Smart Manufacturing (EMI), Micro Credential(9 Credits)

ENGS-U-MP-001

Admitted Academic Year：2026

Program's Descriptions：

Let students have the ability to apply smart manufacturing technology and use computer-assisted software to learn different technologies across fields.

Program's Curriculum：

Required/ Elective	Course Number	Course name	Credit	Course Clusters
Elective	INEN2021	INTRODUCTION TO TECHNOLOGY MANAGEMENT	3	1.基礎
Elective	PSD2082	INTELLIGENT INJECTION MOLDING	3	1.基礎
Elective	AERO6001	FINITE ELEMENT METHODS	3	1.基礎
Elective	AERO7011	GAS KINETIC THEORY	3	1.基礎
Elective	MCAE2025	COMPUTER-AIDED SIMULATION ANALYSIS	3	2.進階
Elective	MCAE2026	CYBER-PHYSICAL SYSTEMS FOR ADDITIVE MANUFACTURING TECHNOLOGIES	3	2.進階
Elective	PSD3011	IMAGE RECOGNITION	3	2.進階
Elective	MCAE3100	CONTROL SYSTEM	3	2.進階
Elective	MCAE6004	ADVANCED MATERIALS AND ADDITIVE MANUFACTURING	3	2.進階
Elective	DATS6061	FINANCIAL MODELING AND SIMULATIONS	3	2.進階
Elective	INEN6080	SCHEDULING THEORY AND APPLICATIONS	3	3.應用
Elective	MCAE6991	SEMINAR(1)	1	3.應用
Elective	MCAE6992	SEMINAR(2)	1	3.應用

Total credits： 9　　Required credits： 0　　Elective credits： 9

Industrial Classification：

C00	Manufacturing

Guidelines for Program Completion：

Management Unit： College of Engineering and Science / College of Engineering and Science