

## **UNIVERSITI TEKNOLOGI MARA**

## **ESE357: INDUSTRIAL AUTOMATION**

Course Name (English)	INDUSTRIAL AUTOMATION APPROVED
Course Code	ESE357
MQF Credit	3
Course Description	The course deals with fundamental concepts in automation, building blocks of automation. Introduces the industrial logic control system and sequence control using electronic logic components in simple industrial application, transducers and controllers, drivers and final control elements.
Transferable Skills	Acquire the fundamental concepts of industrial automation. Gain the concepts of industrial logic, process and control system, sensor and actuator. Use relevant maintenance objectives and safety knowledge.
Teaching Methodologies	Lectures, Tutorial
CLO	CLO1 Acquire the fundamental concepts of industrial automation CLO2 Gain the concepts of industrial logic, process and control system, sensor and actuator. CLO3 Use relevant maintenance objectives and safety knowledge
Pre-Requisite Courses	No course recommendations
Reading List	Recommended Text  J. Stenerson 2002, Industrial Automation and Process Control, First Ed., Prentice Hall  M.P. Groover 2006, Automation, Production Systems, and Computer-Integrated Manufacturing, Third Ed., Prentice Hall  R.L. Shell 2000, Handbook of Industrial Automation, Marcell Dekker Ltd  T. J. Maloney 2003, Modern Industrial Electronics, Fifth Ed., Prentice Hall
Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources