



KANNUR UNIVERSITY

(Abstract)

B.Sc. Botany Programme-Scheme, Syllabus and Pattern of Question Papers of Core, Complementary Elective and Generic Elective Course under Choice Based Credit and Semester System (Outcome Based Education System-OBE) in Affiliated colleges with effect from 2019 Admission-Implemented-Orders issued.

Academic Branch

No.Acad.C2/12611/2019

Civil Station P.O, Dated 22/06/2019

- Read:-
1. U.O.No.Acad.C2/429/2017 dated 10-10-2017
 2. The Minutes of the Meeting of the Curriculum Restructuring Committee held on 28-12-2018.
 3. U.O No. Acad.C2/429/2017 Vol.II dated 03-06-2019
 4. The Minutes of the Meeting of the Board of Studies in **Botany (UG)** held on 06/06/2019
 5. Syllabus of **B.Sc. Botany** Submitted by the Chairperson, Board of Studies in **Botany (UG)** dated 15/06/2019

ORDER

1. A Curriculum Restructuring Committee was constituted in the University vide the paper read (1) above to co-ordinate the activities of the Syllabus Revision of UG programmes in Affiliated colleges of the University.

2. The meeting of the Members of the Curriculum Restructuring Committee and the Chairpersons of different Boards of Studies held, vide the paper read (2) above, proposed the different phases of Syllabus Revision processes, such as conducting the meeting of various Boards of Studies, Workshops, discussion etc.

3. The Revised Regulation for UG programmes in Affiliated colleges under Choice Based Credit and Semester System (in OBE-Outcome Based Education System) was implemented with effect from 2019 Admission as per paper read (3) above.

4. Subsequently, as per paper read (4) above, the Board of Studies in **Botany (UG)** finalized the Scheme, Syllabus & Pattern of Question Papers for Core, Complementary Elective & Generic Elective Course of **B.Sc. Botany** Programme to be implemented with effect from 2019 Admission.

5. As per paper read (5) above, the Chairperson, Board of Studies in **Botany (UG)** has submitted the finalized copy of the Scheme, Syllabus & Pattern of Question Papers of **B.Sc. Botany** Programme for implementation with effect from 2019 Admission.

6. The Vice Chancellor after considering the matter in detail and in exercise of the powers of the Academic Council conferred under Section 11(1) of Kannur University Act 1996 and all other enabling provisions read together with accorded sanction to implement the Scheme, Syllabus & Pattern of Question Papers(Core/Complementary Elective/Generic Elective Course) of the **B.Sc. Botany** programme under Choice Based Credit and Semester System(in OBE-Outcome Based Education System) in the Affiliated colleges under the University with effect from 2019 Admission, subject to reporting to the Academic Council.

7. The Scheme, Syllabus & Pattern of Question Paper of the **B.Sc. Botany** Programme are uploaded in the University website (www.kannuruniversity.ac.in)

Orders are issued accordingly.

Sd/-
DEPUTY REGISTRAR (ACADEMIC)
For REGISTRAR

To

The Principals of Colleges offering **B.Sc. Botany** programme

Copy to:-

1. The Examination Branch (through PA to CE)
2. The Chairperson, Board of Studies in **Botany (UG)**
3. PS to VC/PA to PVC/PA to Registrar
4. DR/AR-I, Academic
5. The Computer Programmer (for uploading in the website)
6. SF/DF/FC



Forwarded/By Order

SECTION OFFICER



KANNUR UNIVERSITY

BOARD OF STUDIES, BOTANY (UG)

B. Sc. BOTANY SYLLABUS

CHOICE BASED CREDIT AND SEMESTER SYSTEM-

OUTCOME BASED EDUCATION

(2019 ADMISSION ONWARDS)

SUGGESTED METHODOLOGY FOR TEACHING, LEARNING AND EVALUATION

TEACHING-LEARNING

The whole programme is an Outcome Based Education. Different methods are to be used for teaching learning evaluation; in order to attain the fixed outcomes in each course.

Theory: Student: Review of Literature, Assignment, Presentation, e-learning, Discussion and Debate with peer group, teachers and experts.

Teacher: Lecture, Demonstration, Presentation, Discussion and Debate.

Practical: Student: Identification, Comparison, Differentiation and Categorisation of different plants and their parts by observing Permanent Slides, Hand sectioning etc., Demonstration, Experimentation, Field visit, Report Writing and Keeping records

Teacher: Demonstration, Experimentation, Field visit, Certification

Project: The finalization of the topic should be done at the beginning of the fourth semester and the list should be kept with the HOD for the perusal of the University Examination authorities. There should be at least three projects from a department. The selection of the topic and group should be student centered as far as possible. A project log book/register is to be maintained by each student and submitted along with the project report during the final submission.

Student: Suggestion of Topic, Discussion with the Project guide and Peer group, Review of Literature, Project planning and Designing, Experimentation, Data Analysis and Project Report Preparation and Presentation.

Teacher: Confirmation of Topic, Demonstration, Planning of Experimentation, Guidance and Correction and Certification.

Field Study/ Study Tour: The plant diversity studies should be carried out with the support of Field Study/ Study Tour. During each year there should be a field study of 1-5 days duration, with a minimum of 5 days for the completion of the programme.

General Assignment: Every student should choose one of the topics for self study from the beginning of the programme. A report should be submitted by the end of Sixth Semester.

Suggested topics include: Studies on mangroves/Sacred groves/Campus flora; Cultivation of RET/Fruit/Vegetable/Medicinal plants/Mushroom; Topics related to Social responsibility- River restoration, PBR preparation, Landscaping and Green Auditing.



KANNUR UNIVERSITY
BOARD OF STUDIES, BOTANY (UG)

SYLLABUS FOR B.Sc. BOTANY CORE COURSES

**CHOICE BASED CREDIT AND SEMESTER SYSTEM-
OUTCOME BASED EDUCATION
(2019 ADMISSION ONWARDS)**

B. Sc BOTANY PROGRAMME- CORE COURSES

Semester	Course Code	Title	Marks			Credit	Theory	Practical	TOTAL
			Internal	External	Total		hrs/wk		
1	1B01BOT	Cytology and Angiosperm Anatomy	10	40	50	3	2	2	4
2	2B02BOT	Reproductive Botany	10	40	50	3	2	2	4
3	3B03BOT	Plant Diversity I– Algae and Bryophytes	10	40	50	3	3	2	5
4	4B04BOT	Plant Diversity II – Pteridophytes and Gymnosperms	10	40	50	3	3	2	5
4	4B05BOT	CORE PRACTICAL I	20	70	100	4	nil	2	-
		Record + Field Study		10			-		
5	5B06BOT	Angiosperm Systematics and Ethnobotany	10	40	50	3	3	4	7
5	5B07BOT	Plant Physiology and Metabolism	10	40	50	4	4	1	5
5	5B08BOT	Microbiology, Mycology, Lichenology and Phytopathology	10	40	50	4	4	2	6
5	5B09BOT	Research Methodology, Instrumentation and Biostatistics	10	40	50	3	4	1	5
5	5D01BOT	Generic Elective Course					2		2
6	6B10BOT	Environmental Science and Phytogeography	10	40	50	4	4	2	6
6	6B11BOT	Genetics, Molecular Biology and Plant Breeding	10	40	50	4	5	3	8
6	6B12BOT	Biotechnology and Bioinformatics	10	40	50	4	5	2	7
6	6B13BOT	Evolution and Palaeobotany	10	40	50	3	3	1	4
6	6B14BOT	CORE PRACTICAL II	20	70	100	4		4	
		Record + Field Study		10					
6	6B15BOT	CORE PRACTICAL III	20	70	100	4		4	
		Record + Lab Experiment Study		10					
6	6B16BOT	Project, Field study and Viva voce	10	40	50	3			
		TOTAL	190	760	950	56			

CORE COURSE 16- PROJECT/FIELD STUDY/VIVA VOCE

Semester	Course Code	Hours per week	Credit	Exam Hours
6	6B16BOT/PLS		3	3

Course Outcomes

1. Learning the fundamental techniques used in a research
2. First-hand experience in doing science.
3. Development of the skill to communicate science.
4. Internalisation of skills for further application in designing scientific experimentation.

PROJECT

Every student of a UG Programme shall have to work on a project under the supervision of a faculty member as per the curriculum. Project can be started from the beginning of the fourth semester. BoS suggests a team project, but individual projects can be promoted. A log book should be maintained by each student during the work and should be submitted along with the project report for valuation. The submission of the projects should be in the last week of February in sixth semester.

The internal evaluation should be done by the supervising faculty member and should be completed by the end of February in sixth semester.

The project report should have all the parts of a scientific report with an emphasis to objectives, materials and methods, data analysis and conclusion. References used for the work and report preparation should be cited properly. Project evaluation will be done by the end of sixth semester by the external examiners appointed by the University.

FIELD STUDY

Every student of BSc Botany/Plant Science should complete a minimum five day field study during the programme. Field study report(s) should be submitted along with the project report in the sixth semester.

VIVA VOCE

Viva voce is having four components 1. Project work 2. Field study 3. General assignment done by the student and 4. General knowledge on the subject developed during this three year programme.

General guidelines for the work and also for evaluation is given in the pages 7-9 of this syllabus.