

## 113學年度機械系(含能源所)EMI課程地圖

### Department of Mechanical Engineering, Academic year 113 EMI Course map

課號 Course Code	課程名稱 Course Name	修課年級 Year	學分數Credit		備註 Note
			上學期Fall	下學期Spring	
EG1001-E	工程程式設計 Programming for Engineering	機械系一年級 Department: Department of Mechanical Engineering only. Year: First Year only.	3	X	必修 Required
ME2001-B	工程數學I Engineering Mathematics I	機械系二年級 Department: Department of Mechanical Engineering only. Year: Second Year only. Student ID: even numbers Only.	3	X	必修 Required
ME2035-B	機構學 Mechanisms	機械系二年級 Department: Department of Mechanical Engineering only. Year: Second Year only. Class: B only.	3	X	必修 Required
ME2035-C	機構學 Mechanisms	機械系二年級 Department: Department of Mechanical Engineering only. Year: Second Year only. Class: C only.	3	X	必修 Required
ME3001	電腦輔助製圖 Computer-aided Graphics	機械系三、四年級 Department: Department of Mechanical Engineering only. Year: Third Year、Fourth Year only.	3	X	選修 Elective
ME4016	中等材力 Intermediate Mechanics of Materials	機械系三、四年級 Department: Department of Mechanical Engineering only. Year: Third Year、Fourth Year only.	3	X	選修 Elective
ME4301	Python程式設計 Programming with Python	機械系四年級 Department: Department of Mechanical Engineering only. Year: Fourth Year only. Specific Subject Requirements: Prerequisite Course Requirement EG1001 only.	3	X	選修 Elective
ME5027	高等應用數學 Advanced Applied Mathematics	碩博同修 Doctoral-Master	3	X	選修 Elective
ME5029	逆向工程 Reverse Engineering	碩博同修 Doctoral-Master	3	X	選修 Elective
ME5083	奈米工程 Nanotechnology	碩博同修 Doctoral-Master	3	X	選修 Elective
ME5096	統計學 Statistics	碩博同修 Doctoral-Master	3	X	選修 Elective
ME5204	製造聯網技術 Manufacturing Network Technologies	碩博同修 Doctoral-Master	3	X	選修 Elective
ME5208	深度學習與電腦視覺應用 Deep Learning and computer vision applications	碩博同修 Doctoral-Master	3	X	選修 Elective
ME6000	數值分析 Numerical Analysis	碩博同修 Doctoral-Master	3	X	選修 Elective

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ME6051	金屬成型 Metal Forming Process and Analysis	碩博同修 Doctoral-Master	3	X	選修 Elective
ME6061	機器人學 Robotics	碩博同修 Doctoral-Master	3	X	選修 Elective
ME6096	車輛動力學 Vehicle Dynamics	碩博同修 Doctoral-Master	3	X	選修 Elective
ME7056	線性系統 Linear Systems	碩博同修 Doctoral-Master	3	X	選修 Elective
ME7069	數位控制 Digital Control System	碩博同修 Doctoral-Master	3	X	選修 Elective
ME8002	移動式機器人 Mobile Robot	碩博同修 Doctoral-Master	3	X	選修 Elective
ME8014	機械專題研究(E) (課程名稱：電化學能源系統) Special Topics in Mechanical Engineering (E) (Electrochemical Energy Systems)	碩博同修 Doctoral-Master	3	X	選修 Elective
ME1006-A	靜力與材料力學 Statics & Mechanics of Materials	機械系一年級 Department: Department of Mechanical Engineering only. Year: First Year only.	X	4	必修 Required
ME2002-B	工程數學 II Engineering Mathematics II	機械系二年級 Department: Department of Mechanical Engineering only. Year: Second Year only. Specific Subject Requirements: Prerequisite Course Requirement ME2001 only. With an average of 40 or above for Required Subjects.	X	3	必修 Required
ME2004	基礎工程光學II Basic Engineering Optics II	機械系二年級 Department: Department of Mechanical Engineering only. Year: Second Year only. Class: A only. Specific Subject Requirements: Prerequisite Course Requirement ME2003 only. With an average of 40 or above for Required Subjects.	X	3	必修 Required
ME2073-B	熱力學(I) Thermodynamics I	機械系一年級 Department: Department of Mechanical Engineering only. Year: First Year only. Class: B only.	X	3	必修 Required
ME4071	冷凍空調 Refrigeration and Air-Conditioning	機械系三、四年級 Department: Department of Mechanical Engineering only. Year: Third Year、Fourth Year only.	X	3	選修 Elective
ME5049	高等熱傳 Advanced Heat Transfer	碩博同修 Doctoral-Master	X	3	選修 Elective

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ME5071	影像工程概論 Fundamental Theory and Engineering Application of Machine Vision	碩博同修 Doctoral-Master	X	3	選修 Elective
ME6077	電子裝備冷卻 Electronic Equipment Cooling	碩博同修 Doctoral-Master	X	3	選修 Elective
ME6107	創新連桿機構運動學 Kinematics of Innovative Linkage Mechanisms	碩博同修 Doctoral-Master	X	3	選修 Elective
ME7030	醫療機器人設計導論 Introduction to the Design of medical	碩博同修 Doctoral-Master	X	3	選修 Elective
ME7049	腐蝕與防蝕工程 Corrosion and Corrosion Prevention Engineering	碩博同修 Doctoral-Master	X	3	選修 Elective
ME7096	流動穩定學 Hydrodynamic Stability	碩博同修 Doctoral-Master	X	3	選修 Elective
OM5006	光學機構系統設計與分析 Design and Analysis of Opto- Mechanical Systems	碩博同修 Doctoral-Master	X	3	選修 Elective
ER5023	能源技術創意實作II Research Project on Energy Technology	碩博同修 Doctoral-Master	X	3	選修 Elective