

## 國立清華大學課程大綱

科號		組別		學分	3	人數限制	
上課時間				教室			
科目中文名稱							
科目英文名稱	System Approach to Human-Machine Systems						
任課教師	張堅琦、盧俊銘						
擋修科目				擋修分數			

一、課程說明	This course introduces system approach to the design and evaluation of man-machine systems, which aims to help students build background knowledge and skills through the study theories and applications in various systems.
二、指定用書	N/A
三、參考書籍	Millot, P. (Ed.). (2014). Designing Human-machine Cooperation Systems. John Wiley & Sons. (ISBN: 9781848216853)
四、教學方式	<ol style="list-style-type: none"> <li>1. Lectures</li> <li>2. Case studies</li> <li>3. Group discussions</li> </ol>
五、教學進度	<ol style="list-style-type: none"> <li>1. Introduction to Human Factors Engineering / Ergonomics</li> <li>2. Ergonomics and Man-Machine Systems</li> <li>3. Mental Workload and Human Errors</li> <li>4. Fitting the Physical Diversity of Human Beings</li> <li>5. Input Design and Operations</li> <li>6. Output Design and Displays</li> <li>7. System Flow Design</li> <li>8. Teleoperation and Monitoring</li> <li>9. Error Detection and Processing</li> <li>10. Human Errors and Accidents</li> <li>11. Human-Machine Cooperation</li> <li>12. Evaluation of Man-Machine System</li> <li>13. Man-Machine System Design of Computer Systems</li> <li>14. Man-Machine System Design of Mobile Devices</li> </ol>
六、成績考核	Participation and Attendance 10% Midterm Exam 20% Reading Assignment 20% Final Presentation 20% Term Report 30%
七、講義位址 http://	