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2.3.1- Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process.

Swami Vivekananda Institute of Modern Science (SVIMS) has consistently prioritized creating a student-centric and student-friendly educational environment, aiming to foster an atmosphere conducive to experiential learning, participative methodologies, and effective problem-solving. The institution achieves these goals through the strategic use of Information and Communication Technology (ICT) tools, which significantly enhance the teaching-learning process.

SVIMS's pedagogical approach is designed to support student-centric learning, utilizing ICT to facilitate communication, create and disseminate information, and manage educational resources efficiently. While traditional teaching methods like the chalk-and-talk approach remain integral, faculty members are increasingly incorporating modern teaching aids such as PowerPoint presentations, videos, and various ICT tools. These tools, including smart panels, interactive whiteboards, projectors, tablets, and laptops, enrich the learning experience by providing students with engaging audio-visual content that aids in the absorption of information.

A notable advancement in SVIMS's instructional methods is the adoption of the flipped classroom model. This innovative approach allows students to engage with lecture materials at home, thereby freeing up classroom time for more interactive exercises, discussions, and hands-on activities. By encouraging students to take an active role in their learning, the institution fosters a deeper understanding of the subject matter, making the learning process more effective and engaging.

Experiential learning is a cornerstone of SVIMS's educational philosophy. The institution offers add-on courses that encourage students to engage in self-study beyond regular classroom hours. SVIMS promotes interaction between students and faculty through various ICT tools during lectures, tutorials, lab sessions, and project presentations. By conducting lab experiments that extend beyond the syllabus, organizing mini-projects, and hosting technical fests, SVIMS nurtures creativity and enhances cognitive skills among its students.

Participatory learning is another key element of SVIMS's approach. Students actively participate in seminars, group discussions, project work, and skill-based add-on courses, where they can apply their specialized technical or management skills. Collaborative activities such as lab experiments, project demonstrations, and industrial visits help students develop essential teamwork and communication skills. This engagement not only enriches their academic experience but also prepares them for real-world challenges.

To further develop students' problem-solving abilities, SVIMS organizes expert lectures on diverse topics and encourages participation in technical assessments. The institution places great emphasis on sincere engagement in academic activities, motivating students to excel in various evaluative tools, including quizzes, unit tests, periodic assessments, mock interviews, and viva-voce. This comprehensive evaluation system enables students to cultivate independent learning skills, supported by the availability of ICT tools and internet access within the college.

The faculty at SVIMS, being digitally literate and trained in ICT, plays a pivotal role in enhancing students' higher-order thinking skills. By offering creative and individualized options for expressing their understanding, teachers ensure that students are well-prepared to navigate the ongoing technological changes in their fields of study. Regular assessments, including assignments and quizzes, are conducted to gauge students' understanding and identify areas for improvement.

In conclusion, SVIMS's commitment to a student-centric approach, combined with the integration of ICT tools, creates a rich educational environment. By focusing on experiential, participatory, and problem-solving methodologies, the institution prepares its students for academic success and the future challenges of a rapidly evolving technological landscape.



A handwritten signature in blue ink, appearing to be "A. S. Chatterjee".

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