

3.2.1-IPR , Incubation Centre, EDC,IIC

3.2.1 Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Response:

We've cultivated a dynamic ecosystem designed to nurture creativity, inspire exploration, and facilitate the transfer of knowledge. Our initiative includes a diverse array of activities such as ideathons, hackathons, project exhibitions, seminars, workshops, and industrial visits. Through these initiatives, we empower both our students and faculty to innovate, collaborate, and make meaningful contributions to society.

Following are some key initiatives of the institute for the innovation ecosystem:

- **Institution Innovation Council:** The institution has established a thriving ecosystem for innovation, notably through the Institution Innovation Council (IIC-201912596), sanctioned by the All India Council for Technical Education (AICTE) and approved by the **Ministry of Education, Government of India** in 2019. The IIC-SMVITM aims to inspire, guide, and empower young engineering graduates to transform their ideas into prototype models. It serves as a unique innovation cell fostering innovative and entrepreneurial activities, contributing to a startup ecosystem within the institution.

Under the IIC initiative, various programs and events are conducted, including intellectual property sessions, entrepreneurship programs, start-up workshops, competitions, and sharing success stories of entrepreneurs.

- **National Innovation and Startup Policy (NISP):** The institute has set-up an Innovation and Startup Policy in-line with the National Innovation and Startup Policy (NISP-2019), following the guidelines from MoE's Innovation Cell.
- **Intellectual Property (IP) cell:** The institution has an **IP cell** that actively encourages and guides students and faculty in filing patents.
- **Incubation center:** The institution operates a sanctioned incubation center under the Ministry of Micro, Small & Medium Enterprises (MSME) with a primary objective of supporting interested stakeholders in the successful establishment of startups. Additionally, the center is dedicated to fostering innovation among students and faculty members for the development of new products. Notably, the incubation center has secured a grant of **Rs. 3,200,000.00** for three ideas submitted by faculty members.



Principal
SHRI MADHWA VADIRAJA
INSTITUTE OF TECHNOLOGY & MANAGEMENT
Vishwothama Nagar, Udupi Dist.
BANTAKAL - 574 115

- **Entrepreneurship Development Cell (EDC):** In line with national initiatives like 'Make in India,' 'Startup India,' and 'Standup India,' the **ED cell** organizes idea generation workshops, IDEATHON, Hackathon competitions, and industry visits.
- **Research and innovation Support:** The Institute established research centers in all engineering and basic science departments to foster research and innovation endeavors.
- **Well-Equipped Laboratories:** The institution boasts well-equipped laboratories, encouraging both students and faculty to actively participate in research and developmental activities. They are further motivated to submit research proposals to various government organizations and funding agencies, resulting in sponsored projects.
- **Idea Lab and Fab Lab:** The institute's Idea Lab and Fab Lab provide resources and support for faculty and students to develop innovative projects.
- **Indian Knowledge System:** The institution's curriculum integrates elements of the Indian knowledge system, emphasizing research and intellectual property rights through dedicated courses such as Social Connect and Responsibilities, Innovation and Design Thinking, Research Methodology, and Intellectual Property Rights.
- **Indian Society of Technical Education (ISTE):** All the teaching faculty members in the institute are Life Members of ISTE and all the students are enrolled as ISTE student members during their admission process itself. The ISTE faculty and student chapters at SMVITM have organized several technical programs like National Conferences, Seminars, Workshops, Faculty Development Programs, Technical Competitions, etc. Our Students are actively participating in national level and state level events and enthusiastically involved in organizing various events in the institution. As a result of their competence our college students have won the prestigious ISTE Best Student Award and Faculty chapter award.

Outcomes of the initiative

- **ARIIA/NIRF innovation ranking:** These efforts have positioned IIC-SMVITM as a high-performing institute, with star ratings of 4.5 in 2019-20, 4 in 2020-21, 3.5 in 2021-22, and 3 in 2022-23 out of 5 stars. Additionally, the institution is recognized in the band "PROMISING" category in **ARIIA ranking 2022** and placed in the band of top "150-300" under **NIRF-innovation category** in 2023.
- **YUKTI Repository:** SMVITM faculty members and students submitted 141 innovative ideas (Technology Readiness Level 1-3) and 111 innovative prototype (Technology Readiness Level 4, 5) have been submitted to the YUKTI portal repository. The submitted ideas are evaluated and recommended for participation in national level competitions.

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SMVITM

- **Mentor-Mentee Scheme:** IIC-SMVITM has been chosen as a mentor institution for the Mentor-Mentee Scheme for the years 2022-23 and 2023-24 by the Ministry of Education's (MoE) innovation cell. Out of 200 IIC institutions selected as mentors, IIC-SMVITM is recognized for its high performance, particularly those achieving a star rating of 3 and above in the previous IIC calendar year.
- Received total Rs. 65,00,000 funding for the innovative projects from the government agencies like MSME, KSCST, KSTA, VGST during the assessment period.
- We received Best project awards for innovative projects by KSCST, Bengaluru.
- Our students won prizes in National level Ideathon and Hackathon competitions.
- The institution has successfully extended its impact on society through the development of both hardware and software products catering to various societal needs. Among the hardware products created are innovative solutions such as a foot-operated hand sanitizer, a foot-operated wash basin, a leaf plate molding machine, and a solar grass cutter.
- On the software front, the institution has contributed significantly by developing solutions like a garbage management system for Udupi municipality, software tailored for Ayurvedic hospitals, a daily panchanga system, and specialized software for jasmine growers.
- Our faculty and students filed more than 20 patents, published 6 patents and received 1 patent granted.

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Principal
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