

Chaitanya Bharathi Institute of Technology(A)

Department of Biotechnology

ACTION TAKEN ON STAKEHOLDERS FEEDBACKS

2020-21

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Department of Biotechnology

Parents feedback action taken 2020-21

Sno.	Question	No. of Responses	Average Rating	Remarks (if any)	Action Taken (if any)
1	Whether the current statement of vision is as per current need?	45	4		
2	If modifications required, suggest an alternative for vision statement:	45		Latest technologies must also be taught, rather than just Biotechnology such as machine learning, artificial intelligence, data science. Extracurricular activities like research lab visits and scientific exposure must be enhanced.	Cutting edge technologies were introduced in curriculum revision. More focus is being given to improve hands on experience
3	Whether the current statements of mission is as per current need?	45	4.02	--	--
4	If modifications required, suggest an alternative for mission statements:	45		Encourage and support participation of students in such conferences. Conduct more such seminars to enlighten them about fellowships and research opportunities and eligibility criteria	Participation of students in conferences and workshops increased drastically. Also department organised two international conferences in 20-21 and 21-22
5	Whether the current statements of PEOs is as per current need?	45	4.15	--	--
6	If modifications required, suggest an alternative for the PEO statement:	45		nil	
7	Whether the current statements of PSOs is as per current need?	45	4.04	--	--
8	If modifications required, suggest an alternative for the PSO statement:	45		nil	

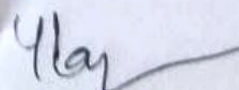
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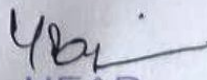
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Students feedback action taken 2020-21

Program Exit Feedback Summary					
Qno.	Question	No. of Responses	Average Rating	Remarks (if any)	Action Taken (if any)
1	Satisfaction level in associating with CBIT	37	3.054		We will try to make CBIT a better place for learning and all round development by imparting more practical education and encouraging students towards R&D , startups etc
2	Laboratory facilities	37	3.027		
3	Hostel facilities	37	2.67		
4	washrooms facilities	37	2.02		
5	Health center	37	2.29		
6	canteen facilities	37	2.7		
7	Transport facilities	37	3.02		
8	COE	37	2.86		
9	aec	37	2.59		
10	accounts	37	2.35		
11	sports	37	3.1		
12	Internet	37	2.32		
13	Library	37	3.64		
14	Computing facilities	37	3.08		
15	Training and Placement Office provided on/off campus placement opportunities.	37	2.64		Many of the Biotechnology students are interested in Higher studies preferably MS than placements , however we will contact companies for


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					recruiting students from our department. Also e are planning to collaborate with some finishing schools for improving placements
16	Career Counselling & Guidance for higher studies provided.	37	2.54		
17	Co and Extra Curricular opportunities provided.	37	3		
18	Motivation towards Research & Development(R&D)	37	3		
19	Curriculum and Syllabus	37	3.1		The present students have studied R16 regulations. We took enough care in designing the R18 and R20 syllabus with more emphasis on cutting edge technologies which are included as electives
20	To what extent you are able to apply the knowledge of mathematics, science, engineering fundamentals for the solution of complex engineering related problems? (PO1)	37	3		As Biotechnology is amalgamation of BiPc and MpC students we are trying to bridge the gap effectively by imparting the basic sciences that act as fundamentals for them. More basic concepts are included in r18 and R20 syllabus for the students to be more confident in the fundamentals
21	To what extent you are able to identify/formulate complex engineering problem and design Engineering based solutions? (PO2)	37	3.1		As Biotechnology is amalgamation of BiPC and MpC students we are trying to bridge the gap effectively by imparting the basic sciences that act as fundamentals for them. More basic concepts are included in r18 and R20 syllabus


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					for the students to be more confident in the fundamentals
22	To what extent you are able to design solutions for complex engineering problems and design system components that meet the specified needs for public health, safety, cultural, societal and environmental considerations? (PO3)	37	3.02		More internships are included in R18 and R20 as per AICTE suggestions so as to build the confidence in students to handle complex problems
23	To what extent you are able to use research based knowledge /methods to analyse/interpret/design/synthesize in your project to provide valid conclusions.(PO4)	37	3.13		Students are motivated to analyze and get solutions for problems by doing research on the problem given. Open ended and structured experiments are introduced to increase the analytical capabilities of the students.
24	To what extent you are able to create, select appropriate techniques and modern engineering/IT tools to model complex engineering activities? (PO5)	37	2.97		Exposure to Advanced equipment required for research and higher studies is required to have a knowledge on handling various modern equipment/tools. The dept is in the process of establishing Rand D lab from past 2 years
25	To what extent you are able to apply acquired knowledge to environment/societal benefits/health and cultural for consequent responsibilities relevant to the professional engineering practice? (PO6)	37	3.02		Students must be encouraged to solve real time issues of society so as to bring a sense of responsibility. In this pursuit Students of the department are being encouraged to participate in various ideathons to finally emerge as a startup company
26	To what extent you are able to understand the impact of the	37	3.13		

	professional engineering solutions in societal and environmental contexts for sustainable development? (PO7)				
27	How much aware are you regarding the professional ethics and norms of the engineering practice(PO8)	37	3.27		
28	How efficient do you think you are able to work as an individual/ as a team member / as a leader?(PO9)	37	3.4		
29	To what extent you are able to comfortably communicate your ideas in written/oral with engineering community/society in general?(PO10)	37	3.4		
30	How well do you think you are able to demonstrate knowledge and applied management principles to manage the projects as a member/leader in multidisciplinary environments? (PO11)	37	3.37		
31	How do you rate your zeal for independent/life-long learning in the context of rapid technological changes?(PO12)	37	3.27		
32	Can you claim yourself as a well trained graduates meeting the requirements of biotechnology industries, academic and research Institutions(pso1)	37	3.35		
33	Are you able to identify needs and problems of the society and design biotechnology driven solutions(pso2)	37	3.29		

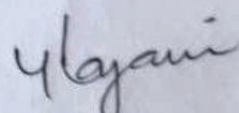
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Department of Biotechnology

Alumni feedback action taken 2020-21

Alumni Feedback Summary					
Qno.	Question	No. of Responses	Average Rating	Remarks (if any)	Action Taken (if any)
1	Whether the current statement of vision is as per current need?	51	4.098039216		
2	If modifications required, suggest an alternative for vision statement:	51		Apart from theory, more of practical sessions should be included not just for the sake of exams but to experiment and apply all the knowledge learnt in theory classes. And subjects irrelevant to biotech may be omitted (such as ethics and human values-- as we already have it in intermediate)	
3	Whether the current statements of mission is as per current need?	51	4.196078431		
4	If modifications required, suggest an alternative for mission statements:	51			
5	Indicate how well do you agree with each Program Educational Objectives as a predicted accomplishment for the degree (Note: If graduated before 3 years) [PEO 1]	51	4.019607843		
..	Indicate how well do you agree with each Program Educational Objectives as a predicted accomplishment for the degree (Note: If graduated before 3 years) [PEO 2]	51	3.941176471		
..	Indicate how well do you agree with each Program Educational Objectives as a predicted accomplishment for the degree (Note: If graduated	51	3.862745098		

	before 3 years) [PEO 3]				
	Indicate how well do you agree with each Program Educational Objectives as a predicted accomplishment for the degree (Note: If graduated before 3 years) [PEO 4]	51	3.980392157		
	Whether the current statements of PEOs is as per current need?	51	4.235294118		
	If modifications required, suggest an alternative for the PEO statement:	51			
	Indicate how well do you agree with each Program Specific Outcome as a accomplishment after graduation of course. (Note: All graduates) [PSO 1]	51	4.64		
	Indicate how well do you agree with each Program Specific Outcome as a accomplishment after graduation of course. (Note: All graduates) [PSO 2]	51	4.509		
	Whether the current statements of PSOs is as per current need?	51	4.31372549		
	If modifications required, suggest an alternative for the PSO statement:	51			


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**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS), HYDERABAD-75 FACULTY
ACTION PLAN TAKEN ON FACULTY FEEDBACK ON CURRICULUM**

Academic Year: 2020-21

Faculty opined that following changes have to be done and action has been implemented

2020-21		
1	AI in biology should be introduced in the curriculum	After discussing with external BoS members , the same has been included as elective for creating awareness of Biotech applications in Artificial Intelligence. Link: https://cbit.ac.in/wp-content/uploads/2019/04/Syllabus-R-18-Fianl-BT-dept.pdf (pg 38 of 92)
2	Nanobiotechnology should be included as core elective in the curriculum	Concerned CEG faculty after elaborate discussions in external BoS meeting and stakeholders felt that the same has to be included as elective. Link: https://cbit.ac.in/wp-content/uploads/2019/04/Syllabus-R-18-Fianl-BT-dept.pdf (pg 44 of 92)
3	Thermodynamics title has to be changed to Thermodynamics for Biotechnologists	As per external BoS suggestions, the title has been changed. Link: https://cbit.ac.in/wp-content/uploads/2019/04/BIOTECH-MODEL-CURRICULUMR20-III-Sem-to-IV-Sem.pdf.pdf (Pg 8 of 52)
4	OOPS using Python should be included for benefit of Bioinformatics and CMB learning by students	Stakeholders viz. Alumni, employers and BoS Members have opined that OOPS using python has to be included however to map with course structure we had to delete data structures and include OOPS using Python Link: https://cbit.ac.in/wp-content/uploads/2019/04/BIOTECH-MODEL-CURRICULUMR20-III-Sem-to-IV-Sem.pdf.pdf (Pg 16 of 52 and Pg 2 of 52)
5	Entrepreneurship should be offered as open elective	It is included as open elective offered by Mechanical engineering dept

6	Internships should be made mandatory	<p>As per the suggestions of many stakeholders same has been included after discussing with external BoS members</p> <p>Link: https://cbit.ac.in/wp-content/uploads/2019/04/BIOTECH-MODEL-CURRICULUMR20-III-Sem-to-IV-Sem.pdf.pdf (pg 1 of 52)</p> <p>https://www.cbit.ac.in/wp-content/uploads/2022/09/Syllabus-V-VI-Sem-Biotech.pdf (pg 2 of 45)</p> <p>https://www.cbit.ac.in/wp-content/uploads/2022/09/Syllabus-VII-VIII-Sem-Biotech.pdf (pg 1 of 43)</p>
7	Honors degree-MOOCs courses are introduced where students can pursue Honors degree	<p>External BoS members agreed to include Honors degree courses from NPTEL platform for benefit of students which will be pursued by students of Biotech dept.</p> <p>Link: https://cbit.ac.in/wp-content/uploads/2019/01/Consolidated-Honours-degree-course-for-the-academic-year-2021-22.pdf</p>
7	Minor engineering courses are introduced for benefit of students	<p>External BoS members agreed to include Minor engineering courses from NPTEL platform for benefit of students which will be pursued by other branch students.</p> <p>Link: https://www.cbit.ac.in/wp-content/uploads/2022/10/Additional-Minor-Engineering_Biotechnology.pdf</p>

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Employers, Parents and Alumni feedback action taken 2020-21

Attendees: Areeba, Bhavani, Bhagavath, Vishwam reddy, and Dr.M.V Swamy along with the Faculty of the Department. (employers, alumni and parents of Biotechnology department) **attended** pre BOS to discuss modifications to curriculum from R18 to R20.

Minutes of the online PREBOS meeting held on 12-07-2020 from 11:00am to 12:00pm.

Members Present

Dr.Y.Rajasri, Associate Professor, HoD, Department of Biotechnology

Dr.C.Obula Reddy, Assistant Professor, Department of Biotechnology

Dr. V. Aruna, Assistant Professor, Department of Biotechnology

Dr. G. Vijaya Laxmi, Assistant Professor, Department of Biotechnology

Mrs.S.Sumithra, Assistant Professor, Department of Biotechnology

Dr. P.V.P. Sai Arun, Assistant Professor, Department of Biotechnology

Dr.Bishwambhar Mishra, Assistant Professor, Department of Biotechnology

Dr.C.Nagendranatha Reddy, Assistant Professor, Department of Biotechnology

Mrs.A.Shalini, Assistant Professor, Department of Biotechnology

Ms.Y.Vineetha, Assistant Professor, Department of Biotechnology

Dr.M.V. Swamy, Chief Technical officer, Sanzyme Biologics and Parent of Btech Biotechnology student

Ms.Areeba, Alumni of CBIT

Ms.Bhavani, Alumni of CBIT

Mr.Bhagavath, Alumni of CBIT, Senior executive operations, Aurobindo Pharma LTD.

Mr. Vishwam Reddy, Alumni of CBIT

Minutes

1. Engineering Mechanics subject was removed from R20 curriculum as suggested by AICTE model curriculum after verifying with other IIT's and NIT's syllabus. Indian traditional Knowledge has been removed from III semester as AICTE model curriculum was proposed 3

audit courses viz., Environmental science, Indian Constitution, YOGA and Sports. The proposed audit courses are introduced in R20 curriculum.

2. Mr. Bhagavath Bhosale (Alumni) from Aurobindo informed that MTO, FM& HT, FT helped in industry. Importance of Numericals. He further suggested to include Controls, Instrumentation, Structure or basic outline of PLC in FT. Bhagvath also mentioned the importance of IPR, Clinical Trials and data Management courses as many students are opting to pursue their higher studies in these courses as they provide good employability options. He has also mentioned the importance of courses related to Management as many universities abroad are asking for the credits attained by the students in these management courses. He had suggested to include courses related to management at least as elective if not core.
3. Mr. Vishwam reddy emphasized the need of including single use bioreactors and virology and IPR has to be included as mandatory courses. He said he will communicate through mail after going through the curriculum structure and proposed syllabus.
4. Ms. Bhavani wanted the design and construction of fermenter to be included with emphasis being laid on MOC, pH, DO probe simulations. She also suggested to include affect of media components on a batch, quality attributes of MAB's, Cell lines and their advantages, case study on MAB's mechanism of action of drug. Aruna mam has informed that the above topics were covered in Immunodiagnosics syllabus which is being taught as an elective. Bhavani also discussed about the need to know the challenges that arise during scale up studies.
5. Ms. Areeba appreciated the modifications made to the curriculum and said that it was apt for the current scenario and she wanted food testing methods (FSSI) to be included and the title being changed from Food biotechnology to Food technology and Biotechnology.

The meeting was concluded by thanking all the invitees and faculty.

Ulagani

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