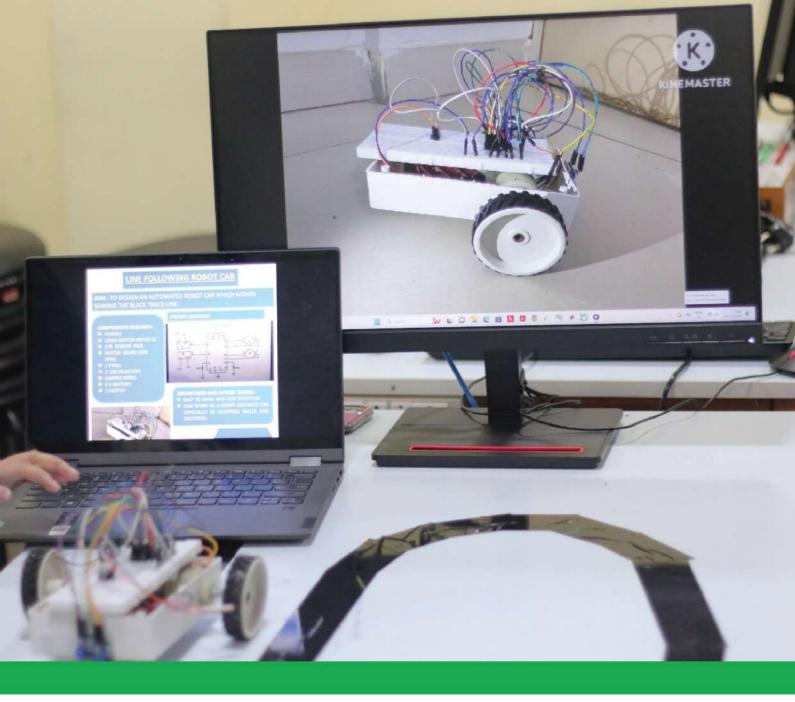


KIIT SCHOOL OF ELECTRONICS ENGINEERING

BTECH ELECTRONICS AND COMPUTER SCIENCE ENGINEERING

INFORMATION BROCHURE

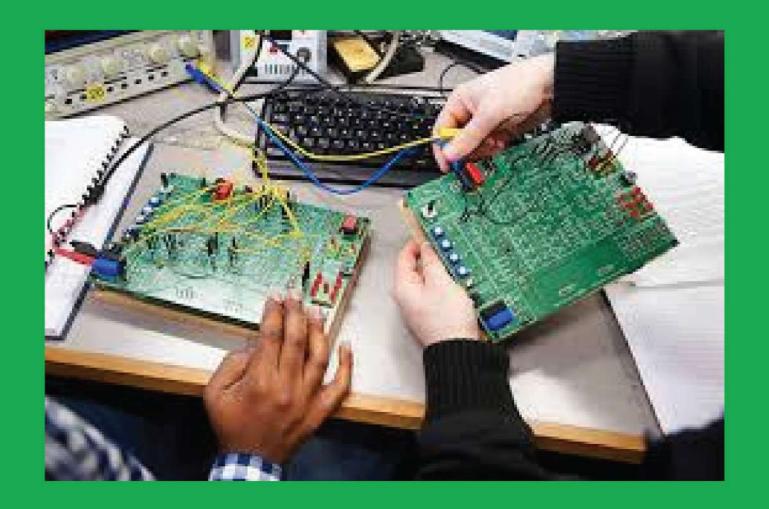


Electronics and Computer Science (ECSc) Engineering is an interdisciplinary field that integrates the principles of electronics engineering with computer science. This synergy addresses the increasing convergence of hardware and software technologies in the modern tech landscape.

SCOPE

- Hardware-Software Integration: ECSc emphasizes the seamless integration of electronic hardware with computer software, making it ideal for developing sophisticated systems and devices.
- Innovative Technologies: The program prepares students for cutting-edge fields like embedded systems, the Internet of Things (IoT), robotics, artificial intelligence (AI), and cybersecurity.





- Broad Applications: Graduates are equipped to work on diverse projects ranging from developing new computing devices to designing complex algorithms and systems for various industries.
- Emerging Fields: With the rise of technologies such as AI, machine learning, and IoT, ECSc professionals are at the forefront of innovation, contributing to advancements in smart devices, autonomous systems, and intelligent networks.
- Research and Development: The program often involves significant R&D components, encouraging students to push the boundaries of current technology and develop new solutions to complex problems.

OPPORTUNITIES CAREER PROSPECTS:

SOFTWARE DEVELOPMENT

Roles in developing software applications, systems software, and middleware that interact closely with hardware components.

CYBERSECURITY ANALYST

of data and

EMBEDDED SYSTEMS ENGINEER

Designing and programming embedded systems used in consumer electronics, automotive systems, medical devices, and industrial machines.

ADVANCED DEGREES

Graduates can pursue master's and doctoral programs in areas like computer science, robotics, data science, and electrical engineering.

AI AND MACHINE Learning specialist

Creating algorithms and systems for intelligent applications in various sectors, including finance, healthcare, and autonomous vehicles.

SPECIALIZED RESEARCH

Opportunities for research in fields such as quantum computing, bioinformatics, and advanced robotics, often leading to academic or high-level industry positions.

TECH GIANTS

High demand for ECSc graduates in leading technology companies like Google, Microsoft, Apple, and Amazon, which seek expertise in both hardware and software.

DIVERSE SECTORS

Opportunities in various industries such as automotive electronics, healthcare technology, consumer electronics, telecommunications, and defense.



CURRICULUM covers Core Subjects like

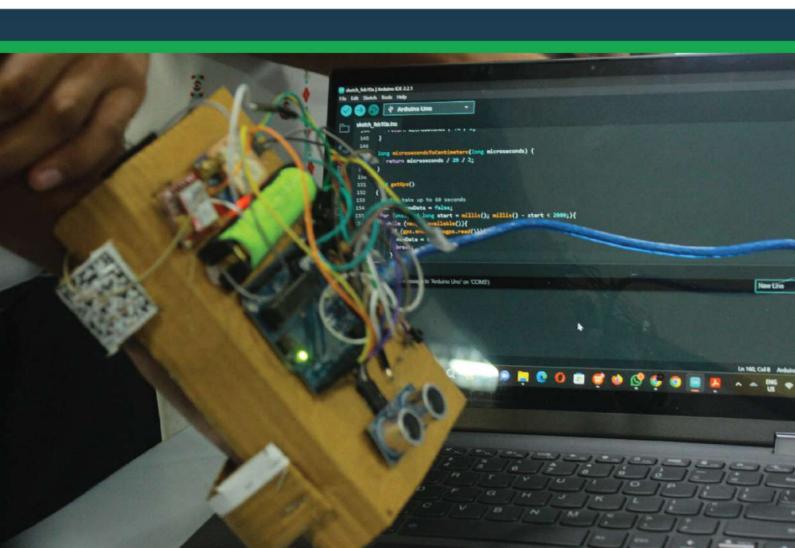
Electronic circuits, Microprocessors and Microcontrollers, Computer Architecture, Data Structures and Algorithms, Specialized Courses like Embedded Systems, Internet of Things (IoT), Machine Learning and AI, Robotics, Bioinformatics, Computational Intelligence, Data Science, Multimedia systems, Big Data Analysis and Cybersecurity



- Capstone Projects: Integrated projects that combine hardware and software elements, often sponsored by industry partners, providing hands-on experience in real-world problem-solving.
- Internships: Opportunities to work with tech companies and research institutions, gaining practical experience and industry exposure.
- Research Projects: Encouraging innovation through research in emerging technologies, often leading to publications and patents.

SUMMARY

The ECSc Engineering program offers a comprehensive and dynamic education, preparing students for the rapidly evolving tech industry. With a curriculum that blends hardware and software disciplines, numerous career opportunities, and a broad scope of applications, ECSc graduates are well-equipped to become leaders in technological innovation and development. Whether pursuing careers in tech giants, startups, or advanced research, ECSc engineers are pivotal in driving the future of technology.





CONTACT US

School of Electronics Engineering Campus-12, KIIT

Phone:

9658420040

8328856602

Compliance Cell compliance.electronics@kiit.ac.in dean_electronics@kiit.ac.in electronics.helpdesk@kiit.ac.in







in /electronicskiit

