

Criteria 3: Research, Innovations and Extension

3.4 Extension Activity:

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years

SMVITM's commitment to holistic education, integrating formal curriculum-based learning with extracurricular activities, reflects a progressive approach towards nurturing well-rounded individuals. Extension activities play a crucial role in broadening the horizons of students and faculty members, exposing them to diverse perspectives, challenges, and opportunities beyond the confines of the campus. By actively engaging students in activities of NSS/YRC, IEEE – Eu-Reka, Anveshana, Atal Tinkering Lab, Unnat Bharath Abhiyan, the institution emphasizes the importance of selfless service to society and instills values of community service and social responsibility in the youth.

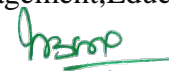
IEEE – Eu-Reka:

IEEE Eu-Reka's prime objective of "Elevating the Educational Reka" aligns with the broader goal of ensuring inclusive and equitable quality education while promoting lifelong learning opportunities. By empowering and encouraging college students to serve as Ambassadors of Education, Eu-Reka aims to foster a culture of learning and curiosity across all levels of society.

One of the key initiatives under Eu-Reka involves college student teams visiting high schools to conduct interactive programs related to STEAM (Science, Technology, Engineering, Arts, and Mathematics) topics. These programs are designed to ignite interest and curiosity among high school students, exposing them to advanced state-of-the-art technologies and promoting educational inclusiveness.

Over the past five years, our students actively engaged in this initiative have made significant strides in promoting education and STEAM subjects among high school students. By training more than 3500 high school students from 120 schools, Eu-Reka has had a tangible impact on expanding educational opportunities and fostering a passion for learning among young minds. Through these efforts, Eu-Reka not only enhances the educational experiences of high school students but also cultivates leadership and mentorship skills among our college students. By serving as role models and advocates for education, these Ambassadors of Education play a vital role in shaping the future of education and empowering the next generation of learners.

Students involved in IEEE Eu-Reka may have access to training sessions and workshops on topics such as innovation, entrepreneurship, project management, and intellectual property rights. These educational opportunities help students develop the skills and knowledge needed to succeed in their endeavors. The Institute conducted online training sessions to high school students to train in the areas like, Agriculture, Healthcare, Wastewater management, Education Sector etc.



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Anveshana:

Anveshana, as a "Student Empowerment Program," stands committed to fostering creativity in education, thereby empowering students to become more enterprising and innovative in their future endeavors. By providing a platform for collaboration between engineering students and high school students, Anveshana aims to address real-time societal problems through innovative models and solutions.

At the core of Anveshana's mission is the mentorship provided by undergraduate engineering students to high school students. Through this mentorship, high school students are not only guided in the creation of models but also encouraged to develop their conceptualization and leadership skills. Over the past five years, we trained 200 high school students from 20 schools, and a total of 100 innovative models have been created. These models not only showcase the creativity and problem-solving abilities of the students but also address pressing issues facing society. This experiential learning approach fosters creativity, critical thinking, and problem-solving skills among participants.

Engaging in collaborative problem-solving empowers students to become change agents and leaders in their communities. They develop leadership skills, teamwork abilities, and a sense of social responsibility, laying the foundation for future civic engagement and innovation. By providing a platform for collaboration and innovation, Anveshana empowers engineering students and high school students to work together towards addressing real-time societal problems, fostering a culture of entrepreneurship, and making meaningful contributions to the betterment of society.

Atal Tinkering Labs:

Atal Innovation Mission is establishing Atal Tinkering Laboratories (ATLs) in schools across India. The objective of this scheme is to foster curiosity, creativity, and imagination in young minds; and inculcate skills such as design mind set, computational thinking, adaptive learning, physical computing etc. with a vision to 'Cultivate one Million children in India as Neoteric Innovators'. In a collaborative effort, our institute has partnered with 15 schools in Udupi district that have ATL facilities. Our students actively engage in training sessions for school children, utilizing the resources available in the ATLs.

ATL labs provide students with the opportunity to work on real-world problems and develop innovative solutions using modern tools and technologies. The Institution conducted sessions like Arduino and its programming for school students and by demonstrating various application circuits using Arduino kits. Institution's ATL emphasize experiential learning through hands-on activities and project-based learning. Students are encouraged to engage in practical

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experimentation, collaborative projects, and tinkering to develop a deeper understanding of scientific principles and engineering concepts.

Unnat Bharat Abhiyan (UBA):

Unnat Bharat Abhiyan (UBA) is inspired by the vision of transformative change in rural development processes by leveraging knowledge institutions to help build the architecture of an inclusive India. Its aim is to have a paradigm shift in academic and research programs across the country. UBA seeks to integrate innovative solutions and technological advancements into rural development projects, fostering sustainable and impactful outcomes. Participation in the Unnat Bharat Abhiyan (UBA) offers unique opportunities for students, faculty, and the institution as a whole to engage in rural development activities.

One of the key aspects of UBA is the reorientation of Research and Development (R&D) methodologies. UBA encourages a paradigm shift in R&D design, emphasizing the importance of understanding local contexts, needs, and aspirations of rural communities. UBA provides a platform to undertake research projects focused on rural development. Students and faculty may work on innovative solutions, such as low-cost technologies, sustainable infrastructure, and eco-friendly practices, tailored to the needs of rural communities.

Participating in UBA, typically institutions adopt one or more villages near their campus. This adoption involves conducting comprehensive assessments of the village's needs, challenges, and existing resources. The institution adapted five villages and conducted many extension activities like Innanje village road survey, technical training to nearby colleges, training to pre university and high school teachers on use of technology in teaching etc., for the benefit of the village.

Activity Point:

The objectives of AICTE student activity is to expose students to real-time life challenges, to provide the opportunity to gather data, analyze data, propose solutions and implement solutions. Also, it paves the way for personal development and creative engineers who are proud volunteers with a sense of achievement and ready to take up projects having a social impact and creating digital awareness. Besides, it helps the students to strengthen their soft skills, leadership qualities and team spirit. Moreover, these activities inculcate entrepreneurial mindset and societal commitment.

Institute conducted various activities like, Awareness programme on cyber law and cyber crime, waste segregation and digital payment methods, Educating school students on programming skills like C and Python, building application for blood bank etc. Through these activities students improved their soft skills like social interaction, public speaking/communication and teamwork and Technical skills like survey-taking, data analysis

and report preparation. And also Got experience in developing small scale applications and Being able to undertake and manage small scale assignments.

To create awareness and sensitize students to social issues, NSS/YRC unit of the college organized a series of activities, including Swachh Bharat Abhiyan, Blood donation camp, Digital awareness program, Rainwater Harvesting and Water Conservation Awareness, Street play on Road Safety, Family relationships, Social Media Addiction Awareness etc.,


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