



AI & Robotics Department / Curriculum (2-Years)

Project-Based Learning (PBL)

AI track (3 credit each)	Robotics track (3 credit each)	Convergence PBL track
Introduction to Computer Science Introduction to Python Practical Exercise of Information Process Operating Systems	Introduction to Mechatronic Systems Basics of Electronics and Sensors CAD Basics Programming fundamentals	Electric Vehicle Development (6) Quadcopter Development (6) Smart Factory Design (6) Autonomous Driving Control (6) Capstone Design (6)
Machine Learning Fundamentals Object-Oriented Programming Database Management Systems Data Structures	Digital Electronics and Microcontrollers Electrical and Electronic Circuit 3D CAD Introduction to Robotics	
Computer Vision AI Practice IoT Programming Mobile Programming	CAD for Manufacturing Embedded System Electric Drives and Propulsion Sensors and Actuators	
Deep Learning Natural Language Processing Big Data Practice Web Programming Practice	Drones and Unmanned Aerial Vehicles Electric Vehicle Industrial Automation Robot Vision Systems	
48 credits	48 credits	

