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| **Course Information** |

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| Course title | Real-times Systems |
| Semester | 103-1 |
| Designated for | COLLEGE OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE  GRADUATE INSTITUTE OF NETWORKING AND MULTIMEDIA |
| Instructor | [TEI-WEI KUO](https://nol2.aca.ntu.edu.tw/nol/coursesearch/teacher.php?op=s2&td=902059) |
| Curriculum Number | CSIE5063 |
| Curriculum Identity Number | 922 U1650 |
| **Course Syllabus** | |
| **Please respect the intellectual property rights of others and do not copy any of the course information without permission** | |
| Course Description | 課程大綱： 1. Introduction to Real-Time Systems 2. Real-Time Process Scheduling a. Single-Processor Scheduling b. Multiprocessor Scheduling 3. Resource Synchronization and Management 4. Sporadic Servers 5. System Analysis - the Rate Monotonic Analysis 6. System Synthesis 7. Overview on Real-Time Databases and Disk Scheduling 8. Real-Time Kernel Implementations |
| References | 1.Jean J. Labresse, “MicroC/OS-II : The Real-Time Kernel,” 2nd Edition, CMP Books, 2002 (天瓏). 主要參考書籍： 2.Jane W.S. Liu, “Real-Time Systems,” Prentice Hall, 2000 (維科). 3.Kam-Yiu Lam and Tei-Wei Kuo, “Real-Time Database Systems: Architecture and Techniques,” Kluwer Academic Publishers, 2000. |