NAAC Criterion-I

Key Indicator –1.2.2

Structure of the program clearly indicating the course as approved by competent Board of studies

1.2.2 Evidences

Department of Plant Science

Central University of Himachal Pradesh, Dharamshala, Kangra

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Department of Plant Science

S. No.	DESCRIPTION	Agenda item	PageNo.
1	Approved Minutes of the CDC highlighting the courses structure as per CBCS dt 16/08/2017	Item BOT-BOS-1/18-2	2
2	Approved Minutes of the 1st BOS meeting highlighting the CBCS bases course curriculum dt 11/04/2018	BOT-BOS-1/18-1	3-6

विभागाध्यक्ष, पादप विज्ञान विभाग
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File No: Plant Science/2-3(Head File)/CUHP/21/489　　　　　**Dated: 27/03/2023**

1.2.2 Programmes in which CBCS / Elective course system implemented

　　　　M.Sc Plant Science (Botany)

　　　　Ph.D. Plant Science (Botany)

All programs are based on Choice Based Credit System (CBCS) / elective course system adapted by university and as reflected in the **Minutes of Curriculum Development Committee and First Board of Studies Meeting (Attached)**

विभागाध्यक्ष, पादप विज्ञान विभाग

Head, Department of Plant Sciences

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Central University of Himachal Pradesh

(ESTABLISHED UNDER CENTRAL UNIVERSITIES ACT 2009)
PO Box: 21, Dharamshala, Himachal Pradesh-176215

No. Botany/1-1/CUHP/2017

Date: 16.08.2017

A meeting of Course Curriculum Development Committee was held on 16 August 2017 to propose the courses as per CBCS Guidelines for M.Sc. Botany Programme.

The following members were present in the meeting:-

1. Prof. H.R. Sharma, Dean, School of Social Science

2. Prof. Arvind Bhatt, Deptt. of Biotechnology, Himachal Pradesh University, Shimla

3. Dr. Adarsh Pal Vig, Department of Botanical & Environmental Sciences, Guru Nanak Dev University, Amritsar

The Committee suggested the following structure of the courses to be offered in the department of M.Sc. Botany as per new CBCS.

COURSE STRUCTURE (M.Sc. Botany)

Core Compulsory Courses (40 Credits)

Sr. No.	Course Code	Course Name	Credits	Pre-requisite/ Remarks
1	BOT 501	Plant Cell Biology	4	
2	BOT 502	Biodiversity of Viruses, Bacteria and Fungi	4	
3	BOT 503	Phycology	4	
4	BOT 504	Bryophytes and Pteridophytes	4	
5	BOT 505	Genetics and Cytogenetics	4	
6	BOT 506	Gymnosperms	4	
7	BOT 507	Angiosperms	4	
8	BOT 508	Plant Physiology and Metabolism	4	
9	BOT 509	Plant Ecology and Evolution	4	
10	BOT 510	Anatomy and development of Plants	4	

हिमाचल प्रदेश केंद्रीय विश्वविद्यालय

Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

अस्थाई शैक्षणिक खण्ड, शाहपुर, ज़िला काँगड़ा, हिमाचल प्रदेश – 176206

Temporary Academic Block, Shahpur, Distt. Kangra (HP) - 176206

Website: www.cuhimachal.ac.in

File No.: Botany/1-5/BOS/CUHP/18/39   Dated: 11.04.2018

MINUTES OF THE FIRST BOARD OF STUDIES MEETING HELD ON 11TH APRIL, 2018

The meeting of the **First Board of Studies** of the **Department of Botany**, School of Life Sciences was held on 11th April, 2018 in **Committee Room** of Central University of Himachal Pradesh, **Temporary Academic Block, Shahpur**. Prof. Ambrish Kumar Mahajan, Head, Department of Botany and Dean, School of Life Sciences welcomed all the Hon'ble members.

Following members attended the meeting:

1. Prof. Ambrish Kumar Mahajan – Head and Convener

    Head, Department of Botany and Dean, School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur.

2. Prof. G.A. Shantibala Devi – Subject Expert

    Department of Life Sciences, Manipur University, Manipur.

3. Dr. Arvind Bhatt – Subject Expert

    Department of Biotechnology at Himachal Pradesh University, Summer Hill, Shimla.

4. Prof. Mushtaq Ahmed – Vice Chancellor's Nominee

    Department of Environmental Sciences, School of Earth and Environmental Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur.

5. Dr. Vikram Singh – Vice Chancellor's Nominee

    Centre for Computational Biology and Bioinformatics, School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur.

6. Ms. Nivedita Rana – Special Invitee

    Department of Zoology, School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Dehra.

7. Dr. Vivek Sharma – Special Invitee

    Department of Zoology, School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Dehra.

8. Dr. Shalini Chandel – Special Invitee
Department of Botany, School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Dehra.

9. Dr. Pawan Kumar Sharm – Special Invitee
Department of Botany, School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Dehra.

Following Decision were taken in BOS meeting as per the Agenda.

Item BOT-BOS-1/18-1: Approval of Rules of Business for the Board of Studies.

It was unanimously resolved that the draft rules of Business for the Board of Studies presented before the Board of Studies approval as "Rules of Business for the Board of Studies" which would come into effect from this day i.e. Wednesday the 11th April, 2018. (Annexure- I)

Item BOT-BOS-1/18-2: Approval of Courses for PG and RD Program (As per the Ordinance 4 clause 4 b (i).

The BOS approved the minutes of the CDC, Botany held on 16.08.2017 **(Placed as ANNEXURE-A)** with minor amendment (s) by adding the following three practical courses of 04 credits each, respectively, for 3rd and 4th Semester students of M.Sc. Botany who have already been admitted in the University.

1. **Practical Course in Botany – I (Course code BOT-426) = 04 credits (Core-open)**
2. **Practical Course in Botany – II (Course code BOT-524) = 04 credits (Core-open)**
3. **M.Sc Dissertation (Course code BOT-599) (Core-compulsory)**

The BOS also resolved that the course, namely, Genetics & Cytogenetics (BOT -505) which has been listed as a core-compulsory course in the CDC minutes be shifted and placed as a Core-open course. The BOS further approved that the course curriculum for M.Sc. Botany, in future shall be as per UGC choice based credit system (CBCS). Accordingly, the BOS recommends for approval to the School Board the course curriculum as placed at **ANNEXURE-II (to be approved through email).**

Item BOT-BOS-1/18-3: Approval of Supervisors

BOS members recommend taking up this agenda once the Department will have research scholar.

Item BOT-BOS-1/18-4: List of Experts Approved. (Annexure- V)

Head Department of Botany in consultation with the concern faculty members may add any other name to this list depending upon the situation as per need.

Item BOT-BOS-1/18-5: Approval of Student's Industrial Training / Education Tours

It was unanimously resolved that Students may go for Industrial Training in different Institutes and Educational Tours.

Item BOT-BOS-1/18-6: Invited Talks/Lectures

Unanimously resolved that Scientists, Professors and Eminent Scholars in the field of Botany should be invited for delivering talks for the benefit of M.Sc. students.

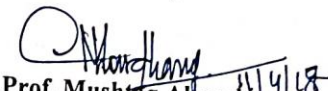The meeting ended with a vote of thanks to the Chair.

Ms. Nivedita Rana,
(Special Invitee)
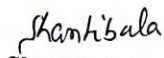
Dr. Vivek Sharma,
(Special Invitee)

Dr. Shalini Chandel
(Special Invitee)

Dr. Pawan Kumar Sharma
(Special Invitee)

Dr. Vikram Singh
(VC's Nominee)

Prof. Mushtaq Ahmed
(VC's Nominee)

Dr. Arvind Bhatt
(Subject Expert)

Prof. G.A. Shantibala Devi
(Subject Expert)

Prof. A.K. Mahajan
Chairman & Convener

Semester	Credits	Core- Compulsory	Credits	Faculty	Credits	Core- Open/Elective open	Credits	Faculty
I	16	BOT 503 – Phycology	2					
		BOT 504 – Bryophytes and Pteridophytes	2					
		BOT 506 – Gymnosperms — changed to BoTS56A as 2 Introduction to Gymnosperm						
		BOT 410 - Mycology and Plant Pathology	4					
		BOT 514 – Cytogenetics and Molecular Biology	2					
		BOT 412 - Practical Course on Bryophytes, Pteridophytes and Gymnosperms	2					
		BOT 413 - Practical Course on Phycology, Mycology, Plant Pathology and Biology	2					
II	12	BOT 416 – Embryology of Angiosperms	2		4	BOT 524 - Biostatistics	2	
		BOT 415 – Plant Physiology and Biochemistry	4			BOT 574 – Basics of Bioinformatics	2	
		BOT 411 – Ecology and Environment	2			BOT 403 -Phytochemistry	2	
		BOT 417 – Practical Course on Embryology of Angiosperms, Ecology	2			BOT 575 – Cell Biology	2	
		BOT 418 – Practical Course on Plant Physiology and Biochemistry	2			BOT 401- Paleobotany	2	
III	4	BOT 419 – Anatomy and Development of Plants	2		4	BOT 572 - Methods in Field Biology and Analytical Techniques	2	
						BOT 565 -Applied and Industrial Microbiology	2	
		BOT 420 – Practical Course on Anatomy of Plants	2			BOT 519 - Plant Biodiversity and Bioresource Utilization	2	
						BOT 520 - Bio-resources and Biotechnology	2	
						BOT 578- Genomics, Proteomics and Metabolomics	2	
						BOT 577 -Economic Botany and Medicinal Plants	2	
IV	8	BOT 414 – Taxonomy of Angiosperms	2		4	BOT 576- Genetics	2	
						BOT 407 - Ecological Modelling	2	
		BOT 514 – Practical Course on Cytogenetics Molecular Biology, Microbiology	2			BOT 404- Horticulture and Forestry	2	
						BOT 576 –Biosafety, IPR and Patentng	2	
		BOT 515 – M.Sc dissertation	4			BOT 402 -Ethanobotany	2	
						BOT 573 - Seed Biology	2	

Semester	Credits	Elective (Specialization)	Credits		Semester	Credits	Elective (Specialization)	Credits	Faculty
III	8	BOT 516 – Genetics and Molecular Biology	4		IV	8	BOT 525 -Plant Biotechnology and Genetic Engineering	4	
		BOT 515 – Microbiology and Plant Pathology	4				BOT 564- Plant Protection and Quarantine	4	
		BOT 518 – Plant Ecology and Evolution	4				BOT 527- Plant Biodiversity and Biosystematics	4	
		BOT 121 - Plant Physiology	4						

approved by circulation.

21/6/18

It is now requested to kindly give your...

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