

CHAITANYA BHARATI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Stake holder involvement in Curriculum Development
AY 2022-2023
Action taken and implementation in Curriculum

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1. Students

S No	Suggestions and Opinions	Action taken
1	Electives are being offered are relevant to specialization streams	Professional Electives like 'Deep Learning' have been introduced subsequent to ideas generated at Academic Council
2	Lab courses being offered are good	Additional improvements in Fermentation Technology Labs are done.
3	Electives are line with current technological advancements	Most of the electives are offered on the basis of advise from our Respected Board of Members



**CHAITANYA BHARATHI
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COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

44
years

Department of Biotechnology

Minutes of Meeting of Board of Studies

Date: 29.04.2023 **Time:** 9.30 am

Online link:

<https://cbithyd.webex.com/cbithyd/j.php?MTID=mbf281f5e3c02d93216996239dbc44ceb>

Agenda:

1. Confirmation of Previous BoS MoM
2. To finalize and approve for Scheme of Instructions from III Sem to VIII Semester for R22 Regulation
3. To finalize and approve of Syllabus for III and IV Semester for R 22 Regulation
4. To finalize and approve of Open Elective Syllabus offered to other departments
5. Honors and Minor Engineering syllabus updates from time to time
6. Any other item with the permission of the Chair

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... my class with the permission of the class

Members Present:

1. Professor A. Gopala Krishna, Biotechnology, IIT, Madras.
2. Dr. Emmanuel Paul, Principal Scientist-I, Albus Eco, Hyderabad.
3. Prof. B Rajam, Biotechnology, Osmania University , Hyderabad
4. Dr. Vidyani Suryadevara, RUSH University, USA
5. Dr. Ashoutosh Panday, Chairman BoS & HoD, Department of Biotechnology, CBIT
6. Dr. V. Aruna, Associate Professor, Department of Biotechnology, CBIT
7. Dr. G Vijaya Laxmi, Associate Professor, Department of Biotechnology, CBIT
8. Dr. Y. Rajasri, Associate Professor, Department of Biotechnology, CBIT
9. Dr. C. Obula Reddy, Assistant Professor, Department of Biotechnology, CBIT.
10. Dr. S. Sumithra, Assistant Professor, Department of Biotechnology, CBIT.

- Enzyme Technology was moved from Professional Elective I to a core theory course and included in VI Semester

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2. Teachers

S No	Suggestions and Opinions	Action taken
1	Provisions for Professional Development is not high in Plant Biotechnology Lab and Technical Seminar	This will be discussed in upcoming BoS meeting
2	Lack of Infrastructure in Plant Biotechnology Lab	This will be discussed in upcoming BoS meeting
3	Text book for the BI lab should be upgraded as subject is continuously evolving	This will be discussed in upcoming BoS meeting

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DEPARTMENT OF BIOTECHNOLOGY

FACULTY FEEDBACK ON CURRICULUM-

Academic Year:2022-23

Name of the Faculty Member : Dr. Ashutosh Panday

Designation : Professor

Courses Handled : Bio Informatics Lab

<u>Excellent-5</u>	<u>Very Good-4</u>	<u>Good-3</u>	<u>Average-2</u>	<u>Poor-1</u>
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Any other relevant Information: Text book for B.I. Lab should be upgraded as subject is continuously evolving.

Signature of the faculty

A Panday

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3. Employers

S No	Suggestions and Opinions	Action taken
1	More practical and research exposure is required	Animal Biotechnology Lab and Fermentation technology lab is added
2	Awareness on QMS is important to get jobs in Industries.	QC, QA etc. are taught in Regulatory Affairs and Clinical Trials
3	Product commercialization basics to be introduced	IPR course is there as Professional Elective, and additionally students are encouraged to patent their work

3c. In Semester –IV, Dr. Paul gave suggestions for the Fermentation Technology Lab. Especially he mentioned that there is a need to conduct the Study of batch and fed-batch fermentation processes for both prokaryotic and eukaryotic organisms separately.



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4. Alumni

S No	Suggestions and Opinions	Action taken
1	Bioinformatics and programming languages like C, python and R very useful	C, and Python language course has been introduced
2	Group mini project instead of common class assignments would be a great approach	Mini Project has been introduced and re-introduced
3	Subjects not very useful for future biotechnologists: CAD and drafting, Fluid mechanics and heat transfer	With scaleup options, utility of these subjects in increasing, so the courses have been kept as such

3d. Prof. Gopala Krishna asked if it would be possible to offer OOPS using Python course as a 4-credit course to make it more suitable for Biotechnologists. He also suggested that in the teaching of OOPS using Python Theory and Lab courses to Biotechnologists, it is advised that the faculty can quickly ramp up the Theory and Lab topics to incorporate examples and applications related to Biotechnology. Prof. Gopala Krishna suggested several examples, e.g.

- a) Molecular Modeling,
- b) Nucleotide Sequencing,
- c) Energy Minimization Problems,
- d) Writing small code to extract Pubmed information, etc.

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