



# ST. TERESA'S COLLEGE (AUTONOMOUS), ERNAKULAM

Affiliated to Mahatma Gandhi University, Kottayam  
Re-Accredited by NAAC with A++ Grade in Fourth Cycle  
NIRF Ranking 60 (2025) | KIRF Ranking 2 (2025) | [www.teresas.ac.in](http://www.teresas.ac.in)

## ROBOTICS AND AUTOMATIONS

The course aims to introduce students to the fundamentals of robotics and automation, fostering practical skills in electronics, programming, and system integration. It is designed to develop problem-solving abilities, encourage innovation, and prepare students for careers in emerging tech-driven industries.

### COURSE OUTCOMES

Upon successful completion of the course, students will be able to:

1. Understand the basic concepts of robotics, automation, and embedded systems.
2. Build and program simple robotic systems using microcontrollers.
3. Integrate sensors and actuators for real-world applications.
4. Develop hands-on skills in circuit design
5. Apply problem-solving techniques in robotics projects.
6. Gain confidence to pursue careers or further studies in robotics, automation, or related fields.

**Certificates will be issued by  
AICRA, KERALA STARTUP MISSION, NSDC, STARTUP INDIA**

**Duration  
1 YEAR**