



S.A.P.D. Jain Pathashala

Walchand Institute of Technology, Solapur

An Autonomous Institute

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Department of Electronics and Telecommunication Engineering Lab Details

Laboratory Name	Embedded and Automation Lab.
Laboratory Description	The Embedded and Automation Lab is established to provide hands-on exposure to embedded systems, automation technologies, and software-hardware integration that form the backbone of modern industrial and consumer electronic systems. The laboratory supports learning and experimentation in embedded programming, automation logic, system-level design, and application development using industry-relevant tools and platforms. It enables students to understand the interaction between software, hardware, and control logic, thereby strengthening their capability to design, implement, and debug embedded and automated systems used in real-world applications. The lab also supports curriculum-based practical's, mini-projects, and exploratory learning related to emerging embedded and automation technologies.
Lab Equipment	The laboratory is equipped with 46 new desktop computers, which are sufficient for conducting laboratory practical's related to recent and emerging technologies as prescribed in the curriculum. All systems are configured with Windows 11 Pro (64-bit) operating systems, providing a modern, secure, and industry-aligned software environment suitable for embedded development tools, automation software, simulation platforms, and programming environments. The availability of adequate computing resources ensures smooth execution of laboratory sessions, project work, and skill-based learning activities.
Lab Floor Area in square meters	113 sq.m. (approx..)
Practicals Engaged in Lab	Digital Signal Processing, Multidisciplinary Minor, Network and Security
Name of Lab Incharge	Dr. P.D.R.Patnaik
Associated Faculty with the lab	Dr. R.R.Mergu, Mr. S.N.Chamatgoudar, Mr. K.R.Biradar, Mrs. B.N Patil, Mr. S.P.Swami
Name of Lab Assistant	Mr. D.D.Kolape
Name/s of Menial Staff	Mr. M.T.Benaknalli