

## **8.2 Academic Audit and Actions Taken thereof during the Period of Assessment**

### **A. Availability of External Academic Audit process:**

#### **Academic Audit Procedure:**

Yes, External academic audit process is available in the department.

#### **The process of external academic audit process is follows:**

The process of Academic Audit intends to monitor and enhance the quality of technical education through proper guidelines for both teaching faculty and students, so as to ensure qualified engineers/researchers passing out from Engineering Institutions.

The Internal Quality Assurance Cell (IQAC) conducts an External Academic Audit through a structured process designed to evaluate and enhance academic quality, teaching- learning methodologies, research, and administrative efficiency. This audit is conducted by distinguished External Audit Panel comprising renowned professors from NIT Warangal:

Ensuring an objective and high-standard evaluation, the audit follows a systematic approach consisting of four key phases: Pre-Audit Preparation, On-Site Audit, Post-Audit Evaluation and Follow-Up for Continuous Quality Enhancement.

#### **Pre-Audit Preparation:**

The audit process begins with the formal appointment of the external audit panel. A well- defined schedule is established, ensuring a structured and efficient evaluation. Departments are required to compile a comprehensive Academic Audit Report, covering critical areas such as academic activities, faculty contributions, teaching-learning processes, research and innovation, student support and progression, and infrastructure facilities. This phase ensures that all necessary documentation and records are prepared in advance for a continuous audit process.

#### **On-site audit:**

During the on-site audit, the panel visits the departments to review academic activities and examine relevant documents, records, and files to ensure compliance with institutional and accreditation standards.

The Head of the Department (HOD) delivers a formal presentation, providing a detailed overview of the department's strengths, challenges and areas for improvement in academics, research and infrastructure.

The audit panel conducts structured discussions with faculty and students to assess teaching methodologies, research contributions, assessment and evaluation practices, industry collaborations and the overall academic environment. Additionally, the panel thoroughly reviews departmental facilities, including laboratories, ICT-enabled resources and other essential infrastructure ensuring they meet the required standards for quality

education and research.

#### **Post-Audit Evaluation:**

Following the on-site visit, the external panel prepares a comprehensive audit report outlining key findings, departmental strengths and areas requiring improvement. The report includes actionable recommendations aimed at enhancing academic excellence, research quality and institutional effectiveness. Based on these recommendations, a departmental action plan is formulated to address the identified areas for improvement and ensure systematic implementation of the suggested enhancements.

#### **Follow-Up for Continuous Quality Enhancement:**

To ensure sustained progress, periodic review meetings are conducted to track the implementation of audit recommendations. A structured monitoring mechanism is put in place to assess the impact of the changes and identify further areas for refinement. This ongoing process fosters a culture of continuous quality enhancement within the department, leading to sustained academic growth, improved research outcomes, and enhanced student learning experiences.

By following this structured audit process, the institution ensures continuous improvement in academic quality, research contributions and overall departmental development.

#### **B. Plan of action to address the recommendations for the Academic Year 2023-24:**

Based on the external academic audit reports, the department formulates a comprehensive plan of action:

##### **Proposed Plan of Action**

<b>S. No</b>	<b>Recommendations/ Suggestion</b>	<b>Proposed Action plan</b>
1	Identify and pursue funding opportunities from Government and Private agencies	Faculty members are encouraged to collaborate through R&D groups to share their research and published work as a team, aiming to secure funding projects.
2	Develop Industry-Academic Collaboration to increase Consultancy Services	Encourage faculty to proactively pursue consultancy projects from industries that have signed MoUs with the Institute.
3	Quality of Placements need improvement	Planning to focus more on <b>project based learning</b> , practice on <b>advanced problem solving</b> and <b>Mock Interviews</b> by industry experts.

**Plan of action to address the recommendations for the Academic Year 2022-23:**

Based on the external academic audit reports, the department formulates a comprehensive plan of action:

**Proposed Plan of Action**

S. No	Recommendations/ Suggestion	Proposed Action plan
1	The Department need to focus on external R&D and Consultancy Projects	Faculty members are encouraged to collaborate through R&D groups to share their research and published work as a team, aiming to secure funding projects.  Encourage faculty to proactively pursue consultancy projects from industries that have signed MoUs with the Institute.

**Plan of action to address the recommendations for the Academic Year 2021-22:**

Based on the external academic audit reports, the department formulates a comprehensive plan of action:

**Proposed Plan of Action**

S. No	Recommendations/ Suggestion	Proposed Action plan
1	Focus on external funded R& D projects and consultancy	Faculty members are encouraged to collaborate through R&D groups to share their research and published work as a team, aiming to secure funding projects.
2	Department may enter into MOU with higher level institutes and apply for joint research projects	To identify and collaborate with reputed higher institutions through MoUs to explore joint research opportunities. Prepare and submit joint research proposals to national funding agencies.
3	Re-design M.Tech program to attract students.	Enhance the program's attractiveness by fostering industry partnerships, offering internships, and providing strong career

		guidance and placement support.
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### **C. Record of actions/corrective measures taken during the assessment period:**

**The Following Recommendations / Suggestions are implemented in A.Y2024-25**

The Academic Audit Committee has suggested the following recommendations and actions taken on those recommendations are presented in the following table for **continuous improvement of the program for the Academic Year 2023-24.**

<b>S.No</b>	<b>Recommendations</b>	<b>Actions/Corrective Measures</b>	<b>Implementations/ Continuous Improvements</b>
1	Identify and pursue funding opportunities from Government and Private agencies	Faculty members are encouraged to collaborate through R&D groups to share their research and published work as a team, aiming to secure funding projects..	Faculty members are actively engaged in collaborative research through R&D groups and are exploring opportunities for funded projects.
2	Develop Industry-Academic Collaboration to increase Consultancy Services	Encourage faculty to proactively pursue consultancy projects from industries that have signed MoUs with the Institute.	Received a consultancy project worth USD 25,000 from JP Morgan Chase, Bangalore for the project titled “Enhancing and Optimizing the Production Support and Incident Management Process Using the Latest AI and ML Technologies” and received the first installment of USD 5,000.
3	Quality of Placements need improvement	Planning to focus more on project based learning, practice on advanced problem solving and Mock Interviews by industry experts.	The department achieved a significant number of placements, with the highest package being 16.5 LPA offered by AT&T. The majority of placements were secured in companies like Accenture, TCS, and CTS. Plans are underway to invite more reputed MNCs in the near future to further enhance placement opportunities.

**Record of actions/corrective measures taken during the assessment period:**

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<b>S.No</b>	<b>Recommendations</b>	<b>Actions/Corrective Measures</b>	<b>Implementations/ Continuous Improvements</b>
1	The Department need to focus on external R&D and Consultancy Projects	Faculty members are encouraged to collaborate through R&D groups to share their research and published work as a team, aiming to secure funding projects..	<p>Faculty members are actively engaged in collaborative research through R&amp;D groups and are exploring opportunities for funded projects.</p> <p><b>In this Academic Year Applied 3 funding projects.</b></p> <p><b><u>1:Title of the project</u></b> <b>SerenityLiv:</b> An Ambient Environment through Federated learning for Elderly Well-being through Human Activity Monitoring <b><u>Sponsoring Agency:</u></b> JNTU <b>Total(Estimated in lakhs):</b> 10,00,000/-</p> <p><b><u>2:Title of the project</u></b> <b>WIDUSHI</b>Women's Instinct for Developing and Ushering in Scientific Heights &amp; Innovation <b>Sponsoring Agency:</b> WISE-KIRAN <b>Total(Estimated in lakhs):</b> 64,80,000/</p> <p><b><u>3: Title of the project:</u></b> STI Hub to improve the Socio-Economic Status of people belong to scheduled caste community in</p>

			<p>Kanuru village Penamaluru Block, Krishna District</p> <p><b>Sponsoring Agency: DST-SEED</b></p> <p><b>Total(Estimated in lakhs):</b> 3,53,59,244/-</p> <p>Two faculty members have been approached to collaborate with JPMorgan Chase on consultancy projects.</p>
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<b>S.No</b>	<b>Recommendations</b>	<b>Actions/Corrective Measures</b>	<b>Implementations/ Continuous Improvements</b>
1	The department needs to focus on external R&D and consultancy projects	Faculty members are encouraged to collaborate through R&D groups to share their research and published work as a team, aiming to secure funding projects..	Faculty members are actively engaged in collaborative research through R&D groups and are exploring opportunities for funded projects. <b>Applied 4 research projects</b> worth of Rs 1,42,83,956/- for funding.
2	Department may enter into MOU with higher level institutes and apply for joint research projects	To identify and collaborate with reputed higher institutions through MoUs to explore joint research opportunities. Prepare and submit joint research proposals to national funding agencies.	Had 15 functional MOU's
3	Re-design M.Tech program to attract students.	Enhance the program's attractiveness by fostering industry partnerships, offering internships, and providing strong career guidance and placement support.	-