

Tamkang University Academic Year 108, 2nd Semester Course Syllabus

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| Course Title | NETWORK AND COMMUNICATION | Instructor | WU, SHIH-JUNG |
| Course Class | TQIDB2A DIVISION OF APPLIED INFORMATICS, DEPARTMENT OF INNOVATIVE INFORMATION AND TECHNOLOGY (ENGLISH- TAUGHT PROGRAM), 2A | Details | ◆ General Course ◆ Required ◆ One Semester |
| Departmental Aim of Education | | | |
| Cultivate professional talents in developing and applying information system in various fields. | | | |
| Subject Departmental core competences | | | |
| C. Capability of applying knowledge of internet structure and protocol in communication system(ratio:100.00) | | | |
| Subject Schoolwide essential virtues | | | |
| 2. Information literacy. (ratio:70.00) 3. A vision for the future. (ratio:10.00) 5. Independent thinking. (ratio:20.00) | | | |
| Course Introduction | The goal of this course is to give students a superior foundation in network communications. Focus on OSI seven layers model. | | |
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The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.

II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.

III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

| No. | Teaching Objectives | objective methods |
|-----|---|-------------------|
| 1 | Understand the network technologies, principles of communication, and protocol. | Cognitive |

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

| No. | Core Competences | Essential Virtues | Teaching Methods | Assessment |
|-----|------------------|-------------------|--------------------|--|
| 1 | C | 235 | Lecture, Practicum | Testing, Discussion(including classroom and online), Practicum |

Course Schedule

| Week | Date | Course Contents | Note |
|------|-----------------------|---|------|
| 1 | 109/03/02 ~ 109/03/08 | Computer Networks and the Internet | |
| 2 | 109/03/09 ~ 109/03/15 | Computer Networks and the Internet | |
| 3 | 109/03/16 ~ 109/03/22 | Computer Networks and the Internet | |
| 4 | 109/03/23 ~ 109/03/29 | The Link Layer : Links · Access Networks · and LANs | |
| 5 | 109/03/30 ~ 109/04/05 | The Link Layer : Links · Access Networks · and LANs | |
| 6 | 109/04/06 ~ 109/04/12 | The Link Layer : Links · Access Networks · and LANs | |
| 7 | 109/04/13 ~ 109/04/19 | The Link Layer : Links · Access Networks · and LANs | |
| 8 | 109/04/20 ~ 109/04/26 | The Link Layer : Links · Access Networks · and LANs | |
| 9 | 109/04/27 ~ 109/05/03 | Midterm Exam Week | |
| 10 | 109/05/04 ~ 109/05/10 | The Network Layer | |
| 11 | 109/05/11 ~ 109/05/17 | The Network Layer | |

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|----------------------------------|--|--|--|
| 12 | 109/05/18 ~ 109/05/24 | The Network Layer | |
| 13 | 109/05/25 ~ 109/05/31 | The Network Layer | |
| 14 | 109/06/01 ~ 109/06/07 | Transport Layer | |
| 15 | 109/06/08 ~ 109/06/14 | Transport Layer | |
| 16 | 109/06/15 ~ 109/06/21 | Transport Layer | |
| 17 | 109/06/22 ~ 109/06/28 | Final Exam Week (Date:109/6/18-109/6/24) | |
| 18 | 109/06/29 ~ 109/07/05 | Supplementary teaching:If necessary. | |
| Requirement | Exercises in lesson! | | |
| Teaching Facility | Computer, Projector | | |
| Textbooks and Teaching Materials | Computer Networking: A Top-Down Approach: International Edition -- James Kurose, Keith Ross (ISBN13: 9780273768968, ISBN10: 0273768964) | | |
| References | Internet-related books | | |
| Number of Assignment(s) | 5 (Filled in by assignment instructor only) | | |
| Grading Policy | ◆ Attendance : 10.0 % ◆ Mark of Usual : 30.0 % ◆ Midterm Exam : 30.0 % ◆ Final Exam : 30.0 % ◆ Other < > : % | | |
| Note | This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.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 . ※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications. | | |