Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Title	CLOUD SECURITY PRACTICES AND STRATEGIES	Instructor	SHENGZHI HUANG				
Course Class	TEIBM1A MASTER'S PROGRAM, DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION ENGINEERING (ENGLISH-TAUGHT PROGRAM),	Details	 General Course Selective One Semester 2 Credits 				
Relevance to SDGs	1A SDG9 Industry, Innovation, and Infrastructure						
Departmental Aim of Education							
I. Cultiva	te the ability to conduct independent research and problem sol	ving.					
II. Strengt	then creativity and research capacity.						
III. Build p	rofound professional knowledge in computer science and inform	mation engine	eering.				
IV. Engage	e in self-directed lifelong learning.						
	Subject Departmental core competence	es					
A. Indepen	dent problem solving ability.(ratio:20.00)						
B. Indepen	dent innovative thinking ability.(ratio:20.00)						
C. Research	C. Research paper writing and presentation ability.(ratio:20.00)						
D. Research	າ & development (R&D) ability in information engineering.(ratic):20.00)					
E. Project e	execution and control ability.(ratio:10.00)						
F. Lifelong	F. Lifelong self-directed learning ability.(ratio:10.00)						
Subject Schoolwide essential virtues							
1. A globa	perspective. (ratio:10.00)						
2. Informa	2. Information literacy. (ratio:20.00)						
3. A vision for the future. (ratio:10.00)							
4. Moral integrity. (ratio:20.00)							
5. Indeper	5. Independent thinking. (ratio:10.00)						
6. A cheerful attitude and healthy lifestyle. (ratio:10.00)							
7. A spirit of teamwork and dedication. (ratio:15.00)							
8. A sense	8. A sense of aesthetic appreciation. (ratio:5.00)						

In	Course troduction	This co cyberse hands- and rea	ourse is designed to help ecurity principles and se on approach. This cours al-life scenarios.	students gain a foundational knowledge rvices for cloud computing through a gu e includes demonstrations, instructional	e of ided guides,	
 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 Ob	jectives	objective methods	
1	Upon completion of this course, students will be able to do the following: - Identify security benefits and responsibilities of using the Amazon Web Services (AWS) Cloud. - Use the identity and access management features of AWS. - Describe how to secure network access to AWS resources. - Explain the available methods for encrypting data at rest and data in transit. - Determine which AWS services can be used for monitoring and incident response.Cognitive					
	The	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	ethods, and assessment	
No.	Core Compe	etences	Essential Virtues	Teaching Methods	Assessment	
1	ABCDEF		12345678	Lecture, Practicum	Testing, Study Assignments, Report(including oral and written)	
Course Schedule						
Wee	k Date		Cour	se Contents	Note	

1	114/02/17~ 114/02/23	Lecture Introduce		
2	114/02/24 ~ 114/03/02	Module 1: Welcome		
3	114/03/03~ 114/03/09	Module 2: Introduction to Security on AWS		
4	114/03/10~ 114/03/16	Module 3: Securing Access to Cloud Resources		
5	114/03/17 ~ 114/03/23	Module 3: Securing Access to Cloud Resources		
6	114/03/24 ~ 114/03/30	Module 4: Securing Your Infrastructure		
7	114/03/31~ 114/04/06	Teaching and Administrative Observation Day		
8	114/04/07 ~ 114/04/13	Module 4: Securing Your Infrastructure		
9	114/04/14 ~ 114/04/20	Midterm report		
10	114/04/21~ 114/04/27	Module 5: Protecting Data in Your Application		
11	114/04/28~ 114/05/04	~ Module 5: Protecting Data in Your Application		
12	114/05/05~ 114/05/11	.14/05/05 ~ I14/05/11 Module 6: Logging and Monitoring		
13	3 ^{114/05/12~} ^{114/05/18} Module 6: Logging and Monitoring			
14	114/05/19~ 114/05/25	Module 7: Responding to and Managing an Incident		
15	114/05/26~ 114/06/01	Module 7: Responding to and Managing an Incident		
16	114/06/02 ~ 114/06/08	Final report		
17	114/06/09~ 114/06/15	Final report		
18	114/06/16~ 114/06/22	Final report		
Key capabilities		self-directed learning		
Interdisciplinary		STEAM course (S:Science, T:Technology, E:Engineering, M:Math, A field:Integration of Art and Humanist)		
Distinctive teaching		Project implementation course		

Course Content	Computer programming or Computer language (students have hands-on experience in related projects) Logical Thinking					
Requirement						
Textbooks and Teaching Materials	Using teaching materials from other writers:Handouts Name of teaching materials: AWS Academy Cloud Security Foundations					
References						
Grading Policy	 Attendance: 20.0 % ◆ Mark of Usual: % ◆ Midterm Exam: % Final Exam: % Other ⟨mid / final report⟩: 80.0 % 					
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. 					
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