

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

Course Title	RESEARCH METHODOLOGY	Instructor	CHEN, CHIEN-CHANG
Course Class	TEIBM1A MASTER'S PROGRAM, DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM), 1A	Details	◆ General Course ◆ Required ◆ 1st Semester
Departmental Aim of Education			
I . Cultivate the ability to conduct independent research and problem solving. II. Strengthen creativity and research capacity. III. Build profound professional knowledge in computer science and information engineering. IV. Engage in self-directed lifelong learning.			
Subject Departmental core competences			
B. Independent innovative thinking ability.(ratio:30.00) D. Research & development (R&D) ability in information engineering.(ratio:70.00)			
Course Introduction	This course introduces the basics of research methodology, including search and study of research papers. Various research talks given by invited speakers are also arranged to present to the students recent research trends.		
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 basic concepts of research	Cognitive
2	Get familiar with paper search	Cognitive
3	Learn the techniques of English paper study	Cognitive
4	Understand various research topics and trends	Cognitive

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

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

#### Course Schedule

Week	Date	Course Contents	Note
1	108/09/09 ~ 108/09/15	Introduction	
2	108/09/16 ~ 108/09/22	Research talk	
3	108/09/23 ~ 108/09/29	Research talk	
4	108/09/30 ~ 108/10/06	Research talk	
5	108/10/07 ~ 108/10/13	Research talk	
6	108/10/14 ~ 108/10/20	Research talk	
7	108/10/21 ~ 108/10/27	Research talk	
8	108/10/28 ~ 108/11/03	Research talk	
9	108/11/04 ~ 108/11/10	Reserach talk	
10	108/11/11 ~ 108/11/17	Research talk	
11	108/11/18 ~ 108/11/24	Reserach talk	

12	108/11/25 ~ 108/12/01	Reserach talk	
13	108/12/02 ~ 108/12/08	Reserach talk	
14	108/12/09 ~ 108/12/15	Reserach talk	
15	108/12/16 ~ 108/12/22	Student short presentations	
16	108/12/23 ~ 108/12/29	Student short presentations	
17	108/12/30 ~ 109/01/05	Student short presentations	
18	109/01/06 ~ 109/01/12	Student short presentations	
Requirement			
Teaching Facility		Computer	
Textbooks and Teaching Materials		papers from IEEEExplorer and Elsevier Digital Library	
References			
Number of Assignment(s)		(Filled in by assignment instructor only)	
Grading Policy		◆ Attendance : 20.0 %   ◆ Mark of Usual : 50.0 %   ◆ Midterm Exam : % ◆ Final Exam : % ◆ Other 〈Oral Presentation〉 : 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>	