Tamkang University Academic Year 109, 2nd Semester Course Syllabus

Course Title	RESEARCH METHODOLOGY	Instructor	CHUANG-CHIEH LIN	
Course Class	TEIBM1A Ourse Class MASTER'S PROGRAM, DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM),		◆ General Course ◆ Required ◆ 2nd Semester	
Relevance to SDGs	1A SDG4 Quality education elevance			
	Departmental Aim of Educ	ation		
I . Cultiva	te the ability to conduct independent research and problem so	ving.		
П. Streng	then creativity and research capacity.			
Ш. Build р	profound professional knowledge in computer science and infor	mation engine	eering.	
IV. Engag	e in self-directed lifelong learning.			
Subject Departmental core competences				
B. Indeper	dent 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. Indeper	ndent thinking. (ratio:30.00)			
Course	This course focuses on developing researching and writing s Science. Here we investigate, in general, the principles and a conducting a research project.	pproaches of		
Introduction	We expect the students to acquire various aspects of reading papers, and presenting research.	g, writing, eval	uaung	

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	Types of Research	Cognitive		
2	Literature Survey	Psychomotor		
3	Research Design	Psychomotor		
4	Collaboration	Cognitive		
5	Writing Strategies	Psychomotor		
6	Data Collection and Visualization	Psychomotor		
7	Review Processes	Psychomotor		
8	Report and Proposal	Psychomotor		
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 $The \ correspondences \ of \ teaching \ objectives: core \ competences, \ essential \ virtues, \ teaching \ methods, \ and \ assessment$

	Core Competences	Essential Virtues	Teaching Methods	Assessment
No. 1	BD	25	Lecture, Discussion	Discussion(including classroom and online), Attendance
2	BD	25	Lecture, Discussion, Practicum	Study Assignments, Discussion(including classroom and online)
3	BD	25	Lecture, Discussion, Practicum	Study Assignments, Discussion(including classroom and online)
4	BD	25	Lecture, Discussion	Discussion(including classroom and online)
5	BD	25	Lecture, Discussion, Practicum	Study Assignments, Discussion(including classroom and online)
6	BD	25	Lecture, Discussion, Practicum	Study Assignments, Discussion(including classroom and online), Report(including oral and written)

Week 1 2	BD Date		25	Discussion, Practicum	
1 2	Date			J. Scassion, Tracticum	Discussion(including classroom and online), Report(including oral and written)
1 2	Date			Course Schedule	
2		ate Course Contents			Note
2	110/02/22 ~ 110/02/28	Course Introduction			
3	110/03/01 ~ 110/03/07	Types of Research			
	110/03/08 ~ 110/03/14	Types of Research			
4	110/03/15 ~ 110/03/21	Literature Survey			
5 I	110/03/22 ~ 110/03/28	Literature Survey			
6 I	110/03/29 ~ 110/04/04	Research Design			
7	110/04/05 ~ 110/04/11	Research Design			
8	110/04/12 ~ 110/04/18	Research Design			
9 1	110/04/19 ~ 110/04/25	Collaboration			
10	110/04/26 ~ 110/05/02	Writing Strategies			
11	110/05/03 ~ 110/05/09	Writing Strategies			
12	110/05/10 ~ 110/05/16	Data Collection and Visualization			
13 l	110/05/17 ~ 110/05/23	Data Collection and Visualization			
14	110/05/24 ~ 110/05/30	Data Collection and Visualization			
15 I	110/05/31 ~ 110/06/06	Review Processes			
16 I	110/06/07 ~ 110/06/13	Review Processes			
17 I	110/06/14 ~ 110/06/20	Report and Proposal			
18 I	110/06/21 ~ 110/06/27	Report and Proposal			
Req	quirement				

Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	Research Design - Qualitative, Quantitative, and Mixed Methods Approaches. 5th Edition. John W. Creswell and J. David Creswell. SAGE Publications, Inc. 2017.		
References	Research Methodology - A Step-By-Step Guide For Beginners. 3rd Edition. Ranjit Kumar. SAGE. 2019.		
Number of Assignment(s)	5 (Filled in by assignment instructor only)		
Grading Policy	 ◆ Attendance: 20.0 % ◆ Mark of Usual: 40.0 % ◆ Midterm Exam: % ◆ Final Exam: % ◆ Other 〈Final Report〉: 40.0 % 		
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 compression to improperly photocopy others' publications.			

TEIBM1T0081 2A Page:4/4 2021/5/27 21:47:11