ROBOTICS & AUTOMATION

Robotics and Automation represent a dynamic interdisciplinary field situated at the nexus of science, engineering, and technology. This domain encompasses the design, construction, and advancement of robots and automated systems tailored for manipulating, communicating, and orchestrating actions. Anticipated to underpin the trajectory of Industry 5.0 by 2030, robotics and automation are poised to permeate various facets of human existence, profoundly impacting sectors ranging from space technology to healthcare, from transportation to agriculture.

The convergence of Artificial Intelligence with robotics is poised to be the bedrock of future human advancement, augmenting industrial processes and revolutionizing diverse industries. The Industrial automation landscape, alongside the role of robotic machinery, is poised for heightened prominence in the forthcoming years, poised to reshape global industries and economic landscapes.

According to projections by the Boston Consulting Group (BCG), the global robotics market is anticipated to burgeon from its current valuation of approximately $25 billion to a prospective range spanning between $160 billion and $260 billion by 2030, underscoring the burgeoning significance of this domain on a global scale.

As industries increasingly embrace automation and Artificial Intelligence, a corresponding surge in opportunities emerges for professionals possessing specialized expertise in robotics and automation. This interdisciplinary realm encompasses facets of mechanics, electrical engineering, electronics engineering, computer science, artificial intelligence, advanced mathematics, and the Internet of Things (IoT), offering a multifaceted landscape ripe with prospects for skilled practitioners.

B.Tech: Robotics & Automation

RAAK College of Engineering & Technology offers a four-year Robotics & Automation degree program, aligned with the Pondicherry University syllabus.

The Curriculam foucs areas are :

- Sensors and Instrumentation
- Digital Electronics
- Kinematics and Dynamics of Machines
- Embedded Systems
- Robotic Control System
- Programming
- Digital systems

Career Pathways

- Robot Design Engineers
- Robotics programmer
- Robotics
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- Aerospace
- Algorithm Engineers
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CONTACT US

ADDRESS

No.1, Muthupillai Palayam Road,
G.N.Palayam, Sulthanpet Post,
Puducherry - 605 110.

EMAIL & WEBSITE

raakengg@gmail.com
www.raakengg.edu.in

PHONE NUMBER

99437 66786, 88254 12450

93848 22653, 91591 19966

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B.TECH : ROBOTICS & AUTOMATION