SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution)

(Approved by AICTE, New Delhi / Affiliated to Anna University / Accredited by NAAC/ Accredited by NBA (ECE, EEE, MECHANICAL))

Dindigul – Palani Highway, Dindigul – 624 002

Institution's Innovation Council

MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)

MAJOR FOCUS OF IIC

- To create a vibrant local innovation ecosystem.
- Start-up supporting mechanism in HEIs.
- Prepare institute for Atal Ranking of institutions on innovation achievements framework.
- Establish function ecosystem for scouting ideas and pre-incubation of ideas.
- Develop better cognitive ability among students.

To create a vibrant local innovation ecosystem.

✓ Creating a vibrant local innovation ecosystem is about fostering an environment where creativity, collaboration, and entrepreneurship can flourish.

✓ It's about bringing together diverse stakeholders – students, faculty, entrepreneurs, investors, industry partners, and the local community – to

create a dynamic network that supports the generation, development, and commercialization of innovative ideas.

Here's a breakdown of the key elements involved in building such an ecosystem:

Culture of Innovation:

Encourage experimentation and risk-taking: Create a safe space where people feel comfortable trying new things, even if they fail. Celebrate both successes and failures as learning opportunities.

Promote open communication and knowledge sharing: Foster an environment where ideas can be freely exchanged and debated. Encourage collaboration and cross-disciplinary interaction.

Recognize and reward innovation: Acknowledge and celebrate individuals and teams who demonstrate creativity and innovation. This can be through awards, recognition programs, or even showcasing their work.

Start-up Supporting Mechanism in HEIs

Incubation Centers: Establish dedicated incubation centers that provide physical space, mentorship, funding opportunities, and networking support to student and faculty start-ups.

Entrepreneurship Education:

Integrate entrepreneurship courses and workshops into the curriculum to equip students with the skills and knowledge needed to launch and manage ventures.

Seed Funding: Create seed funding programs or access to angel investors and venture capitalists to support early-stage start-ups.

Legal and Regulatory Guidance: Offer legal and regulatory guidance to start-ups on intellectual property protection, company registration, and other compliance matters.

Industry Partnerships: Foster collaboration with industry partners to provide mentorship, internships, and market access opportunities for start-ups.

Prepare Institute for Atal Ranking of Institutions on Innovation Achievements (ARIIA) Framework

Innovation Policy: Develop a comprehensive innovation policy that outlines the institution's commitment to fostering innovation and provides guidelines for promoting and supporting innovation activities.

Innovation Cell: Establish an innovation cell to oversee and coordinate innovation initiatives, including ARIIA preparation.

Intellectual Property Management: Implement a robust intellectual property management system to protect and commercialize innovations.

Innovation Metrics: Track and measure innovation performance using relevant metrics, such as patents filed, start-ups incubated, and industry collaborations.

Faculty Development: Provide faculty development programs on innovation, entrepreneurship, and ARIIA framework to enhance their capacity to mentor and support student innovators.

Establish a Functional Ecosystem for Scouting Ideas and Pre-incubation of Ideas

Idea Competitions: Organize regular idea competitions and hackathons to encourage students to generate and showcase innovative ideas.

Mentorship Network: Establish a mentorship network of experienced entrepreneurs, industry experts, and faculty members to guide and support students in developing their ideas.

Design Thinking Workshops: Conduct design thinking workshops to help students develop user-centric solutions and refine their ideas.

Prototyping Facilities: Provide access to prototyping facilities, such as makerspaces and fabrication labs, to enable students to build and test their prototypes.

Pre-incubation Programs: Offer pre-incubation programs that provide early-stage support to promising ideas, including market research, business model development, and team formation.

Develop Better Cognitive Ability among Students

Critical Thinking Skills: Encourage critical thinking through problem-based learning, case studies, and debates.

Creativity and Innovation Courses: Offer courses that specifically focus on developing creativity, innovation, and design thinking skills.

Interdisciplinary Collaboration: Promote interdisciplinary collaboration through project-based learning and research initiatives.

Experiential Learning: Provide opportunities for experiential learning through internships, field trips, and industry collaborations.

Cognitive Enhancement Programs: Explore cognitive enhancement programs, such as mindfulness training and brain-based learning techniques, to improve students' cognitive abilities

By implementing these strategies, HEIs can create a vibrant local innovation ecosystem that nurtures talent, promotes entrepreneurship, and drives economic development. A strong innovation ecosystem will not only benefit the institution but also contribute to the growth and prosperity of the local community.