

**PROCEEDINGS OF THE BOARD OF STUDIES MEETING (UG & PG) IN  
BIOTECHNOLOGY**

Ref: No. ಮಂವಿ/ಕು.ಸ/ಸಿಂಡಿ(ಎಸ್3)/38/2021-6862 ದಿನಾಂಕ 29.06.2021.

The BOS (UG & PG) meeting in Biotechnology was held on 21<sup>st</sup> September 2021 in the Dept. of Biosciences, Mangalore University

**Members Present:**

- |                                |                     |
|--------------------------------|---------------------|
| 1. Prof. V. Shyam Kumar        | -Member (External)  |
| 2. Prof. Ramachandra Y.L.      | - Member (External) |
| 3. Prof. Chandrakala Shenoy K. | - Member            |
| 4. Prof. K. Bhasker Shenoy     | -Member             |
| 5. Dr. Raghavendra Rao B.      | -Member             |
| 6. Dr. Siddaraju M.N.          | -Member             |
| 7. Prof. Monika Sadananda      | - Chairperson       |

Chairperson welcomed the members and presented the agenda.

**Agenda discussed:**

1. Preparation of panel of Examiners (UG, PG and PhD).
2. Assessment of previous year's question papers and results (UG, M.Sc. and Ph. D).
3. **Revision of Syllabus (PhD and PG)**
4. PhD guide recognition
  - a. Dr. Manoj Godbole, Department of Biotechnology, SDM College, Ujire (Ref: Letter No. MU/ACC/RG/CR.89/2020-21/A3 dt.20.09.2020)
  - b. Dr. Maruthi K.R, Department of Botany, SDM College, Ujire (Ref: Letter No. MU/ACC/RG/CR.89/2020-21/A3 dt. 28.09.2020 and 08.09.2021)
  - c. Dr. Jiji George, Department of Biotechnology, St Aloysius College, Mangalore (Ref: Letter No. MU/ACC/RG/CR-14 /2020-21/A3 dt.12.08.2021)
  - d. Dr. Santhosh Wilson Goveas, Department of Biotechnology, St Aloysius College, Mangalore (Ref: Letter No. MU/ACC/RG/CR-15 /2020-21/A3 dt.12.08.2021)
  - e. Dr. Shrisha Naik Bajpe, Department of Botany, SDM College, Ujire (Ref: Letter No. MU/ACC/RG/CR.39/2020-21/A3 dt.08.09.2021)
5. Eligibility for MSc Bioinformatics
6. Stakeholder feedback on syllabus/curriculum
7. New courses
8. Course focusing on employability, skill development and entrepreneurship
9. Value added Courses
10. Any other matter referred by the University.

**Decision:**

1. The panels of UG, PG and PhD examiners in Biotechnology were updated based on the suggestions of the members and were approved.

2. Question papers of UG, PG and PhD examinations in Biotechnology held during 2019-20 have been scrutinized and were found in order. The results (PG I and III Semester) were found to be satisfactory.

3. **Syllabus revision:**

i) In keeping with UGC's directive a 2-credit Course on Research and Publication Ethics has been introduced as Course 2. Some overlapping components pertaining to Research and Publication ethics were removed from Unit I of Course 1 that is Research Methodology. The same was approved by the BoS.

ii) The MSc Biotechnology syllabus was scrutinized thoroughly and is being submitted along with minor revisions. New soft core courses were proposed.

iii) **New courses introduced:**

Research Methodology and Bioinformatics

Biotechnology Entrepreneurship

iv) **Inclusion / Removal of Courses / Units**

Existing	Modified	Justification
BSS 453 Bioprocess Technology Transport phenomenon in bioprocesses- mass transfer, Mass transfer co-efficient for gases and liquids, oxygen transfer co-efficient, biological heat transfer and heat transfer coefficients.	BSS 453 Bioprocess Technology Transport phenomenon in bioprocesses- mass transfer, biological heat transfer and heat transfer coefficients.	Removed as it is redundant
BTS 504 Bioinformatics and Biostatistics	BTS 504 Research Methodology and Biostatistics	Added components of Research Methodology as it is needed in the Biotech industry
BTS 553 Regulations and IPR	BTS 553 Biotechnology Entrepreneurship	Added basic concepts of finance, entrepreneurship to provide exposure to entrepreneurial opportunities

v) **Overall percentage of syllabus revision: 20%**

4. Under the agenda of recognition of PhD guides, the following applications referred by the University for research guideship in Biotechnology were scrutinized:

a) Dr. Manoj Godbole, Department of Biotechnology, SDM College, Ujire (Ref: Letter No. MU/ACC/RG/CR.89/2020-21/A3 dt.20.09.2020)

Decision: As per University regulation 9.4, there is no evidence of Dr. Godbole's independent research after PhD degree from publications in refereed/reputed journals.

b) Dr. Maruthi K.R, Department of Botany, SDM College, Ujire (Ref: Letter No. MU/ACC/RG/CR.89/2020-21/A3 dt. 28.09.2020 and 08.09.2021)

Decision: Recommended for guideship in PhD Biotechnology as Dr. Maruthi has more than three years of independent research experience as evidenced by publications in refereed/reputed journals as per University regulation 9.4

- c) Dr. Jiji George, Department of Biotechnology, St Aloysius College, Mangalore (Ref: Letter No. MU/ACC/RG/CR-14 /2020-21/A3 dt.12.08.2021)  
Decision: As per University regulation 9.4, there is no evidence of Dr. George's independent research after PhD degree from publications in refereed/reputed journals.
- d) Dr. Santhosh Wilson Goveas, Department of Biotechnology, St Aloysius College, Mangalore (Ref: Letter No. MU/ACC/RG/CR-15 /2020-21/A3 dt.12.08.2021)  
Decision: As per University regulation 9.4, there is no evidence of Dr. Goveas's independent research after PhD degree from publications in refereed/reputed journals.
- e) Dr. Shrisha Naik Bajpe, Department of Botany, SDM College, Ujire (Ref: Letter No. MU/ACC/RG/CR.39/2020-21/A3 dt.08.09.2021)  
Decision: As per University regulation 9.4, there is no evidence of Dr. Shrisha Naik Bajpe's independent research after PhD degree from publications in refereed/reputed journals.

5. The Eligibility for MSc Bioinformatics has been relaxed to enable admissions as follows:

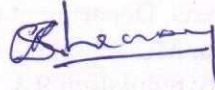
Existing Eligibility Criteria	Revised Eligibility Criteria
Candidates who have passed the three-year B.Sc degree examination of Mangalore University or any other University considered as equivalent there to are eligible for the programme with a minimum of 50%(45% SC/ST. Category-I candidates) in aggregate excluding languages and Group III subjects provided they have studied Chemistry/Biology either at the degree level or least at Pre-University.	Pass in BSc (any discipline of sciences)/BSc Voc (Pharmaceutical chemistry)/BPharm/PharmD/ MBBS/BDS/BAMS/BHMS/BE or BTech (Computer Science/Biomedical/Electronics/Biotechnology or related Engineering Sciences) from a recognized University with a minimum of 50% aggregate marks or equivalent (45% SC/ST/Category-I candidates) in aggregate excluding language and Group III subjects provided they have studied Chemistry/Biology either at the degree level or least at Pre-University level.

6. The BoS was informed that IQAC obtains Stakeholder feedback on syllabus/curriculum towards which an ATR is to be submitted.
7. New courses – As UG Biotechnology program structure and syllabus is to be drafted by the Govt. of Karnataka as per NEP 2020 for due implementation in all colleges, it was decided to take up the matter of syllabus tweaking in the next BoS.
8. Course focusing on employability, skill development and entrepreneurship were mapped. Courses relating to gender issues, sustainable development and professional ethics were mapped.
9. Value added Courses on Coconut tissue culture, Applications of radiation, Mushroom cultivation and Small laboratory animal maintenance were approved.

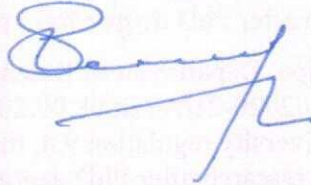
10. Any other matter referred by the University - As no other matter was referred by the University, the meeting was concluded with vote of thanks.

**Signature of BOS Members**

Prof. Chandrakala Shenoy K.



Prof. K. Bhasker Shenoy



Dr. Raghavendra Rao B.  
Dr. Siddaraju M.N.  
Prof. V. Shyam Kumar  
Prof. Ramachandra Y. L.

Were present online via google meet

*Prof. Monika Sadananda* 20/9/2021

Prof. Monika Sadananda

Chairperson, BOS (UG & PG) in Biotechnology

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