

Tamkang University Academic Year 114, 1st Semester Course Syllabus

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| Course Title | INTRODUCTION TO ARTIFICIAL INTELLIGENCE | Instructor | LIM, XIANG YANN | | | |
| Course Class | TRBXB1A DEPARTMENT OF INTERNATIONAL TOURISM MANAGEMENT (ENGLISH-TAUGHT PROGRAM), 1A | Details | <ul style="list-style-type: none"> ♦ General Course ♦ Required ♦ One Semester ♦ 1 Credits | | | |
| Relevance to SDGs | SDG9 Industry, Innovation, and Infrastructure | | | | | |
| Departmental Aim of Education | | | | | | |
| <p>I. Develop students' basic literacy of information technology.</p> <p>II. Establish students' ability to apply information technology.</p> <p>III. Build students' information ethics.</p> <p>IV. Train students' reflections on information-related issues.</p> | | | | | | |
| Subject Schoolwide essential virtues | | | | | | |
| <ol style="list-style-type: none"> 1. A global perspective. (ratio:10.00) 2. Information literacy. (ratio:30.00) 3. A vision for the future. (ratio:10.00) 4. Moral integrity. (ratio:20.00) 5. Independent thinking. (ratio:10.00) 6. A cheerful attitude and healthy lifestyle. (ratio:5.00) 7. A spirit of teamwork and dedication. (ratio:10.00) 8. A sense of aesthetic appreciation. (ratio:5.00) | | | | | | |

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| Course Introduction | Introduction to the concept and applications of Artificial Intelligence, with examples of real world applications. |
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| <p>The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.</p> <p>Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.</p> <p>I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.</p> <p>II. Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.</p> <p>III. Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.</p> |
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| No. | Teaching Objectives | objective methods |
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| 1 | Allow students to gain basic knowledge on logics and a brief introduction to the programming scene. | Cognitive |

| <p>The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment</p> | | | | |
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| No. | Core Competences | Essential Virtues | Teaching Methods | Assessment |
| 1 | | 12345678 | Lecture | Report(including oral and written) |

| Course Schedule | | | |
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| Week | Date | Course Contents | Note |
| 1 | 114/09/15 ~ 114/09/21 | Introduction to AI | |
| 2 | 114/09/22 ~ 114/09/28 | Introduction to Machine Learning and Deep Learning | |
| 3 | 114/09/29 ~ 114/10/05 | Artificial Intelligence Semantic | |
| 4 | 114/10/06 ~ 114/10/12 | Genetic Algorithm | |
| 5 | 114/10/13 ~ 114/10/19 | AI in Commercial Applications | |
| 6 | 114/10/20 ~ 114/10/26 | Logic Programming | |

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| 7 | 114/10/27 ~ 114/11/02 | Post-AI | |
| 8 | 114/11/03 ~ 114/11/09 | AI in Various Fields | |
| 9 | 114/11/10 ~ 114/11/16 | Final Exam | |
| 10 | 114/11/17 ~ 114/11/23 | | |
| 11 | 114/11/24 ~ 114/11/30 | | |
| 12 | 114/12/01 ~ 114/12/07 | | |
| 13 | 114/12/08 ~ 114/12/14 | | |
| 14 | 114/12/15 ~ 114/12/21 | | |
| 15 | 114/12/22 ~ 114/12/28 | | |
| 16 | 114/12/29 ~ 115/01/04 | | |
| 17 | 115/01/05 ~ 115/01/11 | | |
| 18 | 115/01/12 ~ 115/01/18 | | |
| Key capabilities | Information Technology | | |
| Interdisciplinary | | | |
| Distinctive teaching | | | |
| Course Content | AI application | | |
| Requirement | Generative AI Ethical Statement - Students: Coursework involving personal opinions should refrain from using Generative AI, except for grammatical amendments or wording restructuring. Due to the nature of this course (Introduction to Artificial Intelligence), AI generated content will sometimes be used when teaching, with the usage of said content be explicitly mentioned where applicable. | | |
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| Textbooks and Teaching Materials | Self-made teaching materials:Presentations Using teaching materials from other writers:Videos |
| References | |
| Grading Policy | <ul style="list-style-type: none"> ◆ Attendance : 30.0 % ◆ Mark of Usual : 30.0 % ◆ Midterm Exam : % ◆ Final Exam : 40.0 % ◆ Other < > : % |
| Note | <p>This syllabus may be uploaded at the website of Course Syllabus Management System at https://web2.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php.</p> <p style="color: red;">※"Adhere to the concept of intellectual property rights" and "Do not illegally photocopy, download, or distribute." Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p> |