

## Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	WIRELESS NETWORK	Instructor	FENG-CHENG CHANG
Course Class	TEIDB4P DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 4P	Details	◆ General Course ◆ Selective ◆ One Semester
Relevance to SDGs	SDG4 Quality education		
D e p a r t m e n t a l   A i m   o f   E d u c a t i o n			
I . Comprehend professional knowledge.  II . Acquire mastery of Practical Skills.  III . Establish creative achievement.			
Subject Departmental core competences			
D. Computer networking application skills.(ratio:100.00)			
Subject Schoolwide essential virtues			
1. A global perspective. (ratio:10.00)  2. Information literacy. (ratio:20.00)  3. A vision for the future. (ratio:10.00)  4. Moral integrity. (ratio:10.00)  5. Independent thinking. (ratio:10.00)  6. A cheerful attitude and healthy lifestyle. (ratio:10.00)  7. A spirit of teamwork and dedication. (ratio:20.00)  8. A sense of aesthetic appreciation. (ratio:10.00)			

Course Introduction	Wireless communication is important for various kinds of applications. In addition to mobile devices, sensor modules may also be attached to an wireless carrier board. Without the restriction of wiring, devices may be deployed easily. However, there are wireless-specific issues. In this course, a few wireless technologies and networking methods are introduced. We will start the study by extending the Internet with wireless access. Then, we will introduce a few other infrastructures for wireless communication.			
<p align="center"><b>The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.</b></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>				
No.	Teaching Objectives			objective methods
1	Learn the concepts of wireless communications.			Cognitive
2	Learn the integration of wireless technology and the Internet.			Cognitive
3	Learn the fundamental setup of a wireless access.			Cognitive
The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment				
No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	D	12345678	Lecture	Testing, Study Assignments, Discussion(including classroom and online)
2	D	12345678	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online)
3	D	12345678	Lecture, Experience	Testing, Study Assignments, Discussion(including classroom and online)
Course Schedule				
Week	Date	Course Contents		Note

1	111/02/21 ~ 111/02/25	Introduction of wireless network	
2	111/02/28 ~ 111/03/04	Wireless LANs (1)	
3	111/03/07 ~ 111/03/11	Wireless LANs (2)	
4	111/03/14 ~ 111/03/18	Cellular Internet access	
5	111/03/21 ~ 111/03/25	Mobility management (1)	
6	111/03/28 ~ 111/04/01	Mobility management (2)	
7	111/04/04 ~ 111/04/08	Mobility and cellular networks	
8	111/04/11 ~ 111/04/15	Cellular systems	
9	111/04/18 ~ 111/04/22	Satellite networks	
10	111/04/25 ~ 111/04/29	Midterm Exam Week	
11	111/05/02 ~ 111/05/06	Ad Hoc routing	
12	111/05/09 ~ 111/05/13	Personal area networks	
13	111/05/16 ~ 111/05/20	Selected topics (1)	
14	111/05/23 ~ 111/05/27	Selected topics (2)	
15	111/05/30 ~ 111/06/03	Graduate Exam Week	
16	111/06/06 ~ 111/06/10	---	
17	111/06/13 ~ 111/06/17	---	
18	111/06/20 ~ 111/06/24	---	
Requirement			
Teaching Facility		Computer	
Textbooks and Teaching Materials		Computer Networking: A top-Down Approach by Kuros and Ross. Wireless Networks by Nicopolitidis et al.	
References			

Number of Assignment(s)	6 (Filled in by assignment instructor only)
Grading Policy	◆ Attendance :                %    ◆ Mark of Usual : 10.0 %    ◆ Midterm Exam : 30.0 % ◆ Final Exam :    30.0 % ◆ Other 〈Assignments〉 : 30.0 %
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> . <b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b>