

ROBOTICS

Led by Uzair and Saqib

Overview

This program introduces students to the fundamentals of robotics, combining design thinking, hands-on building, and basic programming. Through guided challenges and real-world projects, students learn how to turn ideas into working prototypes while developing essential problem-solving and collaboration skills.

What You Will Learn

- ➔ Introduction to Design Thinking and its real-world application
- ➔ Product ideation, prototyping, and testing through guided challenges
- ➔ Basics of robotics systems & mechanical design
- ➔ Understanding core components: motors, gears, and structures
- ➔ Fundamentals of programming & computational thinking
- ➔ Working with sensor integrations in prototypes
- ➔ Building real-world projects combining design, coding, and robotics
- ➔ Team-based tasks focusing on communication and presentation

Methodology

- ➔ Design Thinking: Understanding problems and creating real-world solutions
- ➔ Build & Create: Hands-on development of robotic models
- ➔ Coding & AI: Logic-based programming and problem-solving

LEARNING OUTCOMES

By the end of this program, students will:

- ➔ Develop strong problem-solving confidence
- ➔ Enhance creativity and innovation skills
- ➔ Create and present their own original ideas/projects
- ➔ Gain basic technical and coding skills
- ➔ Improve teamwork, communication, and presentation skills

PROGRAM DETAILS

FEE: PKR 6,500

DAYS: TUESDAY - THURSDAY

TIME: 2PM TO 3PM - 3PM TO 4PM