

Tamkang University Academic Year 109, 1st Semester Course Syllabus

Course Title	RESEARCH METHODOLOGY	Instructor	LIN, CHI-YI
Course Class	TEIBM1A MASTER'S PROGRAM, DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH- TAUGHT PROGRAM), 1A	Details	<ul style="list-style-type: none"> ◆ 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)			
Subject Schoolwide essential virtues			
2. Information literacy. (ratio:70.00) 5. Independent thinking. (ratio:30.00)			
Course Introduction	This course introduces the basics of research methodology, including the search and study of research papers. Various research talks given by invited speakers are also arranged for students to learn 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 doing 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	25	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written)
2	BD	25	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written)
3	BD	25	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written)
4	BD	25	Lecture, Discussion	Discussion(including classroom and online), Report(including oral and written)

Course Schedule

Week	Date	Course Contents	Note
1	109/09/14 ~ 109/09/20	Course Introduction	
2	109/09/21 ~ 109/09/27	Electronic library and paper search	
3	109/09/28 ~ 109/10/04	Mid Autumn Festival	No class

4	109/10/05 ~ 109/10/11	Electronic library and paper search	
5	109/10/12 ~ 109/10/18	Paper study and discussion	
6	109/10/19 ~ 109/10/25	Paper study and discussion	
7	109/10/26 ~ 109/11/01	Paper study and discussion	
8	109/11/02 ~ 109/11/08	Paper study and discussion	
9	109/11/09 ~ 109/11/15	Paper study and discussion	
10	109/11/16 ~ 109/11/22	Introduction to research topics	
11	109/11/23 ~ 109/11/29	Paper study and discussion	
12	109/11/30 ~ 109/12/06	Paper study and discussion	
13	109/12/07 ~ 109/12/13	Paper study and discussion	
14	109/12/14 ~ 109/12/20	Paper study and discussion	
15	109/12/21 ~ 109/12/27	Student presentations	
16	109/12/28 ~ 110/01/03	Student presentations	
17	110/01/04 ~ 110/01/10	Student presentations	
18	110/01/11 ~ 110/01/17	Student presentations	
Requirement			
Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	Research papers from IEEE Xplore or ACM 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	<p>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.</p> <p>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>
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