

Centre of Excellences at ABES Engineering College, Ghaziabad

Department of Electronics & Communication Engineering

1. Ni Innovation Lab (CoEL) for LabVIEW (Training)
2. Optical, Microwave and Antenna design (CoEL) for RF & μ Wave (Training).
3. VLSI Design (CoEL) for Back End VLSI (Training)

Department of Electrical & Electronics Engineering

4. Centre of Excellence for Industrial Automation
5. Centre of Excellence in Automation Technologies

Department of Mechanical Engineering

6. Centre of Excellence for AutoMobile

Research Facilities

S. No.	Name of Department	Lab, Software & other Research Facilities
1	ME	Advance Manufacturing lab CNC Modelling and simulation through solidwork and ANSYS+CFD Advance automobile lab with EV Technology Research Engine Lab 3D printer Profile projector Surface roughness Machine Wood router Machine
2	ECE	Optical & Microwave Lab, Spectrum Analyser, Vector Network Analyzer (VNA), PCB Prototyping Machine, Ansys Academic Teaching HF Computational simulation Tool Suite, HDL Design Software: XYLINX-ISE(14.7Version), Layout and Schematic Design Software: CADENCE Virtuso, Orcad P Spice, FPGA Boards
3	CSE	CISCO cyber security and networking Lab, UI Path, Codeblocks, VScode, Oracle, Mysql, Wireshark, Jupyternotebook, Pycharm, Java Eclipse, DE, Drawio, Packet Tracer, AWS
4	EN	Simulation & Compensator Unit (Model XPO): PID & Process Simulator PID Temperature Controller (XPO-PID): Thyristor & Actuator Solar Grid-Tide inverter with in-build data logger Solar Power Conditioning Unit Programmable through MATLAB Solar Charge Controller with Maximum Power Point Tracking Horizontal Axis Wind Turbine with 3-Phase AC permanent Magnet Generator with Artificial Wind Generating Unit Electro Pneumatic Lab Software: Auto-Sim Simulation, MATLAB