國立台灣科技大學 114學年 第2學期　課程大綱

Spring 2026 NTUST Course Outline

授課教師：林承哲

Instructor:Cheng-Jhe Lin

課程名稱：人因工程學

Course Title：Human Factors

2026/11/3

課程代號： IM4606302 Course Code 學分數： 2 Credits	必選修：必修/半學年 Required/Electve:Required/Half Yr. 先修課程： Prerequisites
節次教室： Time/Location	T6(MA-417) T7(MA-417)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	n/a
課程宗旨： Course Objectives	This course aims to let students recognize humans' capabilities and limitations so that scientific and engineering principles can be applied to design tasks, devices, processes, working environments, and their interactions in human-machine systems. After taking this course the students are expected to have adequate knowledge and skills to ensure safety, efficacy, and efficiency, and to improve the welfare and satisfaction of the system's stakeholders.
課程大綱： Outline of Lectures	2/24 Introduction to Human Factors Engineering 3/3 Information Input and Processing (1) 3/10 Information Input and Processing (2) 3/17 Visual Displays of Dynamic Information (1) 3/24 Visual Displays of Dynamic Information (2) 3/31 Auditory, Tactual & Olfactory Displays 4/7 Physical Work (1) 4/14 Midterm Exam 4/21 Physical Work (2) 4/28 Manual Materials Handling (1) 5/5 Manual Materials Handling (2) 5/12 Motor Skills 5/19 Control and Data Entry Devices 5/26 Workplace Design 6/2 Human Factors in Systems Design 6/9 Final Exam
授課方式： Method of Instruction	講授 Lecture：70% 分組討論 Group discussion：5% 案例研討 Case study：25% 操做練習 Practical exercises：0% 講授 Lecture：%
教科書： Textbooks	Human Factors in Engineering and Design(7th Edition), Mark S.Sanders & Ernest J. McCormick （ISBN:978-986-157-217-8）
參考書目： References	Introduction to Human Factors and Ergonomics (4th Edition), Bridger R.S (ISBN: 978-1-4987-9594-4)

修課須知： Notice	1. The instructor will provide a study guideline that lists roughly 80% of topics to be tested before exams. The guideline may not cover the other 20%. 2. The class schedule and the abovementioned note are subject to change through discussion with the class.
評量方式： Grading	Homework 5% Participation 10% Quizzes 25% Midterm Exam 35% Final Exam 35%
備註說明： Notes	1. This is an EMI (English as a Medium of Instruction) course and you are required to use English in the class to ask questions, answer questions, and interact with classmates. 2. Attendance will be taken in all class meetings. Absence without a legitimate reason will result in 1 point deducted from the total score until 10 points are deducted or the total score is lower than 60 points. 3. Homework may be assigned during any class and you have to turn it in before the class on the designated.