

Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	RESEARCH METHODOLOGY	Instructor	WANG, SHENG-WEI
Course Class	TEIBM1A MASTER'S PROGRAM, DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM),	Details	◆ General Course ◆ Required ◆ 2nd Semester
Relevance to SDGs	1A 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 . 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	In this semester, we will focus on technical writing and technical presentations. LaTeX software will be introduced. Students shall also share their own researches in this course.		

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	Learn how to do a good research	Cognitive
2	Learn how to write papers	Cognitive
3	Learn how to make a presentation	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, Practicum	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)

Course Schedule

Week	Date	Course Contents	Note
1	111/02/21 ~ 111/02/25	Introduction to this course	
2	111/02/28 ~ 111/03/04	Introduction to LaTeX software	
3	111/03/07 ~ 111/03/11	Research Presentation 1	
4	111/03/14 ~ 111/03/18	Research Presentation 1	
5	111/03/21 ~ 111/03/25	Research Presentation 1	
6	111/03/28 ~ 111/04/01	Introduction to Technical writing	

7	111/04/04 ~ 111/04/08	Mathematics and Equations	
8	111/04/11 ~ 111/04/15	Figures and Tables	
9	111/04/18 ~ 111/04/22	Documents	
10	111/04/25 ~ 111/04/29	References	
11	111/05/02 ~ 111/05/06	Introduction to Beamer	
12	111/05/09 ~ 111/05/13	Using packages	
13	111/05/16 ~ 111/05/20	Structure of a Presentation	
14	111/05/23 ~ 111/05/27	Columns	
15	111/05/30 ~ 111/06/03	Graphs	
16	111/06/06 ~ 111/06/10	Research Presentation 2	
17	111/06/13 ~ 111/06/17	Research Presentation 2	
18	111/06/20 ~ 111/06/24	Research Presentation 2	
Requirement		Students shall bring their laptop to the class	
Teaching Facility		Computer	
Textbooks and Teaching Materials			
References			
Number of Assignment(s)		(Filled in by assignment instructor only)	
Grading Policy		◆ Attendance : 20.0 % ◆ Mark of Usual : 40.0 % ◆ Midterm Exam : % ◆ Final Exam : % ◆ Other 〈Research Notes〉 : 40.0 %	
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.	