



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**  
Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. [www.cbti.ac.in](http://www.cbti.ac.in)



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**41**  
years

## DEPARTMENT OF BIOTECHNOLOGY

Minutes of BOS meeting held on 18.07.2020 from 10:30 am to 1:00pm

### External BOS members

1. Prof.Ramesh Kumar, Professor, OUCT, Dept of Chemical Engg.
2. Dr.N. Madhusudhan Rao, Scientist, CCMB, Hyd
3. Dr.Nagendra Varma, Manager, Virchow Labs, Hyd
4. Prof.Gopal Reddy, Retired Professor, Dept of Microbiology, OU, Hyd.
5. Mr.Navneeth Bung, Innovation Lab, TCS Industries, Hyd (Student Alumni)

### Internal BOS Members

- Dr.Y.Rajasri, Associate Professor, I/C 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

### Internal Invited Members

- 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

The following points were discussed in the meeting and recorded as follows:

### R18 Syllabus:

1. AI in Biology and Principles of data analytics moved to core elective from open electives( R18 syllabus attached ). Dr.N.Madhusudhan rao asked about prerequisites to teach the above

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courses, Suggestion were sought for AI Syllabus for biotechnologists. Syllabus was gone through in detail and Navneet Bung had informed that this is the basic form for students as it does not include coding. He expressed a doubt about RNA secondary structure prediction problems however it was conveyed that logic will be explained in solving structure related problems.

2. It was approved to offer Minor engineering degree for R18 students by external BoS members through Email. In this regard, two minor engineering courses were identified as: Biosciences and Bioengineering, Biochemical Engineering which can be pursued by other branch students. By acquiring a minimum total of 20 credits distributed over 3 semesters, such students can obtain a minor engineering degree. Courses were distributed over 3 different semesters right from 5th sem to 7th semester from basic to advanced level. All the courses have to be done through online mode which has a proctored exam. 8 weeks course carries 3 credits and 8 weeks course carries 2 credits. The list of subjects for the two different minor engineering courses were attached for your perusal (Minor engineering-Biosciences and Bioengineering, Minor engineering-Biochemical Engineering). B.tech Biotechnology students can choose other department minor engineering courses for securing the degree. For ex: B.Tech Biotechnology with Minor engineering in Data sciences. *Yli*
3. It was approved to offer Honors degree for R18 students by external BoS members through Email. With respect to Honors degree, subjects were identified for Biotechnology students. By acquiring a minimum total of 20 credits distributed over 3 semesters, students can obtain a Honors degree. Courses were distributed over 3 different semesters right from 5th sem to 7th semester from basic to advanced level. All the courses have to be done through online mode which has a proctored exam. 12 weeks course carries 3 credits and 8 weeks course carries 2 credits. *Yli*
4. Syllabus of Basics of Biology offered by Biotechnology department for other branches, which was already approved in 2017 BoS meeting was approved with new course outcomes the remaining syllabus was kept as it is, as was approved in the previous BoS.
5. Mr. Navneet Bung suggested to move Core elective IAPH to V sem and Numerical methods in Open elective which was modified
6. VII sem Structure was discussed courses wise, 5 core electives and 2 open elective. Nano biotechnology course in R18 Regulation is approved by the BOS members as it was not done in the earlier BOS meeting. In R16 regulation Nanobiotechnology syllabus has been approved. Board members have given their consent to include it in R18 Regulation.
7. Credit summary for B.Tech Biotechnology for each semester was presented. In conclusion of R18 V to VIII sem, it was informed that all the syllabus were approved in the previous BOS meeting, the only modification being CO's rewritten and some electives were introduced which will benefit the students.

#### R20 regulations

8. Vision, Mission, PSOs, PEOs are refined from R18 to R20 regulations, after taking stakeholders feedback. The new statements were presented to Honorable BoS members and the same was

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approved by the Honorable BoS members

9. R20 Scheme of instructions which is AICTE Model curriculum (80% AICTE and 20% is according to college norms and the need of the hour) was presented semester wise.
10. Intro of human values subject mandatory by AICTE(UHV-2 circular from AICTE enclosed) (R20 scheme of instructions attached)
11. In R20 regulations, PPPE is shifted to II Sem and it was informed that syllabus has not been reduced.
12. In R20 regulations Reduction of credit to Gender sensitization was informed to BoS and it is considered as audit course in R20
13. In R20 regulations Removal of Data structures and introduce Python in place of data structures with lab (R20 scheme of instructions attached)
14. In R20 course structure, Entrepreneurship and Startups subject is offered as open elective (R20 scheme of instructions attached)
15. In R20 regulations Dr.Ramesh Kumar from OU has given his consent as long as we abide by the 20% norm to be followed by the Institute.
16. Board of Studies was informed that Faculty based on their expertise are put in CEG for framing the syllabus, modifying the CO's and addressing the gaps if any and will be presented to PAC for further approval
17. External members have suggested that 80% structure has to be retained and 20% changes can be done in the AICTE model curriculum.
18. Dr.Gopal reddy had asked Dr.Ramesh Kumar to look into whether the syllabus has been changed within 20 % or has it exceeded as dilution should be avoided in context of autonomy.
19. Major change from AICTE Model curriculum to Changed curriculum is retaining chemical engineering subjects such as CBT,PPPE ,FM and HT,MT. GATE Syllabus has been referred while framing the syllabus and incorporating them in the present curriculum.
20. While discussing V sem Internship /Rural training as proposed by AICTE MC has been incorporated. Prof.Gopal reddy sir has urged the institute to offer help in terms of guidance and mentoring to economically weak/Socially weak students who may not be competent or equally aware of such programmes.
21. VI Sem subjects were discussed and explanation of Medical biotechnology being retained was provided.Dr.Madhusudan Rao stated Structural biology is more important than Medical biotechnology and it must be offered as core subjects. As medical biotechnology has concepts of stem cell technology as proposed by AICTE MC it was included.

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*Y. Ramesh Kumar*  
21/12/20



22. Dr.Gopal Reddy sir stated that it will be good for students if they can have 6 months of project work on 8<sup>th</sup> semester without class work, which will encourage the students to avail the opportunities available across the country.
23. Credit summary under R20 regulations for B.Tech Biotechnology for each semester was presented.
24. Dr.Madhusudhan Rao said that field/industry visits have to be encouraged.BOS members were briefed that students have been taken to various research institutes and Industries such as GVK BIO,Pratishta ,IIL ,NIAB,Bionectum etc.Dr.Madhusudan Rao sir has invited to visit CCMB .

The meeting was concluded.

*Y. Pan* 21/2/20

I/C Head, Department of Biotechnology

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