

DEPARTMENT OF MATHEMATICS AND STATISTICS
SCHOOL OF APPLIED SCIENCES AND HUMANITIES

Date: 28.03.2025

Minutes of Board of Studies Meeting

The Department of Mathematics and Statistics has conducted the Board of Studies (BoS) meeting for the B.Tech. programmes (Mathematics and Statistics courses), B.Sc. (Mathematics, Statistics, and Computer Science) programme, and B.Sc. (Actuarial Science) programme on 28.03.2025 at the HoD Cabin, Third Floor, A Block, VFSTR, from 10:00 AM onwards in offline mode, under the chairmanship of the Head of the Department of Mathematics and Statistics, along with the committee members and external members.

Agenda of the BoS Meeting:

1. To Discuss and finalize the curriculum structure and credit distribution of B.Tech. programmes (Mathematics and Statistics courses), B.Sc. (Mathematics, Statistics, and Computer Science) programme, and B.Sc. (Actuarial Science) Programme for the regulation 2025 (R25-C25).
2. To Discuss and finalize the elective courses list (Department/ Open/ Minor / Honour) and streams of B.Tech. programme (Mathematics and Statistics courses), B.Sc. (MSCs) programme, and B.Sc. (AS) Programme for the regulation R25-C25.
3. To discuss integration of SDGs and IKS in the syllabus. Focus on incorporating them into relevant courses.
4. To approve the R25-C25 curriculum, syllabus and assessment schemes of B.Tech. programme (Mathematics and Statistics courses), B.Sc. (MSCs) programme, and B.Sc. (AS) Programme and recommend to the Academic Council.
5. Incorporation of stakeholder feedback (Alumni, Employers, Students, and Faculty) into curriculum and syllabus revisions.
6. Implementation of the New LTPS (Lecture, Tutorial, Practical, and Self-Learning) Structure for R25 & C25.
7. To review the Action Taken Report (ATR) submitted by the Department Academic Advisory Committee (DAAC) based on the minutes of the DAAC meeting.
8. Mapping of B. Tech courses with new Programme Outcomes (POs) to align with recent academic frameworks.
9. Review of the Pre-Semester Program and Assessment Structure under R25 & C25, focusing on its objectives and implementation based on student proficiency levels.
10. To approve the course "Advanced Linear Algebra and Partial Differential Equations" for B.Tech. ECE II Year I Semester under R24-C24.
11. Discussion on CGPA distribution trends and academic performance under VFSTR R25 & C25, with emphasis on identifying support strategies for diverse learner groups
12. Any other academic matters with the permission of the chair.

The following members were present, including the external members and invitees, who attended in offline mode.

Sl. No	Name of the member	Designation and Address	Role	Signature
1	Prof. N. Seshagiri Rao	Professor and Head of the Department, Department of Mathematics and Statistics, VFSTR	Chair person	N. Seshagiri Rao 28/3/25
2	Prof. P. Anantha Lakshmi Narayana	Professor of Mathematics IIT, Hyderabad Email: ananth@math.iith.ac.in Mobile No. : 9949287368	External member (Academia & Research)	P. Anantha Lakshmi Narayana 28/3/25
3	Dr. Achintya Roy	Assistant Professor, Department of Mathematics, NIT Warangal Mobile No: 8001531814 Email : achintyaroy@nitw.ac.in	External member (Academia)	Achintya Roy 28/3/25
4	Dr. Gajula Srimannarayana,	Assistant Professor & Programme Coordinator, Department of Actuarial Science, Institute of Insurance and Risk Management (IIRM), Hyderabad, Telangana, India. Email: srimannarayana@theiirm.ac.in Contact: 9394317311	External member (Academia)	G. Srimannarayana 28/3/25
5	Dr. M. Venu Gopal Rao	Data Analyst Cum. Scientist, Novartis, Hyderabad. Email: venugopal@jism.email Mobile No.: 9866633975	External Invitee (Industry)	M. Venu Gopal Rao
6	Prof. P. L. N. Varma	Professor, Department of Mathematics and Statistics, VFSTR	Internal Member	P. L. N. Varma
7	Dr. S. Parthiban	Associate Professor, Department of Mathematics and Statistics, VFSTR	Internal Member	S. Parthiban
8	Dr. U.V. Manoj Kumar	Assistant Professor, Department of Mathematics and Statistics, VFSTR	Internal Member	U.V. Manoj Kumar
9	Dr. K. Kalyani	Assistant Professor, Department of Mathematics and Statistics, VFSTR	Internal Member (Dean, R&D Nominee)	K. Kalyani
10	Dr. Kamakya Paul	Assistant Professor, Department of Mathematics and Statistics, VFSTR	Internal Member (School Dean, Nominee)	Kamakya Paul 28/3/25
11	Dr. Annapurna Kiranmayee	Assistant Professor, Dept. of English and FL, VFSTR	Internal Invitee member	A. Kiranmayee

12	Dr. Durga	Assistant Professor, Department of Management, VFSTR	Internal Invitee member	Durga.S
13	Mr.N.Brahma Naidu	Assistant Professor, Department of CSE, VFSTR	Internal Invitee member	N. Brahma Naidu
14	Dr.S.Vinoth	Assistant Professor Department of Mathematics and Statistics, VFSTR	Member Secretary (BoA)	S. Vinodh

The following members have taken leave of absence:

Sl. No	Name of the member	Designation and Address	Role
1	Prof. P. Tirupathi Rao	Dean & Professor, Department of Statistics, Pondicherry, Central University	External Member (Academic)
2	Prof. V. R. K. Murthy	Professor, Department of CSE, VFSTR	Internal Member
3	Dr.S. Hanumantha Rao	Associate Professor, Department of CSE, VFSTR	Internal Member

Chairperson Dr. N. Seshagiri Rao, Professor and Head, Department of Mathematics and Statistics, 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. He also highlighted the integration of industry expertise, the Indian Knowledge System (IKS), and Sustainable Development Goals (SDGs) into the curriculum to enhance the relevance, depth, and global impact of the academic programs.

The following points were discussed in the BoS meeting:

1. Regulation R25-C25 for B.Tech. (Mathematics and Statistics), B.Sc. (Mathematics, Statistics, and Computer Science), and B.Sc. (Actuarial Science).
2. Curriculum structure with credits, credits distribution (L-T-P-SL).
3. Significance of self-learning (SL)
4. 2 Modules among which Module-1 covers fundamentals with 2 units and Module-2 covers advanced topics with 3 units.
5. Assessment methods (Formative & Summative).
6. Grading Schemes.
7. Department Elective courses, Open Electives and Minor courses (streams/pools).
8. Information related to NPTEL courses for the Academic Year 2025-26.
9. Creative work-in-Lieu-Course work
10. SDG Mapping and incorporation of IKS components
11. Consideration of new program outcomes (POs) for B. Tech. as prescribed by the NBA
12. Strategies for effectively communicating the new Program Outcomes (POs) to students and faculty to ensure seamless implementation
13. Recommendations from the DAAC July 2024 meeting were noted for curriculum enhancement and forwarded for BoS consideration.
14. CGPA trends and academic performance under R25 & C25.
15. Approval of the course "Advanced Linear Algebra and Partial Differential Equations" for B.Tech. ECE II Year I Semester under R24-C24.

The following are the observations:

1. Major restructuring has taken place in the curriculum which is oriented towards continuous learning and continuous 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 electives, open electives, Minor courses, NPTEL courses of B.Tech. programmes (Mathematics and Statistics courses).
4. The curriculum is encompassing the courses that enable employability or entrepreneurship or skill development, provided in **Appendix - II**.
5. The Board of Studies noted the detailed and structured Action Taken Report submitted by the DAAC. The report highlighted clear follow-up actions on stakeholder feedback, curriculum enhancement, and robust implementation of formative assessment reforms and CO-PO attainment tracking, as outlined in **Annexure II**.
6. Total average percentage of syllabus revised is 45% compared to previous curriculum provided in **Appendix - III**.
7. The significant changes are made in the content of all courses and hence the courses are considered as new courses provided in **Appendix - IV**.
8. **Indian Knowledge System (IKS)** components are incorporated in the relevant courses and the details are mentioned in **Appendix - V**.
9. The courses in the curricula are mapped with the **Sustainable Development Goals (SDG)** and the mapping details are provided in **Appendix - VI**.

10. Interdisciplinary flexibility has been enhanced, allowing students to choose electives from other departments
11. The teaching-learning process now integrates AI-assisted personalized learning pathways for foundational subjects.
12. The curriculum encourages interdisciplinary learning and innovation by integrating Self-Learning (SL) components and offering flexible learning paths.
13. Feedback from various stakeholders is incorporated appropriately in the R25-C25 curriculum.
14. Experts reviewed the prepared course contents and curriculum for 3-years program and regulations R25-C25 for B.Sc. (Mathematics, Statistics and Computer Science) and B.Sc. (Actuarial Science) and suggested extending these into 4-year Honours degree programs beginning from A.Y. 2026-27.
15. The Board noted the pre-semester duration to be 6 weeks for B.Tech. (Mathematics and Statistics) programs to ensure adequate academic preparedness.

The following improvements are suggested: (Action Points)

1. External members suggested creating more awareness about IKS to the faculty members by conducting either department workshops or institute level workshops

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. programmes (Mathematics and Statistics courses), and it follows NEP 2020.
2. The details of elective courses (Department/ Open/ Minor) of B.Tech. programmes (Mathematics and Statistics courses) 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.
5. The introduction of Self-Learning (SL) components with appropriate credit allocation and evaluation methods is approved.
6. The revised Program Outcomes (POs) aligned with the NBA guidelines are approved for implementation across the B.Tech. programmes (Mathematics and Statistics courses).
7. It was recommended to institutionalize regular reviews and stakeholder feedback mechanisms to ensure continuous curriculum enhancement and relevance.
8. The course "Advanced Linear Algebra and PDE" for B. Tech. ECE II Year I Semester under R24-C24 was approved.
9. It is recommended that, to meet the latest UGC guidelines and in line with NEP2020, the existing 3-year degree programs B.Sc. (Mathematics, Statistics and Computer Science) and B.Sc. (Actuarial Science) should be restructured and extended to be offered as 4-year Honours degrees.
10. Further, in order to prepare the 4th year curriculum and to get permission from various authorities of the university, it is suggested to offer the Honors degree from next academic year i.e., A.Y. 2026-27 and to continue to implement R22 regulations and curriculum for the batch of students admitted in the A.Y.2025-26

S. Chetty

N. G. Gerasimov

Chairperson
HEAD

Department of Mathematics and Statistics
School of Applied Sciences and Humanities