## Tamkang University Academic Year 108, 1st Semester Course Syllabus

A NETWORKS	Instructor	KUEI-PING SHIH		
TEIBM1A  MASTER'S PROGRAM, DEPARTMENT OF  COMPUTER SCIENCE AND INFORMATION		<ul><li>General Course</li><li>Selective</li><li>One Semester</li></ul>		
<del>SH-TAUGHT PROGRAM),</del> Irtmental Aim of Educ	ation			
I . Cultivate the ability to conduct independent research and problem solving.				
arch capacity.				
nowledge in computer science and infor	mation engine	eering.		
g learning.				
Subject Departmental core competence	es			
ability in information engineering.(ratio	o:100.00)			
Subject Schoolwide essential virtues				
00)				
targeted at graduate-level students, at s working in the field, and also at engine vireless LANs. This course contains basic ack of wireless LANs, and challenges of adents can realize the state-of-the-art to er presentation and discussions.	eering develop concepts of w wireless LANs	vireless		

## 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	Realize the operations of WLANs.	Cognitive
2	Realize the challenges and possible solutions in operations of wireless LANs.	Cognitive
3	Cultivate the capabilities of independent thinking and investigation.	Cognitive
4	Increase English reading and writing capabilities.	Psychomotor
5	Increase the capabilities of oral presentation and defense.	Psychomotor

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	D	2	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written), Activity Participation
2	D	2	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written), Activity Participation
3	D	2	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written), Activity Participation
4	D	2	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written), Activity Participation

5	D	2	Lecture, Discussion, Practicum	Discussion(including classroom and online), Practicum, Report(including oral and written), Activity Participation	
	Г	1	Course Schedule		
Week	Date	Course Contents Note			
1	108/09/09 ~ 108/09/15	Introduction to WLANs			
2	108/09/16 ~ 108/09/22	Collision Resolution of IEEE 802.11 DCF			
3	108/09/23 ~ 108/09/29	Priority Scheme of IEEE 802.11 DCF			
4	108/09/30 ~ 108/10/06	Random Backoff Scheme of IEEE 802.11 DCF			
5	108/10/07 ~ 108/10/13	The Operation of IEEE 802.11 PCF			
6	108/10/14 ~ 108/10/20	The Coexistence of PCF and DCF			
7	108/10/21 ~ 108/10/27	IEEE 802.11 Other Issues: Fragmentation and Multirate Support			
8	108/10/28 ~ 108/11/03	Power Saving Schemes in IEEE 802.11 Infrastructure  Mode			
9	108/11/04 ~ 108/11/10	Power Saving Scheme in IEEE 802.11 Infrastructure-less Mode			
10	108/11/11 ~ 108/11/17	Midterm Evaluation			
11	108/11/18 ~ 108/11/24	Paper Presentations and Discussions			
12	108/11/25 ~ 108/12/01	Paper Presentations and Discussions			
13	108/12/02 ~ 108/12/08	Paper Presentations and Discussions			
14	108/12/09 ~ 108/12/15	Paper Presentations and Discussions			
15	108/12/16 ~ 108/12/22	Paper Presentations an	d Discussions		
16	108/12/23 ~ 108/12/29	Paper Presentations and Discussions			
17	108/12/30 ~ 109/01/05	Paper Presentations an	d Discussions		
18	109/01/06 ~ 109/01/12	Concluding Remarks			
Requirement					

Teaching Facility	Computer, Projector, Other ((Blackboard)		
Textbooks and Teaching Materials	Teaching materials are made by the lecturer and will be put on the learning platform.		
References	Std 802.11-2012: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications. Institute of Electrical and Electronics Engineers, Inc., 2012. All related IEEE Standards, drafts, forums, and contributions. All related Journal and Conference papers.		
Number of Assignment(s)	(Filled in by assignment instructor only)		
Grading Policy	<ul> <li>◆ Attendance: 10.0 % ◆ Mark of Usual: 30.0 % ◆ Midterm Exam: %</li> <li>◆ Final Exam: %</li> <li>◆ Other ⟨Presentation, Report⟩: 60.0 %</li> </ul>		
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> .  ** Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		

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