List of Recommended Textbooks (Part Time Programme):

- **Mechanical Engineering (core courses)**
- **Specializations (major prescribed electives)**

*Note: Students are advised to check with Course Coordinator/Lecturer for the latest updates of Textbooks/References*

**FE1012 Physics A**
- Randall D. Knight, Brian Jones, and Stuart Field, College Physics: A Strategic Approach, Addison Wesley

**MA0100 Environmental Sustainability**
- NIL

**MA0101 Singapore Studies**

**MA1001 Dynamics**

**MA1002 Fundamental Engineering Materials**

**MA1003 Essential Mathematics**

**MA2001 Mechanics of Materials**

**MA2002 Theory of Mechanism**

**MA2003 Introduction to Thermo-fluids**

**MA2004 Manufacturing Processes**

**MA2005 Engineering Graphics**

**MA2006 Engineering Mathematics**

**MA2007 Thermodynamics**

**MA2009 Introduction to Electrical Circuits & Electronic Devices**

**MA2071 Laboratory Experiments**
- NIL

**MA3001 Machine Design**
- Machine Elements in Mechanical Design, Robert Mott, Pearson, 2006

**MA3002 Solid Mechanics and Vibration**

MA3003 Heat Transfer

MA3004 Mathematical Methods in Engineering
• Kreyszig E, Advanced Engineering Mathematics, 8th or 9th edition, John Wiley & Sons.

MA3005 Control Theory

MA3006 Fluid Mechanics

MA3071 Mechanical Experiments
• NIL

MA4001 Engineering Design

MA4002 Fluid Dynamics

MA4003 Materials and Process Selection in Design

MA4079 Final Year Project
• NIL

MA4804 Optimization Theory and Applications

MA4831 Computer-aided Engineering

MA4837 Net Shape Manufacturing
• NIL

MA4838 Non-conventional Manufacturing Processes

MA4839 Precision Manufacturing

MA4842 Metrology
• D.L Butler &.V.M. Murukeshan, Metrology for Engineers, intended publication date: early 2011

MA4843 Management of Product Development

MA4844 Industrial Design
• NIL

**MA4845 Prototyping and CAM**

**MA4846 Product Design Engineering**

**MA4847 Human Factors Engineering**

**MA4850 Supply Chain and Logistics Management**

**MA4853 Manufacturing Systems**

**MA4854 Quality Assurance and Management**

**MA8103 Human Resource Management**