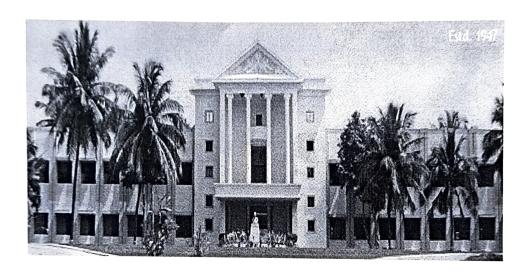


BACHELOR OF ENGINEERING

BIOTECHNOLOGY



Minutes of 5th BOS Meeting

Academic Year 2019-20

Bengued

REGISTRAR
KLE Technological Universit
HUBBALLI-580 031

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5th Board of Studies (BOS) Meeting of Biotechnology Engineering (UG) Programme 13th April 2019

MEETING AGENDA

- 1. Approval of Curriculum structure from III to VIII Semester of 2019-23 Batch
- 2. Approval of detailed content of III and IV semester courses of 2018-22 Batch
- 3. Approval of detailed content of V and VI semester courses of 2017-21 Batch
- 4. Approval of detailed content of VII and VIII semester courses of 2016-20 Batch

5. Any other subject related to syllabus.

Meeting Date: 13 - 04 - 2019

Time: 10.00 AM

Venue: H.O.D Chamber, Biotechnology Department

Chairman

Dr. Uday M. Muddapur

DEPT. OF BIOTECHNOLOGY

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Proceedings of the 5th Board of Studies (B. E. Biotechnology Programme) Meeting held on 13-04-2019 at the Department of Biotechnology.

Board of Studies met on 13-04-2019 to discuss the following agenda

- 1. Approval of Curriculum structure from III to VIII Semester of 2019-23

 Batch
- 2. Approval of detailed content of III and IV semester courses of 2018-22

 Batch
- 3. Approval of detailed content of V and VI semester courses of 2017-21

 Batch
- 4. Approval of detailed content of VII and VIII semester courses of 2016-20 Batch
- 5. Any other subject related to syllabus.

After the deliberate discussions the following decisions were made

- Approved the suggested Curriculum structure from III to VIII semester of 2019 - 23 Batch with no changes (Annexure-I)
- 2. Approved the detailed content of III and IV semester courses of 2018-22 Batch with some suggestions (Annexure-II)
- 3. Approved the detailed content of V and VI semester courses of 2017-21 Batch with some suggestions (Annexure-III)

4. Approved the detailed content of VII and VIII semester courses of 2016-20 Batch with some suggestions (Annexure-IV)

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Members present at the 5th B.O.S. Meeting dated 13th April 2019

Sl. No.	Name	Signature
1	Dr. Uday M. Muddapur, Professor and Head. Department of Biotechnology, K.L.E Technological University,	Cult
	Vidyanagar, Hubli – 580 031.	CHAIRMAN

2	Dr. Vijaysai P. Consulting Engineer SUEZ Water Technologies and	P. Cy
# # # # # # # # # # # # # # # # # # #	Solutions Whitefield, Bangalore-560066	MEMBER
3	Dr. K.S. Jagadeesh Professor (Agril. Microbiology) Dept of Forest Biology College of Forestry Sirsi-581 401	Absent
	01131-001 401	MEMBER
4	Dr. Rajyashree K. R. Chief Scientific officer Shilpa Medicare Pvt Ltd Incubation Centre K.L.E Technological University,	Rajyailn K. R
	Vidyanagar, Hubli – 580 031.	MEMBER
5	Dr. Sudeep Kumar Head-R&D,QC, QA and Manufacturing of recombinant therapeutic proteins, Unichem Laboratories Ltd, Goa-403511	Absert
6	Mr. Anand Hiremath Scientist –I/ Deputy Manager Aurozymes, Aurobindo Pharma, Hyderabad-500 084	MEMBER 13/04/

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DEPARTMENT OF BIOTECHNOLOGY			
7	Mr. Sai Srikar Kandukuri Deputy Manager, Biocon limted, Bangalore- 560 100	MEMBER	
8	Mr. Dinesh C. Goudar Manager, Manufacturing Science, Mylan Pharmaceuticals private limited Bangalore-560 087	MEMBER	
9	Dr. Basavaraj S. Hungund Professor, Department of Biotechnology, K.L.E. Technological University, Vidyanagar, Hubli – 580 031.	Bluggerd MEMBER	
10	Dr. L. R. Patil Associate Professor Department of Biotechnology, K.L.E. Technological University, Vidyanagar, Hubli – 580 031.	MEMBER	
11	Dr. S. V. Desai Associate Professor, Department of Biotechnology, K.L.E. Technological University, Vidyanagar, Hubli – 580 031.	BUNNAU MEMBER	
12	Prof. Anil R. Shet Assistant Professor, Department of Biotechnology, K.L.E. Technological University, Vidyanagar, Hubli – 580 031.	Janual MEMBER	
13	Miss Haripriya Student Department of Biotechnology K.L.E.Technological University, Vidyanagar, Hubli-580031	G. Harpije MEMBER	

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Department of Biotechnology

Recommendations of 5th Board of studies of KLE Technological University (Biotechnology) meeting held on 13/04/2019

Annexure-I

Agenda-1: Approval of Curriculum structure from III to VIII Semester of 2019-23 Batch.

• No changes were expressed by the BOS members

Annexure-II

Agenda-2: Approval of detailed content of III and IV semester courses of 2018-22 Batch

1. Microbiology:

The BOS members suggested to include "Microbes and human society, Microbial applications in agriculture, veterinary, healthcare, industry and environment" in microbiology course.

2. Microbiology Laboratory:

One new open ended experiment has been proposed in Microbiology laboratory. It was accepted by the BOS members with no changes.

3. Cell and Molecular Biology Laboratory:

One exercise experiment has been converted to open ended experiment. It was accepted by the BOS members with no changes.

Annexure-III

Agenda-3: Approval of detailed content of V and VI semester courses of 2017-21 Batch.

1. Genetic Engineering and applications:

The BOS members suggested to include "Ethical, Social, Economical and Political issues related to Gene modification and Genetic Engineering" in genetic engineering and applications course.

2. Genetic Engineering & Immunotechnology Laboratory:

Two exercise experiments are converted to structured enquiry experiments. It was accepted by the BOS members with no changes.

3. Research Methodology:

As per the suggestions of BOS members, the course content should include "author h-index and i10-index, awareness on predatory journals and its identification, grants and funding agencies for biotechnology research, Design of matrix and analysis, Contour plots and response surface plots, introduction to Artificial Intelligence and its application in biotechnology". The members also suggested to swap chapter 5 and 6 for proper flow of the course.

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4. Bioinformatics: With inputs from BOS members the course content of Bioinformatics course has been modified to include recent developments in Computational Biology. Subsequently credit weight age has been changed from 3 credits to 4 credits.

5. Bioprocess Control and automation:

The BOS members suggested including one chapter on multiple input and multiple output systems (MIMO systems) in Bioprocess control and automation course.

6. As per the inputs from the stake-holders (Alumni Feedback), new elective Bioprocess Modelling and Simulation was introduced at VI Semester.

Annexure-IV

Agenda-4: Approval of detailed content of VII and VIII semester courses of 2016-20 Batch. The following were the changes suggested by the BOS members

1. Plant and Animal Biotechnology:

The BOS members suggested to include "Ethical and Social issues related to development and release of transgenic plants with case studies – Bt Cotton" in plant and animal Biotechnology elective course.

8th Semester Courses

1. Industrial Waste Management: This new open elective has been proposed in 8th Semester to address civil and mechanical engineering students. This course was accepted by the BOS members with no changes.

Date: 13-04-2019

Chairman BOS