

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 Zacharias
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
6	11	Biotechnology and Bioinformatics, Practical – K
	12	Horticulture, Nursery Management, Embryology and 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 Palackappu
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 Zacharias
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 Zacharias 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 petin 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 Palackappillil
Principal
Sacred Heart College (Autonomous)
Thevara, Kollam


Chairman

(Board of Studies)

DEPARTMENT OF BOTANY

SACRED HEART COLLEGE, THEVARA (AUTONOMOUS)

Sixth meeting of the Board of Studies of Department of Botany Conducted on 25.01.2017

Venue: Department of Botany

Time: 3.30 PM

Members Present

1. Dr. M S Francis
2. Fr. Dr. Jose John
3. Dr. Giby Kuriakose
4. Dr. Ima Neerakkal
5. Mr. Ebin P J
6. Ms. Princymol A P
7. Lesly Augustine

The sixth Board of Studies meeting of the Department of Botany, SH College, Thevara started by 3.30 pm on 25 January, 2017 with a silent prayer. Dr. M S Francis, HoD and Chairman of BoS presided over the meeting. Seven BoS members were present during the meeting. Dr. M S Francis explained the agenda of the meeting. Major discussions and resolutions of the meeting are given below.

1. Dr. Giby Kuriakose suggested to modify or revise the evaluation pattern for hands on training program of B.Sc. final year. The BoS approved the same and decided to revise the same based on experimentation.
2. An evaluation of the newly introduced syllabus for the MSc Botany programme from the ongoing MSc II nd semester students is planned and a questionnaire for the same is distributed among the Bos members for suggestions and corrections.
3. **The BoS decided to initiate revision process of B Sc. Botany syllabus.**

4. The BoS decided to introduce bridge course for each subject as the introduction to the course.
5. The BoS decided to introduce the value-added course Vegetative Propagation for Crop Improvement.
6. The BoS discussed the definitions of student attributes and decided to plan accordingly.
7. The chairman informed the BoS that the learning outcome should be based on knowledge, information, attitude and application of the students.
8. The final year BSc study tour should be academic oriented programme and shall be arranged accordingly.
9. Questions for the MSc semester – II (P2) question bank is in progress. The questions from the external question setters are awaiting and shall be submitted to the Controller of Examination of the college as early as possible.

Dr. Johnson X Palackappillil
Principal
Sacred Heart College of Arts and Sciences
Thiruvananthapuram

Chairman
(Board of Studies)

DEPARTMENT OF BOTANY

SACRED HEART COLLEGE, THEVARA (AUTONOMOUS)

Seventh Meeting of the Board of Studies of the Department of Botany Conducted on

22.07.2017

Venue: Department of Botany

Time: 11.00 AM

Members Present

1. Fr. Dr. Jose John
2. Dr. Mathew Dan
3. Dr. V N Sanjai
4. Binoy C.
5. Dr. Giby Kuriakose
6. Dr. Ima Neerakkal
7. Mr. Ebin P J
8. Ms. Princymol A P
9. Lesly Augustine
10. Kiran George Koshy

The seventh Board of Studies meeting of the Department of Botany, SH College, Thevara started by 11.00 am, 22 July, 2017 with a silent prayer. Dr. Jose John, HoD and Chairman of the BoS presided over the meeting. 10 BoS members were present during the meeting. Dr. Fr. Jose John welcomed and explained the presented reports of the 5th and 6th BoS. He then introduced the new BoS member Dr. Mathew Dan (Scientist E1, JNTBGR1) to the members of the BoS.

Major resolutions of the meeting are as follows:

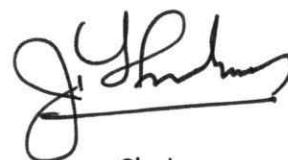
1. The meeting discussed the need, possibilities and challenges of revising the UG syllabus in light of completion of 3 years after the revision of the B Sc. Botany syllabus.
2. BoS decided to entrust the course teacher to come up with suggestions and modifications if any on the existing BSc. Syllabus.
3. The BoS compared and discussed over the revised syllabus of MG University with that of B Sc. Botany, SH College, Thevara.
4. The BoS suggested to get feedback from students on the ongoing syllabus for each course per semester.
5. It also suggested to get feedback on hands on training programme of final year B Sc. Botany.
6. It also suggested to introduce a value-added courses on the following: Post-harvest Technology of Mushrooms, Advances in Tissue Culture, Orchid Cultivation.
7. The BoS discussed the existing PG syllabus in light of the feedback from 3rd semester PG students based on PG 1st and 2nd semester and decided to continue with the revised syllabus since it is not logical to come to conclusions.
8. The BoS discussed whether spreading of each subject at least in 5th and 6th semester UG Programme to 2 semesters instead of one semester and suggested to find out the feasibility of the same.

Resolution: The BoS unanimously resolved to suggest and increase in the sanctioned strength by 30% for UG programme.

The meeting came to an end by 03.20 pm.



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Chairman

(Board of Studies)

DEPARTMENT OF BOTANY

SACRED HEART COLLEGE, THEVARA (AUTONOMOUS)

Eighth Meeting of the Board of Studies of the Department of Botany Held on 13.08.2018

Venue: Department of Botany

Time: 11.10 AM

Members Present

1. Fr. Dr. Jose John
2. Dr. M S Francis
3. Dr. Mathew Dan
4. Prof. Dennis Thomas T
5. Dr. Giby Kuriakose
6. Ms. Princymol A P
7. Lesly Augustine
8. Kiran George Koshy
9. Dr. P K Bindu

The eighth Board of Studies meeting (UG & PG) of the Department of Botany, SH College, Thevara was convened on 13th June 2018 at 11.00am with a silent prayer. Fr. Dr. Jose John HoD and Chairman of BoS presided over the meeting. Nine BoS members were present in the meeting. Fr. Dr. Jose John welcomed the members to the meeting. He introduced two new members namely Dr. Bindu (SD College, Alappuzha) and Dr. Dennis Thomas (Central University, Kerala) to the BoS. He also elaborated the agenda of the meeting Dr. Giby Kuriakose, Secretary, BoS presented the minutes of the BoS meeting.

Prof. Ebin P J presented a consolidated analysis of student evaluation done by MSc 2016-18 batch before the BoS discussed over major concerns raised by students.

Major resolutions of the meeting.

The BoS discussed the revised BSc syllabus and unanimously approved the same.

The credit for BSc project cum hands-on training shall be revised from one to two credits.

The BoS suggested to make an attempt to split the courses into part one and part two and spread across two semesters. This shall be considered after making a framework or outline of possible syllabus format.

BoS members unanimously recommended the following inclusion to the BSc. Syllabus,

- a. Budding/grafting/layering shall be introduced as a hands-on training programme.
- b. Environment Science credits shall be included in the main marklist/certificate.
- c. Portions related to different certification process agencies and their importance in the core course plant breeding shall be incorporated.
- d. Field visits, field book and tour reports shall be included for all diversity related topics wherever it is not in place.



Dr. Johnson X Palackappanil
Principal
Sacred Heart C
Theva



Chairman

(Board of Studies)

DEPARTMENT OF BOTANY

SACRED HEART COLLEGE, THEVARA (AUTONOMOUS)

Ninth Meeting of the Board of Studies of the Department of Botany Held on
15.03.2019

Venue: Department of Botany

Time: 11.20 AM

Members Present

1. Fr. Dr. Jose John
2. Prof. Dennis Thomas T.
3. Dr. Ima Neerakkal
4. Dr. Giby Kuriakose
5. Mr. Ebin P J
6. Ms. Princymol A P
7. Mr. Lesly Augustine
8. Mr. Kiran George Koshy

The ninth meeting of the Board of Studies of the Department of Botany, SH College, Thevara was convened on 15th March 2019 at 11.20 am. The meeting started with a silent prayer. Fr. Dr. Jose John, HoD and Chairman of BoS presided over the meeting. Eight BoS members were present in the meeting. Fr. Dr. Jose John welcomed the members to the meeting. He explained the significance and agenda of the meeting. Dr. Giby Kuriakose, Secretary, BoS presented the minutes of 8th BoS meeting.

Dr. Giby Kuriakose presented a consolidated analysis of student evaluation by the current MSc IV semester students. The BoS discussed the same. Major concerns of students were analyzed in detail. Dr. Ima Neerakkal presented a consolidated analysis of students' evaluation of VIth semester BSc. Botany.

The following were the resolutions made in the meeting:

I **PG Syllabus Revision:**

1. PG syllabus shall be revised by incorporating relevant advanced topics and shall be introduced for 2020-21 admission onwards.
2. Evaluation from different stakeholders such as students, parents, alumni shall be considered for the revision.
3. Hour and credit distribution of each paper should be taken care of while revising the syllabus. For this, we shall use the M.Sc. Botany syllabus of MG University, Kottayam as a template.
4. The syllabus shall be in accordance with the pattern provided in the parent University (MG University, Kottayam). However, it shall contain advanced topics as and when required.
5. B.Sc. topics shall be incorporated as a connecting link of the basics that is being taught in the undergraduate level to the advanced and applied levels in the MSc. Bridging shall be a mandate for each course. Every course teacher should make sure about the same.
6. Advanced learning (as extra credits) included in the existing syllabus shall be eliminated.
7. Virtual lab experiments shall be made optional.
8. Outcome Based Education (OBE) strategy shall be adopted wherever possible.
9. Internship and M.Sc. project work shall be assigned from first year of the MSc programme itself.
10. A project proposal for the MSc project shall be made at the end of first semester.

II. Add on courses

The meeting also resolved to conduct three add on courses of 36 hours duration (two credits) in the department namely i) Plant Tissue Culture and Micro Propagation ii) Pollination Biology and Plant Animal interaction and iii) Organic Farming and Roof top Cultivation.


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


Chairman

(Board of Studies)