective part of this course shall be retained in the General Informatics and Methodologies in Plant Sciences course that is proposed to move to the VIth semester.

The BoS unanimously supported the suggestion to incorporate hands on training in place of conventional group project. The BoS entrusted the chairman to further develop criteria, areas, mode of operation, feasibility analysis to get in to MoU with external agencies and institutes.

After conducting the discussions on UG syllabus the meeting discussed in length on Postgraduate (PG) Syllabus.

The Vth semester B.Sc. open course paper shall be diversified by including some of the following topics.

Plantation Management, Bonsai Preparation, Food Processing, Vermicomposting, Malaysian Fruits/Fruit Yielding Trees, Tissue Culture, Organic Farming, Nursery Training, Mushroom cultivation, Medicinal Plants, Aquarium Plants etc.

The BoS discussed about the relevance of starting a value-added course in Orchid Cultivation and gave approval to the same.

The following were the discussion on M.Sc. Syllabus,

The structure and content of the syllabus shall be revised giving emphasis to compatibility of the syllabus with NET. Make curriculum vitae (CV) a mandatory component along with the dissertation and produce the same during comprehensive viva. This shall be mentioned in the syllabus. The PG dissertation should be submitted along with a research paper in a standard journal format and internal marks shall be given for such paper presentations. An abstract of the dissertations shall be made available to the examiners prior to the viva voce. The last chapter of each subject shall include the most advanced topic/portion/development. The repeated papers of M.Sc. 3rd semester and 4th semester (Biotechnology) shall be combined with the inclusion of some advanced area. Include a bridge course for M.Sc. students as the students joining M.Sc. come from different colleges/Universities. Introduce a multi exit programme for B.Sc. that leads to Ph.D. or an integrated B.Sc.-M.Sc.-M.Phil.-Ph.D. programme allowing the student lateral entry for advanced courses after a feasibility study.

The meeting came to an end by 1.10 pm.

Dr. Johnson X Palackappillil
Principal
Sacred Heart College (Autonomous)
Thevara, Kochi-682 013

Chairman

(Board of Studies)

DEPARTMENT OF BOTANY

SACRED HEART COLLEGE, THEVARA (AUTONOMOUS)

Meeting of the Board of Studies of Botany Conducted on 17.03.2015

Venue: Botany Department Seminar Hall

Time: 10.10 AM

Members Present

1. Dr. George Joseph (Chairman)
2. Dr. M S Francis
3. Dr. C M Joy
4. Dr. Giby Kuriakose
5. Fr. Dr. Jose John
6. Dr. John E Thoppil
7. Dr. V N Sanjai
8. Dr. B G Sudha
9. Dr. Linu Mathew
10. Dr. Roy Zachariaias
11. Dr. Joy P Joseph

The following are the major deliberations of the third BoS meeting of the Dept. of Botany, SH College, Thevara. Dr. George Joseph, HoD presided over the meeting. 11 BoS member were present during the meeting.

The proposed syllabus for the B.Sc. autonomous program (both core and complementary courses) have been unanimously approved with the following modifications.

The first semester B.Sc core paper entitled "Methodologies and perspectives in science and an Introduction to the World of Plant Diversity" has been removed and some relevant parts

of this paper have been shifted to 6th semester after merging the same with “General Informatics and Methodologies in Plant Science” of second semester B.Sc. Botany core paper.

Other courses/papers for various semester are arranged or rearranged as follows,

Semester	Course	Title
1	1	Microbiology and Phycology, Practical A
2	2	Mycology, Lichenology and Plant Pathology – Practical B
3	3	Bryophytes, Pteridophytes, Gymnosperms and
4	4	Anatomy, and Angiosperm Morphology, Practical D
5	5	Angiosperm Systematics, Floral Morphology and Economic
Botany	6	Environmental Science & Ecotourism, Practical F
	7	Genetics and Plant Breeding, Practical – G
	8	Cell and Molecular Biology and Evolution, Practical - H
		Open Course Agri-based Micro Enterprises, Horticulture and
		Nursery
		Management, Biotechnology and Bio informatics
	9	Plant Physiology and Biochemistry, Practical – I
	10	Perspective of Science and Methodologies and GI, Practical – J
	11	Biotechnology and Bioinformatics, Practical – K
	12	Horticulture, Nursery Management, Embryology and
6		Reproductive Biology, Practical – L
	13	Core - Choice Based Course, Photo Chemistry and Plant
		Genetic resources Management, Agri Business
		Hands on training/Research project

Of these, the BoS identified that the following papers have to be moved and substituted with;

SL No	Title of the paper	Existing Semester	Moved to	Replaced with	Remarks
1	Microbiology and Phycology	III	I	Bryophytes, Pteridophytes, Gymnosperms	
2	Bryophytes, Pteridophytes, Gymnosperms	V	III	Angiosperm Systematics, Floral Morphology and Economic Botany	
3	General Informatics and Methodologies in Plant Sciences	II	V	Mycology, Lychonology and plant pathology	
4	Mycology, Lichenology and Plant Pathology	V	II	Angiosperm Systematics, Floral Morphology and Economic Botany	
5	Angiosperm Systematics, Floral Morphology and Economic Botany	VI	V	Perspectives of Science, Methodology and General Informatics	Mutual Exchange between semesters

The BoS appreciated and approved the syllabus of Horticulture, Nursery Management, Embryology and Reproductive Biology that is proposed to be introduced in the VIth Semester in place of Genetics, Plant Breeding and Horticulture.

The students can exercise an option for choosing the project work in the third year. It can be a research project or a hands-on training project in any of the following 17 areas for students from 2013 admission onwards,

- 1) Mushroom Cultivation 2) Landscaping and Garden Designing 3) Nursery Management
- 4) Flower Arrangement and Vegetable Carving 5) Topiary and Bonsai 6) Poly house Farming and Precision Farming 7) Organic Farming and Plantation Management 8) Plant Tissue Culture 9) Cultivation of Medicinal Plants 10) Traditional Post-Harvest Technology 11) Natural Fiber Extract and Handicrafts 12) Natural Dyes and Mural Painting 13) Vermicomposting and Organic Manure 14) Bio Pesticides and Insecticides 15) Bio Pesticides and Biological Control 16) Traditional and Natural Food Processing 17) Floriculture and Flower Marketing

The meeting approved to shift one credit from open course to plant systematics, floral morphology and Economic Botany (Course 5) of 5th semester. The meeting decided to grant one extra credit to virtual lab experiments. It is also decided to draft and append a research paper as per Heartian journal of Pure and Applied Sciences in bound form along with the M.Sc. dissertation from 2013 admission onwards.

The meeting granted approval to the value-added courses - Seed Technology and Cultivation of Oyster and Milky Mushrooms.

The meeting concluded by 1.20 pm.


Dr. Johnson X Palackappan
Principal
Sacred Heart College (Autonomous)
Thevara, Kochi-682 013


Chairman
(Board of Studies)

DEPARTMENT OF BOTANY

SACRED HEART COLLEGE, THEVARA (AUTONOMOUS)

Fourth meeting of the Board of Studies of Botany Conducted on 26.11.2015

Venue: Department of Botany, Seminar Hall

Time: 10.40 AM

Members Present

1. Dr. M S Francis
2. Dr. Giby Kuriakose
3. Fr. Dr. Jose John
4. Dr. V N Sanjai
5. Dr. B G Sudha
6. Dr. Linu Mathew
7. Dr. Roy Zachariaias
8. Binoy C.
9. Mr. Kiran George Koshy
10. Mr. Ebin P J
11. Dr. Ima Neerakkal

The fourth BoS meeting of the Department of Botany, Sacred Heart College, Thevara started by 10.40 am with a silent prayer. Dr. M S Francis, HoD and Chairman of BoS presided over the meeting. Eight BoS members and two special invitees (Mr. Ebin P J and Mr. Kiran George Koshy) attended the meeting. Rev. Dr. Jose John, Vice Principal welcomed the members to the meeting. Dr. M S Francis explained the importance of the meeting, emphasizing curriculum syllabus revision with innovation.

Prof. Roy Zachrias explained the mode of action taken to implement hands-on training program for the present B.Sc. final year students as per the decision taken during the 3rd BoS meeting held on 17.03.2015.

Dr. C G Sudha, INTBGRI suggested to include advanced techniques such as Spawn Production Technology for Mushroom Cultivation for B.Sc. students.

Dr. Giby Kuriakose opined that soft copies of the M Sc projects should be collected along with submission of dissertation and make it available in the digital library. Dr. Sudha further suggested to seek funds to implement the hands-on training programme from state/UGC and other funding agencies. Dr. Sudha emphasized the need for enhancing the scientific topics, presentation and writing skills of students at different levels. Dr. Linu Mathew suggested some modification and points that were relevant for the syllabus revision. The BoS discussed over the suggestions.

The external BoS members expressed their happiness over the successful implementations of hands-on training to the ongoing BSc final year students.

The following were the major resolutions made during the meeting,

1. Internship should be implemented as extra credit after second semester for the M.Sc. students from 2015 admission onwards.
2. Virtual Lab experiments should be implemented as an optional extra credit for M.Sc. students in the semester wherever applied.
3. The Biotechnology paper in the third semester has been substituted by **Plant Reproductive Biology, Palynology and Plant Breeding**.
4. Different methods of seed germination techniques to determine the effect of different physiological conditions and pre sowing treatments such as soaking in water, different concentration of GA3 solution chilling, mechanical scarification using acid free germination. Paper/absorbent cotton/filter paper in petri dish etc. should be included in the Plant Reproductive Biology syllabus as practical element.
5. B.Sc. topics in M.Sc. syllabus is separated out from the main syllabus as a course introduction part. The first internal test shall be based on this part.
6. Other relevant aspects on various information related to Reproductive Biology shall be included in the respective syllabus.
7. Some of the courses are rearranged and placed in relevant semester credits and hours for these papers have been changed accordingly.

8. Modern techniques in cultivation methods such as precision farming and other recent methods should be incorporated with **Plant Breeding**.
9. Each student should present a published paper (in a peer reviewed journal) recommended by the course teacher as seminar.
10. Project theme defense presentation should be considered as internal evaluation and the score for the same should be considered as internal evaluation and the score for the same should be included in the M.Sc. project internal mark.

Dr. Giby Kuriakose, Secretary, BoS, Department of Botany, Sacred Heart College, Thevara proposed the vote of thanks.

The meeting concluded by 12.35 pm



Dr. Johnson X Palackappinil
Principal
Sacred Heart College (Autonomous)
Thevara, Kuttanadu


Chairman

(Board of Studies)