B.E. Electrical & Electronics Engineering

The Electrical and Electronics Engineering (EEE) program at GAT integrates essential courses in Electrical, Electronics, and Computer Engineering, providing students with a holistic education spanning these interconnected fields. Designed to encompass emerging technologies such as electric vehicles, renewable energy systems, smart grids, and IoT, the program allows students to specialize in areas aligned with their interests.

| Course Highlights

- **Comprehensive Curriculum:** Blends Electrical, Electronics, and Computer Engineering disciplines.
- **Sustainable Engineering:** Emphasizes green technologies and practices to tackle global challenges like climate change and energy efficiency.
- **Electric Vehicle (EV) Focus:** Develops expertise in power electronics, battery technology, and electric motor design for the evolving EV landscape.
- **Hands-on Experience:** Extensive laboratory work, projects, and internships complement theoretical knowledge.

| Key Initiatives and Achievements

- **Expert Sessions:** Conducted sessions on "Climate Change and Corrective Actions" and "Future Electricity Systems" by industry experts and senior engineers.
- **Value-Added Programs:** Offered courses on "Cloud Computing Fundamentals" with IBM Skill Build and "EV Design and Control using MATLAB" with NITK Surathkal.
- **Industry Visits:** Organized visits to prominent facilities like 220KV Substation Bidadi and Pavagada Solar Power Park.
- **Internships:** Students gained practical experience at leading companies including ABB, Toyota, and Enerfra Pvt.

| Future Career Avenues

- Power and Energy Sector
- Electronics and Semiconductor Industry
- Automotive Industry
- Software Development
- Higher Education & R&D