

AICTE *Approved*

B.Tech.

Electrical Engineering

with Hons./Minor Degree*

Electric Vehicles / Cyber Security / Robotics



SHRI VISHWAKARMA SKILL UNIVERSITY

(State University enacted under the Government of Haryana Act 25, 2016)

Campus : Village Dudhola, Distt. Palwal (Haryana) 121102
Transit Office : Plot No. 147, Sector 44, Gurugram (Haryana) 122003

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About the Program

NCrF Level: 6

Duration: 4 Years (8 Semesters)

Eligibility: As per AICTE/HSTES Norms

About the Program:

The global technological transformation in power sector and the automotive industry's shift toward sustainable, low-emission solutions, coupled with India's National Electric Mobility Mission Plan (NEMMP) 2020 targeting 30% electric mobility by 2030, have created a pressing need for a skilled workforce in electric vehicles (EV), cyber security, and robotics. These fields are pivotal for fostering sustainable growth and addressing emerging challenges in the digital and automated mobility ecosystem. Additionally, the rising demand for secure, interconnected electrical systems and advanced automation in industries underscores the importance of expertise in cyber security and robotics.

To meet these industry-driven demands, the Skill Department of Green Technology under the Skill Faculty of Engineering and Technology at Shri Vishwakarma Skill University has designed a 4-year Bachelor of Technology (Electrical Engineering) program with a Minor/Hons. in Electric Vehicles/Cyber Security/Robotics is developed in collaboration with leading industry partners and aims to educate, engage, and elevate skills in the EV ecosystem, secure digital infrastructure, and intelligent automation. It integrates core electrical engineering principles, including power distribution systems for efficient energy management, advanced control techniques for system stability, and circuit design for reliable performance, to support cutting-edge applications in the chosen specializations.

The program offers specialized courses to build domain expertise in the chosen minor degree/Hons. For Electric Vehicles, it covers battery-driven vehicle dynamics, motor drives, power electronic converters, batteries, battery management system and charging infrastructure, leveraging electrical engineering concepts like power electronics and efficient energy systems. The Cyber Security minor focuses on secured interconnected systems, threat mitigation, and data protection. The Robotics minor emphasizes automation, control systems, and intelligent machine design. Significant emphasis is placed on industry internships and industry-based projects to provide hands-on experience in these cutting-edge technological domains.

The Skill Department of Green Technology is committed to achieve academic excellence by offering skill-oriented, industry-aligned programs in the emerging fields. Through interdisciplinary engineering studies, the department strives to address social, environmental, and technological challenges, fostering sustainability and innovation for national and global needs.



Program Highlights

- ✦ AICTE Approved Program
- ✦ Education beyond Classrooms
- ✦ Project-based Learning
- ✦ State-of-the-art and World class infrastructure
- ✦ Industrial Grade Machines in Labs
- ✦ Highly experienced Faculties
- ✦ 100% Internships assistance
- ✦ Program designed in association with Industry Partners

Industry Partners

