



VIGNAN'S

FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH

(Deemed to be University) - Estd. u/s 3 of UGC Act 1956

DEPARTMENT OF BIOTECHNOLOGY

Date: 08.04.2025

Minutes of Department Academic Advisory Committee Meeting

Department Academic Advisory Committee meeting of B.Tech., Biotechnology programme was conducted on 08.04.2025 in Room No. ASF-06, Third Floor, U-Block, VFSTR from 10.00 AM to 11.30 AM.

Agenda of DAAC meeting:

1. To discuss about the feedback collected from various stakeholders on R22 curriculum and propose actions to be taken in developing R25-C25 curriculum.
2. To Discuss and finalize the curriculum structure and credits distribution of B.Tech., Biotechnology Programme for the regulation 2025 (R25-C25).
3. To Discuss and finalize the elective courses list (Department/ Open/ Minor / Honour) and stream of B.Tech., Biotechnology Programme for the regulation R25-C25.
4. The proposed changes in assessment methods (Formative & Summative).
5. To discuss and finalize the syllabus of R25-C25 curriculum.
6. To Discuss about the SDG and IKS components in the syllabus.
7. Any other points with the permission of Chairperson.

The following members were present

S.No.	Name	Designation	Signature
1.	Prof. T.C. Venkateswarulu	Chairperson	
2.	Dr. M. Indira	Member	
3.	Dr. A. Venkata Narayana	Member	
4.	Dr. C. David	Member	
5.	Dr. A. Ranga Rao	Member	
6.	Dr. K. Vallayyachari	Member	
7.	Dr. D. Shyam Babu	Member	
8.	Dr. Sankran Krishnamurthy	Member	
9.	Prof. D. John Babu	Member Secretary	

The chairperson of DAAC, Prof. T.C. Venkateswarulu, who is also the Head of the department, opened the meeting. The chairperson presented about the proposed R25-C25

curriculum of B.Tech Biotechnology program and also detailed syllabus changes of C25 curriculum.

The following points were discussed in the DAAC 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 resolutions made after the discussion:

1. The committee recommended the introduction of new courses, namely **Cell and Cancer Biology, Process Principles and Calculations, Transport Phenomena in Biotechnology, Biomanufacturing Technology, and Omics Technology**, to enhance the academic breadth and relevance of the curriculum.
2. The committee reviewed and discussed proposed revisions to the syllabi of existing courses, including **Molecular Biology and Genetic Engineering, Bioreactor Design and Operations, Next-Generation Sequencing and Metagenomics, and Immunology and Immunotherapy**. The suggested modifications were accepted for implementation.
3. The committee deliberated on and approved the inclusion of advanced-level courses such as **Plant Systematics, Biophysics, Bionanotechnology, and Data Analysis for DNA Microarrays**. The syllabi for these courses were thoroughly reviewed and finalized.
4. The committee endorsed the introduction of new courses focused on bioresource utilization, including **Biomass Conversion and Utilization, Algal Technologies, and Food Process Biotechnology**, recognizing their relevance to sustainable development and industrial applications.
5. The committee approved the addition of a new interdisciplinary course, **Artificial Intelligence and Machine Learning in Biology**, and finalized its syllabus, acknowledging the growing significance of computational approaches in biological research.
6. Two new minor specialization tracks were thoroughly discussed and approved: **Nutrition Biotechnology and Public Health and Environmental Biotechnology and Biofuels**. The syllabi for these minor streams were finalized.
7. In alignment with the Sustainable Development Goals (SDGs), a new **Honors stream in Bioenergy and Functional Foods** was introduced, aimed at fostering interdisciplinary knowledge and sustainable innovation.


Member Secretary


Chairperson