



MINUTES BOOK

Faculty of Science

Board of Studies : BIOTECHNOLOGY

Meeting of BOS Biotechnology

15/02/2021

Business

1. Suggestions and Approval for the changes made in the Syllabus of B.Sc. II, IV, VI Sem and M.Sc. II and IV Sem.
2. Approval for the changes made in odd Semester Papers
3. Conduction of practical missed out due to COVID-19 pandemic for odd semester.
4. How to conduct dissertation during pandemic.

(Meeting was conducted on Zoom)

A meeting of BOS in Biotechnology was held on 15/02/2021 at 11:00 am through Zoom platform.

Following members were present for this meeting.

- | | | |
|--------------------------|----------|---------------|
| 1. Dr. S. S. Kulkarni | Chairman | |
| 2. Miss M. A. Dhote | member | |
| 3. Mr. V. P. Sisdeshmukh | -11- | <i>Mamtha</i> |
| 4. Dr. R. B. Ade | -11- | |
| 5. Mr. S. S. Kshirsagar | -11- | <i>B. K.</i> |
| 6. Mr. S. D. Kadam | -11- | <i>Dr. S.</i> |



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MINUTES BOOK

**Faculty of Science
Board of Studies : BIOTECHNOLOGY**

7. Dr. V. V. Patil	-11-	V.V.P.
8. Miss S.R. Surwase	-11-	Surwase
9. Miss K.N. Dhule	-11-	K.Dhule
10. Miss C.V. Chavan	-11-	
11. Miss S.G. Swami	-11-	
12. Mr. A.J. Waghmare	-11-	Waghmare
13. Dr. Rajesh Jorgewad	Academic Council member	
14. Dr. Rajendra Patil	-11-	
15. Dr. Balan Ingole	Expert by V.C	
16. Mr. Abhay Desai	Industry Nominee	
17. Dr. Santosh Kalthate	Academic Council member	
18. Dr. Santosh Narwade	Research expert (PG Alumni)	
19. Mr. Bhairav Makude	Industry expert	
20. Dr. Rahul P. Bhagat	Academic Council member	
21. Dr. K. D. Sawant	Other members	

[Link : <https://us04web.zoom.us/j/752600467942> Pwd =
MESaZWJXZxhYMDNEOSgiencxyUwydzog]

Meeting ID: 75260046794

Passcode : 12345

Minutes of meeting

Agenda 1: The suggestions made in the BOS meeting dated 15/02/21 were accepted and approved by BOS members.



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MINUTES BOOK

Faculty of Science
Board of Studies : BIOTECHNOLOGY

Minor changes were suggested by BOS committee members in course titles Computational Biology, Animal Biotechnology, Genomic & proteomics, Biophysics and Bioinstrumentation.

The said changes were made by respected faculty members and kept in front of BOS members.

The changes were approved by BOS committee.

Agenda 2: Approval was given by BOS experts for the changes made in odd Semester papers.

Course title : Cell and Cancer Biology } PG Program
Biochemistry }

SEC of odd Semester B.Sc. BT. II - GLP

B.Sc. BT. III - Biofertilizer I

M.Sc. BT. I - RM & SRW

were replaced by NPTEL course due to COVID-19 Situation

For B.Sc. BT. II - Bioreactor course was conducted

B.Sc. BT. III - Biomedical Nanotechnology - II -

M.Sc. BT. I - Experimental Biotechnology was conducted

Agenda 3: Due to COVID-19 pandemic situation experts recommended to reduce number of practicals for current academic year



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MINUTES BOOK

Faculty of Science

Board of Studies : BIOTECHNOLOGY

(minimum 5 practicals for each paper)

Agenda 4 : Dr. Baban Ingole suggested to conduct dissertation in groups / Batches
He also suggested to conduct projects based on survey or by using bioinformatic tools, such as computer stimulation using model microorganisms.
He also suggested that for PG Program the emphasis should be given on Review type of work in pandemic situation

Dr. Abhay Desai suggested to recommend small crash courses / Training program to PG students, which will help to grab industrial opportunities.

Dr. Rajesh Gudmalwar, Dr. Santosh Kathwate, Dr. R.P. Bhagat, Dr. Santosh Narwade also supported the statements / comments of other experts



MINUTES BOOK

Faculty of Science
Board of Studies : BIOTECHNOLOGY

Meeting of BOS Biotechnology

28.07.2021

Business

1. Syllabus modification of B.Sc. BT I year and M.Sc. BT. I year (which will be implemented from academic year 2022-23)
2. Finalization of course structure
3. Any other subject with permission of the chair

A meeting of BOS in Biotechnology was held on 28.07.2021 at 2:00pm through zoom platform. Following members were present for this meeting.

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| 1. Dr. S. S. Kulkarni | Chairman | |
| 2. Dr. M. A. Dhotre | Member | |
| 3. Mr. V. P. Sirdeshmukh | -11- | |
| 4. Dr. R. B. Ade | -11- | |
| 5. Mr. S. S. Kshirsagar | -11- | |
| 6. Mr. S. D. Kadam | -11- | |
| 7. Dr. V. V. Patil | -11- | |
| 8. Mrs. S. R. Suresh | -11- | |



MINUTES BOOK

Faculty of Science

Board of Studies : BIOTECHNOLOGY

9. Miss K. N. Dhule	-11-
10. Miss S. G. Swami	-11-
11. Mr. A. J. Waghmare	-11-
12. Dr. Rajesh Jorgewad	Academic council member
13. Dr. Rajendra Patil	-11-
14. Dr. Baban Ingole	Expert by V. C
15. Mr. Abhay Desai	Industry Nominee
16. Dr. Santosh Kalthwate	Academic council member
17. Dr. Santosh Narwade	Research expert (PG Alumni)
18. Dr. Rahul Bhagat	Academic council member
19. Dr. Ravi Shinde	Member invitee
20. Dr. Gopal Londhe	-11-
21. Dr. Vinay Biradar	-11-
22. Dr. Kalyan Sawant	Other member

[Link : <https://us02web.zoom.us/j/82476414434?pwd=U3k5SWs2VmhtYk5zZWVlR9VVo8US19T09>]

Meeting ID: 82476414434

Passcode : 2551

Minutes of Meeting

After thorough discussion on course titles to be implemented in the year 2022-23, the following suggestions were put forward by the



MINUTES BOOK

Faculty of Science

Board of Studies : BIOTECHNOLOGY

BOS experts

1. Dr. Baban Ingole gave emphasis on placement of students and stressed on importance of skilled workers in Academics and Research.
2. Dr. Gopal Londhe and Dr. Abhay Desai suggested on practical aspects in curriculum and Basic Skill upgradation among students.
3. Dr. Rahul Bhagat suggested that along with upgradation of syllabus there is need to upgrade Advance instrumentation facility.
4. Dr. Rajesh Jorgewad suggested course title soft skills instead of communicative English. He also suggested to include spoken tutorial courses, NPTEL courses in the curriculum.
5. Dr. G. H. Kathwate suggested that as Biotechnology is an interdisciplinary subject, we need to include applied computer science, Mathematics in Biology and Molecular Diagnostic Techniques as a part of syllabus.



MINUTES BOOK

Faculty of Science

Board of Studies : BIOTECHNOLOGY

6. Dr. Sandeep Raut stressed on the importance of course titles in syllabus framing and the significance of skill upgradation considering focus on getting opportunities in reputed organization.

He also suggested to include courses like science communication skills, online certification course, Reasoning and aptitude and advise to focus on internship program.

After all the discussion, unanimously decision was taken to finalize following course titles as per which further syllabus will be framed.

Course Titles For UG Program

I Semester

CC1 Cell Biology

CC2 Introduction to physiology

CC3 General Microbiology

CC4 Basics of chemistry and physics

AECC1 Communicative English I



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Faculty of Science
Board of Studies : BIOTECHNOLOGY

Semester II

Course Titles

AECC1	Communicative English II
CCT1	Bioinstrumentation
CCT2	Epigenetics / Inheritance Biology
CCT3	Introduction to Biomolecules
CCT4	Biomathematics, Biostatistics and computer

Semester III

AECC1	Communicative English III
CCT1	Applied Microbiology
CCT2	Immunology and Virology
CCT3	Molecular Biology
CCT4	Metabolism

Semester IV

AECC1	Communicative English IV
CCT1	Biodiversity and Systematics
CCT2	Enzymology
CCT3	Process Biotechnology
CCT4	Environmental Biotechnology

Semester V

DSET1	Recombinant DNA Technology
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Faculty of Science
Board of Studies : BIOTECHNOLOGY

DSET2 Industrial Biotechnology
DSET3 Ecology and Evolution
DSET4 Developmental Biology
DSET5 Food Nutrition
DSET6 Nano Biotechnology

Semester VI

DSET1 Introduction to Bioinformatics
DSET2 Pharmaceutical Biotechnology
DSET3 plant and Animal cell culture
DSET4 Agriculture Biotechnology
DSET5 Structural Genomics
DSET6 Medical Biochemistry

Note:

- i) Equal weightage is given to both Theory as well as practicals.
- ii) Skilled enhanced courses are included in Second and Third year.

Course Titles for PG Program
Semester I

Molecular cell Biology
Biochemistry
Microbial physiology
Emerging Technologies



MINUTES BOOK

Faculty of Science

Board of Studies : BIOTECHNOLOGY

Semester II

1. Molecular Biology
2. Immunology and Diagnostic Biology
Clinical Research, IPR, Bioentrepreneurship
and Start up
3. and Start up
4. Bioprocess Engineering

Semester III

1. Genetic Engineering
2. Microbial Biotechnology
3. Bioinformatics and Biostatistics
4. Plant and Agricultural Biotechnology

Semester IV

1. Animal and Livestock Biotechnology
2. Advance pharmaceutical Biotechnology
3. Food and Nano Biotechnology
4. Environmental Biotechnology

Note:

1. Equal weightage is given to Both theory as well as practicals.
2. Seminar, Add on course / SEC included at second and third Semester.