7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its Priority and thrust

Student Project Ideation Concept (SPIC)

The educational philosophy followed in SSMIET campus aims at producing students who could meet the challenges at the international technical job market. Our students are groomed as professionals in their field of study and are nurtured to compete with any competitor from any part of the world. SSMIET encourages students to undertake industry-related projects which could involve hands-on experiences, practical applications, or collaborations with industry partners to enhance students' understanding and skills in real-world contexts.

The SPIC plays a vital role in connecting educational philosophy of SSMIET and also make students to face the challenges present in the industry, possibly facilitating opportunities to address or engage with real-world issues. At the outset, the students from all departments are instructed to participate in this initiative. SPIC commences its activities by gathering 155 problem statements sourced from 13 diverse companies, which are then communicated to SSMIET students. The selection of companies engaged in SPIC aligns with the SSMIET Model, either through pre-existing Memorandums of Understanding (MOUs) with SSMIET or their involvement in events like Technical Talks, seminars, or technology training organized at SSMIET

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Implementation of ***SPIC*** consists of various stages;

- **Identification of Industry Needs**

  Collaborate closely with industry representatives to identify specific problems or challenges and communicate frequently to get problem statements

- **Communicate Problem Statements to Students**

  Clearly communicate the identified problem statements to students, ensuring a comprehensive understanding of the challenges they will address during their work.

- **Student Project Selection**

  Encourage students to express their preferences and interests in addressing specific problem statements. Implement a fair and transparent process for assigning students to projects.

- **Assigning Project Supervisor**

  Upon choosing their preferred problem statements, students are paired with a Project Supervisor possessing extensive knowledge related to the selected problem statements. There are maximum 4 students per project team under one supervisor. A new process is initiated for the evaluation of final year projects in four stages with the support of industrial experts as one of the reviewers to ensure industrial relevance and implementation of emerging technologies in student's projects the project presentation is organized into four distinct phases, outlined as follows:

a) Zeroth review:

During this phase, students are directed to conduct a PowerPoint presentation which focusing on the project overview. This includes crafting an abstract, block diagram for project work, identifying the base paper, and elucidating the tools intended for use in their project work.

b) First review:

During this phase, students are guided to finalize 70% of their project work including literature survey, coding part or prototype and compile the Project book in accordance with the Anna University format.

c) Second Review:

In this Phase, students are instructed to submit their complete project work and Project demo session is also arranged.

d) Final review:

Following the Anna University format, an end-semester Viva-Voce examination is scheduled, wherein an external examiner will be appointed. Marks will be assigned based on the student's performance during the examination.

- **Industry Mentorship**

Match each student project team with industry mentors who can offer guidance, provide feedback, and share valuable insights throughout the duration of the project.

- **Progress Monitoring**

Implement a system for monitoring and tracking the progress of each project, including regular check-ins with both students and industry mentors.

- **Feedback Mechanism**

Creating a feedback loop where industry representatives can provide input on the relevance and feasibility of the proposed solutions

- **Documentation and Reporting**

  Encourage students to document their project work, methodologies, and findings.

  Require regular progress reports and a final comprehensive report at the end of the project

- **Project Showcases**

  Coordinate events where students can present and showcase their project outcomes to the Academic Advisory Council (AAC), industry partners, and the wider academic community.

- **Evaluate Project Impact**

  Assess the impact of the projects on addressing the identified industry problems.

  Use feedback from industry partners to measure the practical relevance of the solutions proposed by students

- **Continuous Improvement**

  Use insights from the AAC and industry partners to continuously improve the process, ensuring that future projects remain aligned with industry needs

- **Recognition and Awards**

  Recognize outstanding projects and contributions from students, faculty, and industry mentors through awards or commendations.

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In conjunction with the implementation phases, the '***Student Project Ideation Workshop (SPIW-23)***' took place on December 24, 2023, at SSM Institute of Engineering and Technology (SSMIET), where industry problem statements were displayed. Students from various departments who actively engaged in selecting their preferred problem statements. Each Project group, consisting of 3 or 4 students, had the opportunity to choose a maximum of two problem statements. After making their selections, students were required to register their batch details at the designated counter, and Project supervisors were subsequently assigned based on their specific interests and chosen problem statements.

The institution takes pride in serving the society and country by providing trained human resource in the field of engineering, grooming research scholars and knowledgeable entrepreneurs, generating many innovative projects, organizing training programs and serving as a center for conducting national level on-line examinations, thus leaving no stone unturned in the process of creating a better future for the people of this part of the nation.

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