MINOR PROGRAMME IN Mechanical and Automation Engineering

Engineering has permeated into all sectors of modern society with its great many successes and advancements in recent decades. A strong emergence of this happening is in the areas of automating and intelligent machines and systems, with applications now covering not only the traditional industries, but also the design and making of personal devices, home appliances, entertainment systems, automobiles, microelectromechanical systems, and biomedical engineering and more. A basic exposure and knowledge in this particular field is pertinent in one's ability and vision to understand and anticipate the next development trend and opportunities. In light of this relevancy, our interdisciplinary Minor Programme in Mechanical and Automation Engineering was introduced to cover the fields of mechanics, electronics, control and computing, which are the building blocks of the new generation of autonomous engineering systems. Our goal is to equip our minor students with the key background in mechanical and automation system design and integration on top of their major specializations. Our programme will serve to uniquely enhance their competitiveness in the job market and equip them with the flexibility and versatility to perform, adapt and excel in face of the new challenges ahead in a technological evolving world.

Minor Programme Requirement

Students are required to complete a minimum of 18 units of courses as follows:

Required Courses (6 units) MAEG2020/ESTR2400 Engineering Mechanics MAEG3060/ESTR3408 Introduction to Robotics

Elective Courses (12 units)

EEEN3030/ESTR3402 Engineering Materials MAEG2030/ESTR2402 Thermodynamics MAEG3010 Mechanics of Materials MAEG3020/ESTR3404 Manufacturing Technology MAEG3030 Fluid Mechanics MAEG3040 Mechanical Design MAEG3050/ESTR3406 Introduction to Control Systems MAEG3050/ESTR3406 Introduction to Control Systems MAEG3070 Fundamentals of Computer-Aided Design MAEG3080 Fundamentals of Machine Intelligence MAEG4010/ESTR4408 Computer-Integrated Manufacturing MAEG4020/ESTR4410 Finite Element Modelling and Analysis MAEG4030/ESTR4412 Heat Transfer MAEG4030/ESTR4414 Mechatronic Systems MAEG4050/ESTR4416 Modern Control Systems Analysis and Design MAEG4060 Virtual Reality Systems and Applications MAEG4080/ESTR4420 Introduction to Combustion

Enquiry

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