

10810IPHD700100 iPhD Seminar (書報討論)

Instructor : Chair Professor Chen-Fu Chien, Ph.D. (簡禎富講座教授)

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Time : W6W7 (Wednesday 14:20 ~ 16:20)

Classroom : GEN II(綜二) 205

Course Description

This course aims to broaden the Ph.D. students' horizon in different areas. This course starts with a warm-up session to introduce the concept of manufacturing intelligence and decision analysis. This course will also invite speakers to share their cutting-edge research and experiences. The participating students are required to review and present the up-to-date literature by themselves. In the end of the semester, a term paper and the oral presentation, will be required to summarize what they have learned through the semester.

| Week | Date | Speaker | Topic | Field | Affiliation |
|------|-------|---|---|---|---|
| 1 | 9/11 | iPhD. Program Orientation | | | |
| 2 | 9/18 | Academician Burn-Jeng Lin, (林本堅院士) | My Philosophy of Life | Immersion lithography, Semiconductor manufacturing | Academician of Academia Sinica, SVP of R&D of TSMC |
| 3 | 9/25 | Industry3.5 symposium/ Chair Professor Chen-Fu Chien | | | |
| 4 | 10/2 | Academician/ Prof. Antony SF Chiu (周純峰教授) | Circular Economy meets Industry3.5 | Circular Economy, Sustainability, Industrial Ecology | De La Salle University |
| 5 | 10/9 | Prof. Ling-Fan Li (李翎帆教授) | Commercial interest rates and geography of international credit in the seventeenth century | Economics History, Money and Banking, Cliometrics | Department of Economics, NTHU |
| 6 | 10/16 | Prof. Po-Yu Chen | Next generation materials inspired from | Bio-inspired Materials | Department of Materials |

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| | | (陳柏宇教授) | Nature and optimized by AI | | Science and Engineering, NTHU |
| 7 | 10/23 | Prof. Marzieh Khakifirooz | Capula Clustering for Machine Subgroup Identification | Big Data Analysis, Smart Manufacturing, Optimization Algorithm, Reliability Statistics | Industrial Engineering, Tecnológico de Monterrey |
| 8 | 10/30 | Prof. Wong Chan-Yuan (王振源教授) | Mapping the structure of innovation: competency, industrial network and technology landscape | Research Evaluation, Evolutionary Economics, Science and Technology Policy and Management | Institute of Technology Management, NTHU |
| 9 | 11/6 | Prof. Tan Kui Thong (陳貴通教授) | TBD | Organic Chemistry, Analytical Chemistry, Chemical Biology | Department of Chemistry, NTHU |
| 10 | 11/13 | NTHU Sport Day (全校運動會) - DAY OFF | | | |
| 11 | 11/20 | Y.-W. Peter Hong (洪樂文教授) | TBD | Physical Layer Secrecy, Cooperative Communications, Distributed Signal Processing for Sensor Networks | Department of Electrical Engineering, NTHU |
| 12 | 11/27 | Yunching (Becky) Chen (陳韻晶教授) | Application of nanotechnology in cancer therapy | Drug deliveryCancer, BiologyPharmaceutics, Gene Therapy | Institute of Biomedical Engineering, NTHU |
| 13 | 12/4 | Prof. Yuan-Chi Tseng (曾元琦教授) | Design Behavior by Digital Platform: From Behavior Theory to Design | Human-Computer (/Robot/AI) Interaction, Design Science and Method, Psychology+Design, User | Institute of Service Science, NTHU |

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| | | | | Experience & Service Design, Intelligent Interactive and Service System | |
| 14 | 12/11 | Prof. Chien-Heng Wu (吳建亨教授) | The Posthuman and Its Vicissitudes | Comparative Literature, Literary Theory, Contemporary Continental Philosophy | Department of Foreign Languages and Literature, NTHU |
| 15 | 12/18 | Prof. De-Hao Tsai (蔡德豪教授) | Hybrid nano-catalysts for energy and environmental applications | Material haracterization, Nanomaterials, Nanomaterials Synthesis | Department of Chemical Engineering, NTHU |
| 16 | 12/25 | Merry Christmas/ Take-home report (due 2020/1/8) | | | |
| 17 | 1/1 | Happy New Year - DAY OFF | | | |
| 18 | 1/8 | Professor Ching-Ting Hsin (辛靜婷教授) | Approaches to Educational Equity for Young Indigenous Children in Taiwan: From Literacy to STEM Curricula | Early Childhood Education | Department of Early Childhood Education, NTHU |

Evaluation Criteria**Attendance 50%****Q&A and Report 50%****Extra performance extra 10%****Regulation**

1. Please sign the attendance sheet before the talk starts (14:20) and will not be allowed to come in late to avoid class disturbance.
2. Please apply for absence in advance should you cannot attend the seminars, yet maximum twice is allowed with good reasons, otherwise will deduct 5 points.
3. Please ask questions in at least 5 of 14 seminars and send a report to TA about your question, response of the speaker, and your comments.