

MSc Robotics Modules

Students may use [NUSMODS](#) to search for module descriptions.

Core Modules

ME5421	Robot Kinematics (2MCs)
ME5409	Robot Dynamics and Control (2MCs)
ME5410	Materials, Sensors, Actuators & Fabrication in Robotics (4MCs)
ME5411	Robot Vision and AI (4MCs)
ME5400A	Robotics Project 1 (4MCs)

Elective Modules

ME5400B	Robotics Project 2 (4MCs)
ME5412	Robotics for Healthcare (4MCs)
ME5413	Autonomous Mobile Robotics (4MCs)
ME5414	Optimization Techniques for Dynamic Systems (4MCs)
ME5415	Advanced Soft Robotics (4MCs)
ME5416	Mathematics for Robotics Engineering (4MCs)
ME5418	Machine Learning in Robotics (4MCs)
ME5419	Probabilistic Robotics for Manipulation (4MCs)
ME5420	Advance Robot Mechanics and Control (4MCs)
EE5112	Human-Robot Interaction (4MCs)
EE5113	Robot Perception (4MCs)
EE5114	Autonomous Robot Navigation (4MCs)
EE5115	Social Robotics (4MCs)
BN5211	Medical Robotics (4MCs)
CS5446	AI Planning and Decision Making (4MCs)

(Not all modules listed above are necessary available in any one year.)