



Gnanamani College of Technology

(AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

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GCTPD#13

INNOVATIVE TEACHING & PEDAGOGICAL PRACTICES POLICY

- **Project-Based Learning (PBL):** Focuses on hands-on experience, where students work on real-world problems through mini-projects and major projects
- **Flipped Classrooms:** Students study course material beforehand, while class time is dedicated to discussions, problem-solving, and interactive activities
- **ICT-Enabled Learning:** Widespread use of Smart Classrooms, LCD projectors, and internet-enabled teaching to make sessions interactive
- **Virtual Labs & Simulations:** Using platforms like MATLAB, ANSYS, and virtual labs (e.g., vlab.co.in) for simulation-based experiments, particularly helpful during remote learning
- **Peer Learning/Mentorship:** Encouraging students to teach peers ("Each one teach one") to improve technical and communication skills
- **Gamification & Hackathons:** Organizing 24-hour hackathons and coding competitions to enhance coding skills and "placement readiness"

Industry-Aligned Curriculum & Training

- **Industry-Institute Interaction:** Signing Memorandums of Understanding (MoUs) to provide internships, industrial visits, and guest lectures
- **Value-Added Courses:** Offering training in emerging technologies to make students industry-ready
- **Case Study-Based Learning:** Using real-time, real-world case studies in assignments to bridge the gap between theory and application

Innovation & Entrepreneurship Ecosystem

- **Incubation Centers & Startups:** Providing specialized to convert student ideas into prototypes and products.
- **Intellectual Property Rights (IPR) Management:** Policies that outline IP ownership, encouraging faculty and students to patent their innovations.
- **Idea Tank/Generation:** Creating "Idea Tanks" to encourage multidisciplinary projects.

Evaluation & Mentorship

- **Outcome-Based Assessments:** Shifting away from just examinations towards tracking CO (Course Outcomes).
- **Faculty Development:** Regular training for faculty in advanced pedagogical techniques.

These practices are crucial for the accreditation process (e.g., NAAC/NBA) and ensure that graduates are industry-ready upon graduation

PRINCIPAL