國立勤益科技大學

National Chin-Yi University of Technology

113 學年度 上 學期課程大綱

Year of 2024 Syllabus

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| 部別  Department | 日間部 Regular Day School | 學制  School System | | 碩士 Master’s Degree | |
| 授課教師  Instructor(s) | 曹世昌  Tsaur Shyh-Chang | | 開課代碼  Course Code | | G112 |
| 科目名稱  Course Name | 雲端計算與服務  Cloud Computing and Services | | 必/選修  Required/Elective | | □必修Required ■選修Elective |
| 開課年級  Grade | 1 | | 開課學期  Semester | | 上Fall |
| 開課單位  Course  Department | 電子工程系  Department of Electronic Engineering | | 學分/學時數  Credit/Hours | | 3/3 |
| 全程外語授課  Foreign language  Teaching entirely | ■是Yes □否No | | 主要授課語言  Main language | | 國語 |
| 先修課程  Prerequisite course(s) | None | | | | |
| 優質課程類別  Course attributes  (可複選) | ■一般課程General Courses、□智慧財產權Intellectual Property、  □內涵式服務學習課程Service Learning、□性別平等Gender Equality、  □綠色課程Green Technology□創新創意課程Innovation、□工作（職場）倫理課程Career Ethics、  □工具機技術研發Tool Machine Technology Development  創新、創意課程定義：課程目標為「激發學生獨特的想像與創意思考，透過企劃與執行以創新模式解決實際問題。  Definition of Innovation and Creative courses: the objectives of the course aim to stimulate students’ imagination and creative thinking skills, and to solve practical problems with innovative modes through planning and implementing different tasks. | | | | |
| 課程與校核心能力關聯  Core competence  (可複選，至多選4項) | ■表達溝通能力Communication and Presentation Skill ■創意創新能力Innovation Skill  □關懷服務能力Community Care and Service Skill □思考推理能力Thinking and Reasoning Skill  ■專業實務能力Professional Practice Skill □宏觀視野能力Macro Skill | | | | |
| 教科書Textbook | 自編講義  Handout by Instructor | | | | |
| 參考書目  Other References | A BRIEF GUIDE TO CLOUD COMPUTING  Publisher: Constable & Robinson  Author：Christopher Barnatt | | | | |
| 課程目標  Course objectives | Introduction to Cloud Computing | | | | |
| 評量方式  Evaluation | 出席Attendance ( ) 作業Assignments ( ) 平時考Quizzes/Tests (30%) 期中考Midterm Exam (30%) 期末考Final Exam (40%)  其他:(請敘述非筆試之評量方式) Other (please explain the evaluation methods if there are no written exams): | | | | |
| 內容綱要  Course Outline | Cloud computing is to process the application software, processing power, data or potential artificial intelligence by access through the Internet.  Many people often use online e-mail system; such as Gmail, Yahoo or Hotmail, as well as community network used to exchange messages between each other, imaging community networks to share photos and images such as Facebook. However, these types of cloud computing activities are just beginning. In fact, within a decade, most personal or enterprise computing will base on Internet. Gartner focused on technology analysis even said that cloud computing " Forecast the development of the business of its influence will be not less than e-commerce ".This course will enable students to understand what cloud computing is, how to get many applications of cloud computing applications and related resources， many of which are free and can be used directly. Computer practice and setup are used to configure and create a simple cloud computing collaboration platform. | | | | |
| 自編教材  Self-compiled textbook  (非自編教材  請填寫原因) | ■是Yes □否No,原因Reason(s): | | | | |
| 符合智財規範  Compliance with Intellectual property  (不符合智財規範請填寫原因) | ■是Yes □否No,原因Reason(s): | | | | |
| 備註Note |  | | | | |

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| 教學進度Course schedule | | |
| 週次  Week | 教學與作業進度  Teaching Schedule/Assignments | 備註Note |
| 1 | An Introduction to Cloud Computing |  |
| 2 | Cloud service providers |  |
| 3 | Google and Dropbox Drive |  |
| 4 | Google Cloud Office Apps |  |
| 5 | Cloud SAAS - Desktop Software (Office) |  |
| 6 | Cloud Multimedia Picasa & YouTube |  |
| 7 | Cloud image service |  |
| 8 | Mid-term Exam |  |
| 9 | Cloud Security |  |
| 10 | Cloud image service |  |
| 11 | Cloud Web hosting |  |
| 12 | Google App Engine |  |
| 13 | Cloud APP application |  |
| 14 | Introduction to Hadoop |  |
| 15 | Google Sites implementation |  |
| 16 | Google Sites implementation |  |
| 17 | Google Sites implementation |  |
| 18 | Final report: Google Sites |  |

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