

**PARVATIBAI CHOWGULE COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS) MARGAO – GOA**

**MINUTES OF THE FOURTH MEETING OF THE BOARD OF STUDIES IN
BIOTECHNOLOGY HELD IN THE COLLEGE ON 5th DECEMBER, 2017 AT 11 AM**

Vide Chowgule College notice (F.133 C /1324 dated 17.11. 2017) fourth meeting of the BoS was convened on 5th December 2017 at 11.00 a.m. in G Block, Room No 201, Parvatibai Chowgule College of Arts & Science, Autonomous, Margao – Goa. Since the number of members present represented the Quorum, the BoS began its proceedings.

Minutes are presented in the format.

Members present:

- | | |
|----------------------------|-------------------|
| 1. Dr. R. Kanchana | -Chairperson |
| 2. Dr. Meenal Kowshik | -AC Nominee |
| 3. Dr. Sunita Borkar | -AC Nominee |
| 4. Prof. Savita Kerkar | -VC Nominee |
| 5. Ms. Madhavi M. Motankar | -Member |
| 6. Ms. Vallanka A. V. Dias | -Member |
| 7. Ms. Bhavya Bhat | -Member |
| 8. Ms. Liesl De Silva | -Member Secretary |

Members absent - Nil

Proceedings

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

Agenda Items:

1. To approve the revision of courses of Under-Graduate Programme in Biotechnology to be implemented for the academic year 2018-19
2. To approve the syllabus of inter disciplinary course
3. Any Other Business (A.O.B.)

PART A: RESOLUTIONS

A discussion was held on the revision of some of the core and elective courses for the undergraduate programme in Biotechnology. The BoS then approved the syllabi following minor changes and suggestions. The redrafted syllabus is presented in Annexure I and the details are as follows:

- i. In semester I, the proposed course title on “Molecules of Life” was re-titled as “Biomolecules”. Additionally, the existing syllabi of “Fundamentals of Biochemistry” and “Advanced Biochemistry” have been revised and re-named as “Biomolecules” (BIO-I.C-1) and “Metabolism of Biomolecules” (BIO-III.E-2) to circumvent the repeated use of terminology basic/fundamental/advanced.
- ii. The course on “Cell and Molecular Biology” (BIO-II.C-4) has been split into individual courses on “Cell Biology” (BIO-I.C-2) and “Molecular Biology” (BIO-III.C-5) based on the recommendation of the previous BoS.
- iii. “Basic Microbiology” (BIO-II.C-4) is now included as a core course in Semester II rather than Semester I so that students can put to practice the skills developed through this course, which might be essential during the internship period.
- iv. The core course on “Immunology” (BIO-IV.C-6) and elective courses on “Evolution and Anthropology” (BIO-IV.E-7) and “Molecular Genetics” (BIO-IV.E-8) which were previously included in Semester III, have been included in Semester IV. In place of the above mentioned papers “Molecular Biology” (core course), “Metabolism of Biomolecules” (BIO-III.E-2) and “Enzymology” (BIO-III.E-4) as elective courses are now a part of semester III. The courses have been reshuffled to accommodate Molecular Biology as a core paper and in the revised syllabus.
- v. The core course on “Concepts in Genetic Engineering” (BIO-V.C-7) which was previously included in Semester IV, has been included in Semester V in the revised syllabus. The terminology of an elective course “Applied Biophysics” has been replaced by “Tools and Techniques in Biotechnology” (BIO-IV.E-6) with minor changes in the course content. The course on “Ecology and Biodiversity” has been excluded from the revised syllabus, as the students already have a foundation course on environmental studies and also the revised curriculum includes a course on Environmental Biotechnology.
- vi. In Semester V of the existing syllabus, the core course on “Industrial Biotechnology-Basic” has been replaced by “Concepts in Genetic Engineering” in the revised

syllabus. Similarly, the elective course on “Introduction to Drug Development” has been replaced by “Plant Biotechnology” (BIO-V.E-11) as the members of BoS felt that the former course is more suitable for post graduation programme.

- vii. In Semester VI, the core course on “Bioethics and Biosafety” (existing syllabus) has been made an elective course (BIO-VI.E-13) (revised syllabus). Also, the two courses on Industrial Biotechnology have been merged to create a core course on “Industrial Biotechnology” (BIO-VI.C-8). The elective course on “Advanced Microbiology” has been renamed as “Food Biotechnology” (BIO-VI.E-15) with minor changes in course content in the revised syllabus and new course on “Advanced Cell Biology” (BIO-VI.E-14) has been introduced as per the need for facing competitive exams.
- The syllabus of inter disciplinary course has been approved by the BoS and is presented in Annexure II.

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

The BoS approved the revised courses as presented in Annexure I.

The BoS approved the syllabus of inter disciplinary course as presented in Annexure II.

The minutes of the meeting along with the approved course syllabi will be circulated to all the BoS members by e-mail prior to placing before the Academic Council.

The Chairperson thanked the members of Board of Studies in Biotechnology for their valuable contributions and suggestions.


The meeting ended at 3.30 pm on 5^h December, 2017.

The following members of the Board of Studies in Biotechnology were present at the meeting:

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|------------------------|--------------|
| 1. Dr. R. Kanchana | -Chairperson |
| 2. Dr. Meenal Kowshik | -AC Nominee |
| 3. Dr. Sunita Borkar | -AC Nominee |
| 4. Prof. Savita Kerkar | -VC Nominee |

- | | |
|----------------------------|-------------------|
| 5. Ms. Madhavi M. Motankar | -Member |
| 6. Ms. Vallanka A. V. Dias | -Member |
| 7. Ms. Bhavya Bhat | -Member |
| 8. Ms. Liesl De Silva | -Member Secretary |

Date: 12th December, 2017



Ms. Liesl De Silva
Member Secretary
BoS (Biotechnology)

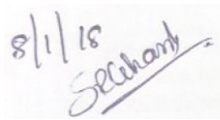


Dr. R. Kanchana
Chairperson
BoS (Biotechnology)

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

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

Date:



Signature of the Dean:

(Faculty of Science)

Following revisions of the courses were proposed and the same was approved by the BoS members:

Semester	Present courses	Revised courses
I	Basic Microbiology (BIO-I.C-1) Fundamentals of Biochemistry (BIO-I.C-2)	Molecules of life (BIO-I.C-1) Cell Biology (BIO-I.C-2)
II	Fundamental Genetics (BIO-II.C-3) Cell and Molecular Biology (BIO-II.C-4)	Fundamental Genetics (BIO-II.C-3) Basic Microbiology (BIO-II.C-4)
III	Immunology (BIO-III.C-5) Molecular Genetics (BIO-III.E-2) Evolution and Anthropology (BIO-III.E-4)	Molecular Biology (BIO-III.C-5) Metabolism of Biomolecules (BIO-III.E-2) Enzymology (BIO-III.E-4)
IV	Concepts in Genetic Engineering (BIO-IV.C-6) Applied Biophysics (BIO-IV.E-6) Ecology and Biodiversity (BIO-IV.E-7) Advanced Biochemistry (BIO-IV.E-8)	Immunology (BIO-IV.C-6) Tools & Techniques in Biotechnology (BIO-IV.E-6) Evolution and Anthropology (BIO-IV.E-7) Molecular genetics (BIO-IV.E-8)
V	Industrial Biotechnology – Basic (BIO-V.C-7) Introduction to Drug Development (BIO-V.E-11)	Concepts in Genetic Engineering Basic (BIO-V.C-7) Plant Biotechnology (BIO-V.E-11)
VI	Bioethics and Biosafety (BIO-VI.C-8) Advanced Microbiology (BIO-VI.E-13) Industrial Biotechnology – Advanced (BIO-VI.E-14) Plant Biotechnology (BIO-VI.E-15)	Industrial Biotechnology (BIO-VI.C-8) Bioethics and Bio-safety (BIO-VI.E-13) Advanced Cell Biology (BIO-VI.E-14) Food Biotechnology (BIO-VI.E-15)