

國立高雄科技大學

111 學年度第 2 學期模具工程系博士班

資格考方式及命題範圍公告

考試學生	考試科目	考試方式	參考書籍	命題範圍	考試時間	考試地點
簡恩玄	機械製造	關書考試 (Close book)	1. Serope Kalpakjian and Steven R. Schmid, Manufacturing Engineering and Technology, Pearson Education South Asia Pte Ltd, 7th Edition in SI Units, 2014. 2. J. T. Black, E. Paul DeGarmo, Ronald A. Kohser, DeGarmo's Materials and Processes in Manufacturing, John Wiley & Sons Ltd, 10th Revised or newer edition.	1. General Introduction 2. Fundamentals of Materials: Behavior and Manufacturing Properties, including the Structure of Metals, Mechanical Behavior, Testing and Manufacturing Properties of Materials, Metal Alloys, Ferrous Metals and Alloys, and Polymers. 3. Forming and Shaping Processes and Equipment, including Metal-rolling, Metal-forging, Metal Extrusion and Drawing, Sheet-metal Forming, Powder Metal, Ceramics, Glasses, Superconductors Processing and Equipment and Plastics and Composite Materials, and Rapid-prototyping Processes and Operations. 4. Machining Processes and Machine Tools, including Abrasive Machining and Finishing Operations, and Advanced Machining Processes and Equipment. 5. Micromanufacturing and Fabrication of Microelectronic Devices, including Fabrication of Microelectronic Devices, and Fabrication of Microelectromechanical Devices and Systems and Nanoscale Manufacturing.	112 年 6 月 02 日 (週五) 09:00~11:00	模 203

June Raymono	工程數學	關書考試 (Close book)	1. Erwin Kreyszig, "Advanced Engineering mathematics", 10 th Edition	A. Ordinary Differential Equations (ODEs) 1. First-Order ODEs 2. Second-order Linear ODEs 3. Higher-Order Linear ODEs 4. Systems of ODEs 5. Power Series Method 6. Laplace Transforms	109 年 12 月 25 日 (週五) 09:00~11:00	模 203
June Raymono	熱傳學	關書考試 (Close book)	1. "Heat Transfer", J.P. Holman 2. "Introduction to Heat Transfer", V.S. Arpaci, A. Selamet and S.H. Kao	1. Conduction Heat Transfer 2. Convection Heat Transfer 3. Radiation Heat Transfer	109 年 12 月 25 日 (週五) 14:30~16:30	模 203