

Student-Centric Methods

1. Experiential Learning

- The Activity-Based Continuous Assessment System (ABCAS) is designed to ensure hands-on learning through various activities.
 - Group 1 activities include poster presentations, framing questions, open-book tests, model presentations, technical discussions, and dry runs to improve analytical and communication skills.
 - Group 2 activities focus on market surveys, case studies, innovative tech ideas, research activities, and coding & debugging to enhance problem-solving and technical expertise.
 - Industrial visits are an integral part, allowing students to observe real-world industry operations and apply classroom concepts to practical scenarios.
 - This framework fosters critical thinking, creativity, and application-based knowledge, making students more adaptable to industry demands.
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2. Participative Learning

- Encourages active student engagement through industry exposure, hands-on training, and interactive learning.
 - Club activities such as the Google Developer Student Club, Makers Lab, Hackathons (Smart India Hackathon and others), and Performing Arts Club help students explore their talents and technical expertise beyond textbooks.
 - Internships provide first-hand experience of corporate work environments, bridging the gap between academia and industry.
 - Seminars, workshops, and hands-on sessions enable students to gain deeper insights into new technologies and real-world applications.
 - Student-centric classroom activities like group discussions, role plays, brainstorming sessions, simulation games, and flip-the-role exercises encourage collaboration, leadership, and problem-solving.
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3. Problem-Solving Learning


- Focuses on developing analytical and critical thinking skills through structured problem-solving approaches.
- Case studies and quizzes challenge students to apply theoretical concepts in practical scenarios.
- Project-Based Learning (PBL) and capstone projects promote experiential learning by engaging students in real-world problem solving.

- This approach not only improves students' understanding of concepts but also prepares them for industry challenges, research projects, and entrepreneurship opportunities.
 - Emphasizes hands-on experience, teamwork, and innovation, making students confident problem-solvers in professional environments.
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4. ICT-Enabled Learning

- Technology-driven education is emphasized through digital tools and interactive learning methods.
 - Interactive whiteboards, online learning platforms, and virtual labs enable students to engage with concepts dynamically.
 - The in-house Learning Management System (LMS) provides a centralized platform for accessing study materials, assignments, and recorded lectures, ensuring continuity in learning.
 - Educational YouTube channels and e-learning resources offer self-paced learning options, supporting students in skill enhancement.
 - Virtual labs help students conduct experiments and simulations remotely, making learning more flexible and accessible.
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This document provides a detailed and comprehensive overview of student-centric learning at ITM Gwalior.


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Flowchart

