

# **SETHU INSTITUTE OF TECHNOLOGY**

*(An Autonomous Institution)*



*Estd : 1995*

## **MINUTES OF THE MEETING Board of Studies of Biotechnology**

Pulloor, Kariapatti – 626 115, Virudhunagar District

Phone No. : **04566 – 308001**, 4 Fax : **04566 – 308006**

Email id : **principal@sethu.ac.in**, website : **www.sethu.ac.in**

**SETHU INSTITUTE OF TECHNOLOGY, PULLOOR, KARIAPATTI – 626115**

**1<sup>st</sup> MEETING OF BOARD OF STUDIES**

**DEPARTMENT OF BIOTECHNOLOGY**

**HELD ON 15.10.2020**

**MINUTES OF MEETING**

The First Meeting of Board of Studies in the Department of Biotechnology held on 15.10.2020 at the Department Seminar Hall at Sethu Institute of Technology, Pulloor, Kariapatti.

S. No	Name	Designation	Status
1.	Mrs.R.Nageshwari, M.Tech.,	Assistant Professor & HOD (i/c)/ Department of Biotechnology	Chairman
2.	Dr.V. Adaikkalam, Ph.D.,	Associate Professor Department of Biotechnology ACT campus Anna University, Chennai – 600 025	Anna University Nominee
3.	Dr.R.A. Nazeer, Ph.D.,	Professor and Head, Department of Biotechnology SRM Institute of Science & Technology, Kattankulathur – 603203	Academic External Expert Member
4.	Dr.ML. Stephen Raj, Ph.D.,	Sr. Professor & HoD Department of Biotechnology Mepco Schlenk Engineering College Sivakasi.	Academic External Expert Member
5.	Dr. K. Hemalatha, Ph.D.,	Dean – Academics & Professor/BME	Member
6.	Dr. R. Arangasamy, Ph.D.,	Dean, Professor & HoD/ BME	Member
7.	Dr.E.Maheshwran, Ph.D.,	Assistant Professor (Sr. Gr.)/BME	Member

The Agenda for the meeting is

1. To consider and recommend the revised Department Vision, Mission, PEOs, POs and PSOs of the UG Programme.
2. To present the analysis of the Stakeholders feedback regarding curriculum and syllabi
3. To present Mapping of Curriculum and syllabi with Programme Specific Criteria
4. To present the classification of courses having focus on employability/ entrepreneurship/ skill development

5. To consider and approve for the list of examiners from other colleges who could be invited for conducting practical examination/Project Viva, Question Paper Setting, Paper evaluation, Exam invigilation duties.
6. To consider and approve the value added courses imparting transferable and life skills (beyond curriculum and with 30 or more contact hours)
7. To approve the list of Courses under Regulation 2019 for the biotechnology department and approve the suggestions for improving the R2019 curriculum structure.

The Chairman welcomed the members and presented as per the agenda given above for the Curriculum under Regulation 2019 and Syllabi for first two semesters which is to be followed from 2019-20 batch under Autonomous Regulation for B.Tech. Biotechnology.

**1. Consider and recommend the proposed Department Vision, Mission, PEOs, POs and PSOs**

The Vision, Mission, PEOs, POs and PSOs of the B.Tech. Biotechnology Programme are discussed.

- 1.1 The BOS resolved to approve the Vision, Mission, PEOs, POs
- 1.2 The BOS resolved to modify the PSO, the modified PSO is "Analyze, design and develop the systems to supplement and/ or assist human healthcare"

**2. Analysis of Stakeholders feedback regarding curriculum and syllabi.**

The stakeholders' feedback was obtained regarding curricula and syllabi in various formats and sources. The stakeholder's feedbacks and their suggestions are presented and discussed thoroughly. Based on their suggestions and following resolutions are made

- 2.1 The BOS resolved to modify the proposed course title Biochemistry as Principles of Biochemistry (19UBT206)
- 2.2 The BOS resolved to include a new core course Artificial intelligence in Biotechnology (19BT701) in the seventh semester.

**3. Mapping of Curriculum and syllabi with Programme Specific Criteria**

Mapping of curriculum components with PEOs, POs and Programme Specific Criteria is presented and discussed.

- 3.1 The BoS resolved to approve and recommend the mapping of curriculum components with PEOs , POs and Program specific criteria

**4. Classification of courses having focus on Employability/ Entrepreneurship/ Skill development.**

The categorization of courses in curriculum R2019 based on the employability/ entrepreneurship/ skill development is presented and discussed in detail



- 4.1 The BoS resolved to approve the classification of R2019 courses which focus on employability/ entrepreneurship/ skill development

5. **Approval for the list of examiners from other colleges who could be invited for conducting practical examination/Project Viva, Question Paper Setting, Paper evaluation, Exam invigilation duties.**

The list of examiners is identified from other colleges for conducting practical examination/Project Viva, Question Paper Setting, Paper evaluation, and Exam invigilation duties.

- 5.1 The BoS resolved to approve the list of examiners proposed by the Chairperson

6. **Approval of value added courses imparting transferable and life skills**

The chairman has presented the list of value added courses beyond curriculum and with 30 or more contact hours.

- 6.1 The BoS recommended to introduce the following value added courses

- Artificial neural networks and its application
- Design of experiments
- Fundamentals of cloud computing
- PHP programming
- MEMS Sensors and Actuators

7. **To approve the list of New Courses under Regulation 2019 for B.Tech Biotechnology and approve the suggestions for improving the R2019 curriculum**

The List of Courses included under Regulation 2019 is presented and discussed

- 7.1 The BOS resolved to introduce the following core courses in the curriculum:

- 19UBT206 – Principles of Biochemistry
- 19UBT305 - Principles of Genetics
- 19UBT403 - Molecular Biology
- 19UBT701 - Biological Data Analysis

- 7.2 The BOS resolved to introduce the following elective courses in the curriculum:

- 19UBT903 - Biological Spectroscopy
- 19UBT908 - Medical laboratory Technology
- 19UBT910 - Transport Phenomena
- 19UBT915 - Rehabilitation Engineering and Robotics
- 19UBT918 - Preclinical and Clinical Regulatory affairs
- 19UBT921 - Smart Healthcare Engineering and Artificial Intelligence
- 19UBT922 - Body Area Networks and Mobile Healthcare
- 19UBT923 - Regenerative Medicine and Ergonomics

- 7.3 The BOS resolved to introduce the following skill and knowledge enhancement courses in the curriculum:

- Interpersonal Skills Laboratory
- 19UGM331 - Technical Seminar
- 19UGM531 - Creative Thinking and Innovation
- 19UGM232 - Summer Internship

7.4 The BOS resolved to introduce the following Mandatory courses in the curriculum:

- 19UGM131 - Induction Program
- 19UGM331- Biology for Engineers
- 19UGM431 - Gender Equality
- 19UGM631 - Indian Constitution and Essence of Indian Traditional Knowledge

7.5 The BOS resolved to introduce the following one credit courses in the curriculum:

- 19UBT869 - Occupational Emergency Care
- 19UBT870 - Intellectual Property Rights
- 19UBT871 - Entrepreneurship in Biotechnology
- 19UBT872 - Troubleshooting and Quality Control in Medical Equipments
- 19UBT873 - Regulation Perspective of Medical Research
- 19UBT874 - Introduction to Fuzzy Logic and Genetic Algorithms
- 19UBT875 - Numerical methods for Biotechnology

7.6 The proposed syllabi for II semester professional core courses offered by the department are presented and discussed. The BOS resolved to modify the syllabus of the following courses in Semester – II

- The BoS resolved to approve the syllabus proposed for Principles of Biochemistry, Microbiology and Biochemistry Laboratory.
- It is resolved to remove the experiments related to the protein estimation in the laboratory course 19UBT211 – Biochemistry Laboratory.

7.7 The following general suggestions are given by the members which will be taken in to account while framing the higher semester syllabi.

- The latest edition of the text book shall be included in syllabus
- Practical components shall be included for elective courses and case study shall be included in each courses.

8.1 The percentage change in the proposed syllabi for II semester professional core courses offered by the department are presented and discussed. The BOS resolved to approve the changes listed below:

Semester	Course code	Name of the Course	% Change in Syllabus
II	19UBT206	Principles of Biochemistry	65 %
	19UBT205	Microbiology	60 %
	19UBT211	Biochemistry Laboratory	50 %

  
23/10/2020

**Chairman**  
**Board of Studies**





Estd. 1995

**SETHU INSTITUTE OF TECHNOLOGY**  
Pulloor, Kariapatti – 626 115  
**DEPARTMENT OF BIOTECHNOLOGY**

**BOARD OF STUDIES MEETING HELD ON 15.10.2020**

**ACTION TAKEN REPORT**

S.No.	Faculty Name	Suggestions Given	Action Taken
	<b>Dr.V. Adaikkalam, Ph.D.,</b> Associate Professor Department of Biotechnology ACT campus Anna University, Chennai – 600 025 <b>(Member – Anna University)</b>	Suggested to modify the PSO of Biotechnology	PSO modified as per the suggestion.
		Suggested to reduce the content of the proposed syllabus of Biochemistry.	The Biochemistry syllabus was divided into 2 courses '19UBT206 - Principles of Biochemistry' and '19UBT306 - Biochemical Metabolism'
		Suggested to include specific text books for reference in 19UBT211 Biochemistry Laboratory.	The specific Text and Reference books were included
	<b>Dr.R.A. Nazeer, Ph.D.,</b> Professor and Head, Department of Biotechnology SRM Institute of Science & Technology, Kattankulathur – 603203 <b>(Academic Expert – External)</b>	Suggested to include the examples for clinically important microorganisms in the course 19UBT205 - Microbiology.	The examples for clinically important microorganisms was included in the module 3 of the course 19UBT205 - Microbiology.
		Suggested to include latest edition of the text book	Text and Reference books with latest edition was included
		Suggested to convert nucleic acid demo experiment into doing experiment in Biochemistry lab.	Nucleic acid demo experiment is converted into doing experiment in the Biochemistry Lab
		Suggested to include PERL programming for biologists	Shall be included as one credit course
	<b>Dr.ML. Stephen Raj, Ph.D.,</b> Sr. Professor & HoD Department of Biotechnology Mepco Schlenk Engineering College, Sivakasi. <b>(Academic Expert – External)</b>	Suggested to include the course 'Occupational Emergency Care Technology'	Shall be included in the one credit course 19UBT864 - Occupational Emergency Care Technology
		Suggested to introduce a course 'Regulation Perspective of Medical Research'.	Shall be introduced as elective course 19UBT871 - Regulation Perspective of Medical Research.
		Suggested to remove the experiments related to the protein estimation in the laboratory course Biochemistry Laboratory.	Experiments related to the protein estimation was removed in the Biochemistry Lab

for   
**HOD/BIOTECH**  
**Chairperson**  
Board of Studies  
Biotechnology  
Sethu Institute of Technology  
Kariapatti - 626 115