



Chowgule Education Society's
Parvatibai Chowgule College of Arts and Science
(Autonomous)

Accredited by NAAC with Grade 'A+'
Best Affiliated College-Goa University Silver Jubilee Year Award



F.133(C)/120

**Minutes of the Eleventh meeting of the Board of Studies (BoS) in Biotechnology on
21st April, 2023 at 02:00 pm**

Vide Chowgule College notice F.133(C)/95 (dated 15th April 2023) Eleventh meeting of the BoS in Biotechnology was convened on 21st April, 2023 at 02:00 pm through Google meet (link: <https://meet.google.com/ykg-upzh-nxb>).

Since the number of members present represented the Quorum, the BoS began its proceedings. Minutes are presented in the format.

Members present:

1. Dr. Starlaine Mascarenhas – Chairperson
2. Prof. Srikanth Mutnuri – VC Nominee
3. Prof. Meenal Kowshik – AC Nominee
4. Dr. Flory Pereira – AC Nominee
5. Dr. Tamal Raha – Industrial Representative
6. Dr. Shaiesh Morajkar – Member Secretary
7. Dr. R. Kanchana – Member
8. Dr. Roshan Naik – Member
9. Ms. Inoska Mendes – Member
10. Mr. Atharva Karde- Alumni student representative

Proceedings

The Chairperson welcomed members of Board of Studies (BoS), explained the agenda for the meeting and the Board transacted the following business:

Agenda Items:

- a) To appraise the proposed course structure for UG programmes as per the UGC guidelines based on NEP 2020.
- b) To approve the list of courses under the nomenclatures: Core (Major & Minor), Skill enhancement course (SEC), Multidisciplinary course (MDC).
- c) To approve the syllabi of semester I & II Major-Minor courses under the new course structure.
- d) To approve the syllabi of the following semester III, VII and VIII Minor courses respectively under the new course structure:
 - i. Metabolism of Biomolecules
 - ii. Human Physiology

- iii. Entrepreneurship
- e) To approve the syllabi of the following Vocational Courses (VOC's) in semesters IV,V and VI respectively as per the new course structure:
 - i. Evolution and Anthropology (UG-BIO-VOC1)
 - ii. Bioethics and Biosafety (UG-BIO-VOC2)
 - iii. Advanced Cell biology (UG-BIO-VOC3)
- f) To approve the syllabi of the following three new Skill Enhancement Courses(SEC's) as per the new course structure:
 - i. Mushroom cultivation (UG-BIO-SEC1)
 - ii. Elementary tools for visualisation of biological data (UG-BIO-SEC2)
 - iii. Biostatistics (UG-BIO-SEC3)
- g) To approve the syllabi of the following three new Multidisciplinary Courses (MDC's) as per the new course structure:
 - i. Food and Fermentation technology (UG-BIO-MDC1)
 - ii. Biodiversity (UG-BIO-MDC2)
 - iii. Composting technology (UG-BIO-MDC3)
- h) To approve revision of the syllabus for the practical component of the following courses: 'BIO-VI.C-8B:Industrial Biotechnology', 'BIO-E-13: Food Biotechnology' and 'BIO-V.C-7: Concepts In Genetic Engineering'.
- i) Appointment of a new BoS member.
- j) Any Other Business (A.O.B.)

The Chairperson introduced the new members namely Ms. Inoska Mendes and Mr. Atharva Karde as faculty member and alumni student representative respectively of the BoS to the other members of the board.

PART A: Resolutions

The meeting began with introducing the agenda of the meeting. Owing to the change in mode of conduct of the meeting from offline to online due to the inability of majority of the external members to be present for the same, the Chairperson sought permission to discuss agenda item no.- 'd', 'e' and 'h' in subsequent BoS meetings, to which all members consented unanimously.

1. The Chairperson appraised the members of the approved course structure for UG programmes as per UGC guidelines based on NEP 2020. She then placed the outline of the list of courses to be offered under the following nomenclatures: Core (Major & Minor), Vocational courses (Voc), Skill enhancement course (SEC) and Multidisciplinary course (MDC) for scrutiny, inputs and suggestions. The members expressed appreciation for the aforementioned proposed course structure outline and approved the same (Annexure I).

2. The Chairperson then sought approval for the following course syllabi to be offered in semesters I and II (Annexure II):

- a) Syllabi of Major courses in semester I and II viz. 'Biomolecules (UG-BIO-101)' and 'Basic Microbiology (UG-BIO-103)' respectively and Minor courses in semester I and II viz. 'Cell biology (UG-BIO-102)' and 'Fundamental Genetics (UG-BIO-104)' respectively
- b) SEC's in semesters I and II viz. 'Mushroom cultivation (UG-BIO-SEC1)' and 'Elementary tools for visualisation of biological data (UG-BIO-SEC2)' respectively.
- c) MDC's in semesters I and II viz. 'Food and Fermentation technology (UG-BIO-MDC1)' and 'Basics of Biodiversity (UG-BIO-MDC2)' respectively.

The BoS members approved the syllabi for the aforementioned semester I and II courses. Additionally, a minor revision in the title of the proposed MDC in semester 2 from 'Biodiversity' to 'Basics of Biodiversity (UG-BIO-MDC2)', was suggested and later incorporated.

PART B: Resolutions/ Recommendations of BoS that require consideration/ approval of Academic Council:

The minutes of the 11th BoS meeting for the B.Sc. Biotechnology programme has been approved by all BoS members and now it's been placed before the Academic Council for approval as follows:

- a) Outline of the list of courses to be offered under the following nomenclatures: Core (Major & Minor), Vocational courses (Voc), Skill enhancement course (SEC) and Multidisciplinary course (MDC) (**Annexure I**).
- b) Approval of syllabi of the following semester I and II courses (**Annexure II**):
 - Major courses: 'Biomolecules (UG-BIO-101)' and 'Basic Microbiology (UG-BIO-103)'.
 - Minor courses: 'Cell biology (UG-BIO-102)' and 'Fundamental Genetics (UG-BIO-104)'.
 - SEC's: 'Mushroom cultivation (UG-BIO-SEC1)' and 'Elementary tools for visualisation of biological data (UG-BIO-SEC2)'.
 - MDC's: 'Food and Fermentation technology (UG-BIO-MDC1)' and 'Basics of Biodiversity (UG-BIO-MDC2)'.

The Chairperson thanked the members of Board of Studies in Biotechnology for their valuable contributions and suggestions. The meeting ended at 03:00 pm on 21st April 2023.

The following members were present for the BoS meeting:

1. Dr. Starlaine Mascarenhas – Chairperson
2. Prof. Srikanth Mutnuri – VC Nominee
3. Prof. Meenal Kowshik – AC Nominee
4. Dr. Flory Pereira – AC Nominee
5. Dr. Tamal Raha – Industrial Representative
6. Dr. Shaiesh Morajkar – Member Secretary

7. Dr. R. Kanchana – Member
8. Dr. Roshan Naik – Member
9. Ms. Inoska Mendes – Member
10. Mr. Atharva Karde- Alumni student representative

Date: 21st April 2023



Dr. Starlaine Mascarenhas
(Chairperson)



Dr. Shaiesh Morajkar
(Member Secretary)

PART C: The remarks of the Dean of the Faculty:

1. The minutes are in order
2. The minutes may be placed before the Academic Council with remark, if any.
3. Important points of the minutes which need clear policy decision of the Academic Council to be recorded.

Date: 25th April 2023.



Signature of the Dean
(Faculty of Science)

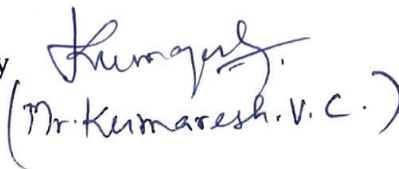
Dr. Meghana S. Desai

PART D: The remarks of the Member Secretary of the Academic Council:

1. The minutes are in order
2. The minutes may be placed before the Academic Council with remark, if any.
3. Important points of the minutes which need clear policy decision of the Academic Council to be recorded.

Date: 26.04.2023

Signature of the Member Secretary
(Academic Council)



(Dr. Kumaresh V. C.)