

## DEPARTMENT OF BIOTECHNOLOGY

Date: 17.04.2025

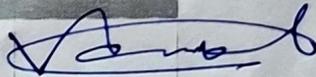
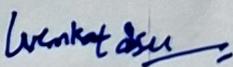
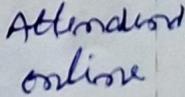
### Minutes of Board of Studies Meeting

Board of Studies (BoS) meeting of B.Tech., Biotechnology programme was conducted on 17.04.2025 in blended mode from 10.00 AM to 1.00 PM in ASF 12, 2<sup>nd</sup> floor, U Block VFSTR and also with the following Google meet link: <https://meet.google.com/ktv-anpa-sry>.

#### Agenda of the BoS Meeting:

1. To Discuss and finalize the curriculum structure and credits distribution of B.Tech., Biotechnology Programme for the regulation 2025 (R25-C25).
2. To Discuss and finalize the elective courses list (Department/ Open/ Minor / Honour) and stream of B.Tech., Biotechnology Programme for the regulation R25-C25.
3. To Discuss about the SDG and IKS components in the syllabus.
4. To approve the R25-C25 curriculum, syllabus and assessment schemes of B.Tech., Biotechnology Programme and recommend to the Academic council.
5. Any other points with the permission of Chairperson.

The following members were present either thorough offline or online.

S.No.	Name and Designation of the Member	Position	Signature
1.	Prof. T.C. Venkateswarulu Professor and HoD, Dept. of Biotechnology, VFSTR	Chairperson	
2.	Prof. V. Venkata Dasu Professor, Department of Biosciences and Bioengineering, Indian Institute of Technology Guwahati (IITG)	External Member (Academic)	
3.	Prof. Pritish Kumar Varadwaj Professor, Department of Applied Sciences, IIIT Allahabad	External Member (Academic)	

4.	Dr. P. Madhu Babu Sr. Scientist., Omics NextGen Laboratories., Bhimavaram	Invited Member (Industry)	Attended online
5.	Dr. Nageswara Rao Pulipati Cofounder & CSO, Bycus Therapeutics Pvt. Ltd., Hyderabad	Invited Member (Industry)	Attended online
6.	Prof. Vijaya Ramu Dirisala Professor, Dept. of Biotechnology, VFSTR	Member	<del>Dr. Vijaya Ramu</del>
7.	Prof. S. Asha Professor, Dept. of Biotechnology, VFSTR	Member	Attended online
8.	Dr. Abraham Peele Karlapudi Assoc. Professor, Dept. of Biotechnology, VFSTR	Dean, R & D Nominee	<del>Abraham</del>
9.	Dr. Md. Nazneen Bobby Assoc. Professor, Dept. of Biotechnology, VFSTR	Member	del. Online
10.	Dr. N. Jalaja Assoc. Professor, Dept. of Biotechnology, VFSTR	School Dean Nominee	<del>N. Jalaja</del>
11.	Dr. Katari Sudheer Kumar Asst. Professor, Dept. of Biotechnology, VFSTR	Member	<del>Sudheer</del>
12.	Dr. Rani J.R. Asst. Professor, Dept. of Biotechnology, VFSTR	Member	<del>Rani</del>
13.	Dr. Malathi Balasubramaniyan Asst. Professor, Dept. of Biotechnology, VFSTR	Member from VFSTR off- campus, Hyderabad	Attended online
14.	Prof. D. John Babu Professor, Dept. of Biotechnology, VFSTR	Member Secretary — BT	<del>John</del>
15.	Dr. A. Rangandha Reddy Assoc. Professor, Dept. of Biotechnology, VFSTR	Member Secretary — BI	<del>A. Rangandha</del>

Chairperson Dr. T.C. Venkateswarulu, Professor and Head, Department of Biotechnology, VFSTR initiated the meeting by welcoming and introducing the external members and invitees to the internal members. Chairperson presented about the *NEP 2020 Compliant Regulation - R25-C25* which emphasis on creating *learning centric* (continuous learning and continuous assessment model), offering B.Tech., B.Tech. with Honours / Research Honours / Minor / Add-on Diploma, providing lateral entry and honourable exit.

**The following points were discussed in the BoS meeting:**

1. Regulation R25-C25.
2. Curriculum structure with credits, credits distribution (L-T-P-SL).
3. Significance of self-learning (SL)
4. 2 Modules, Module-1 is fundamental with 2 units and Module-2 is fundamental with 3 units.
5. Assessment methods (Formative & Summative).
6. Grading Schemes.
7. Department Elective and Honour courses (streams/pools).
8. Open Elective and Minor courses (streams/pools).
9. Creative work-in-Liu-Course work
10. SDG Mapping and incorporation of IKS components
11. Consideration of new program outcomes (POs) as prescribed by the NBA

**The following are the observations:**

1. Major restructuring has taken place in the curriculum which is oriented towards continuous learning and assessment based on Module structure.
2. Major reformation has taken place in the curriculum by offering Honours/Specialization degree or Minor degree through 16 more credits with additional courses.
3. R25-C25 curriculum structure including list of professional core, department elective, open elective, Minor and Honour courses of B.Tech, Biotechnology programme. **(Appendix - I)**
4. The curriculum is encompassing the courses that enable employability or entrepreneurship or skill development, provided in **Appendix - II**.
5. Total average percentage of syllabus revised was **46.12%** compared to previous curriculum provided in **Appendix - III**.
6. The significant changes are made in the content of all courses and hence the courses are considered as new courses provided in **Appendix - IV**.
7. **Indian Knowledge System (IKS)** components are incorporated in the relevant courses and the details are mentioned in **Appendix - V**.
8. The courses in the curricula are mapped with the **Sustainable Development Goals (SDG)** and the mapping details are provided in **Appendix - VI**.
9. Feedback from various stakeholders are incorporated appropriately in the R25-C25 curriculum.

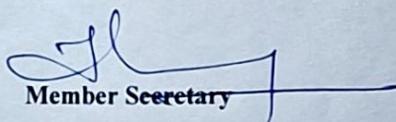
**The following improvements are suggested: (Action Points)**

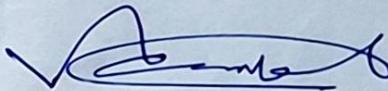
1. External members suggested to create more awareness about IKS to the faculty members by conducting either department workshops or institute level workshops.
2. Prof. Prithish Kumar suggested to create awareness on use of AI for domain specific themes to all faculty.
3. Dr. Madhu Babu suggested to include FACS (Fluorescence-Activated Cell Sorting) and its applications in Immunology and Immunotherapy course.
4. Prof. V. Venkata Das suggested to rename Transport Phenomenon in Biotechnology as Transport Phenomenon in Biological Systems.
5. Dr. P. Nageswara Rao suggested to change Biochemistry and Enzymology as Biochemistry.
6. Dr. P. Nageswara Rao suggested to separate Cell and Cancer Biology, Cell Biology as Core course and Cancer Biology and Therapy as Elective course.

**The following recommendations and approvals are made after the discussion:**

1. BoS Members approved the revised regulations, curriculum structure, syllabus, assessment schemes of B.Tech., Biotechnology programmes and it follows based on the NEP 2020.
2. The details of elective courses (Department/ Open/ Minor / Honour) of B.Tech., Biotechnology Programme for the regulation R25-C25 are approved.
3. NPTEL courses are approved for the Academic Year 2025-26.
4. SDG mapping and incorporation of the IKS components in the syllabus is approved.

There being no further points for discussion, the Chairperson thanks all the external, internal, invited members and announced that the meeting was concluded.

  
Member Secretary

  
Chairperson  
Department of Biotechnology  
School of Biotechnology and Pharmaceutical Sciences  
Vignana's Foundation for Science,  
Sourashtra & Research, (Deemed to be University)  
Post Box No. 527/13 Guntur CA, AP India