Tamkang University Academic Year 112, 1st Semester Course Syllabus

Course Title	INFORMATION VISUALIZATION	Instructor	CHIA-LING CHANG
Course Class	TABXB2P DEPARTMENT OF INFORMATION AND LIBRARY SCIENCE, 2P	Details	 Blended Course Selective One Semester 2 Credits
Relevance to SDGs	SDG4 Quality education SDG8 Decent work and economic growth SDG10 Reducing inequalities		
	Departmental Aim of Educ	ation	
Our mission	is to educate and train library and information professionals.		
	Subject Departmental core competenc	es	
	erstand concepts relating to library and information science and trends.(ratio:5.00)	to grasp the	
	ire professional abilities to develop, organize, preserve and intertion resources.(ratio:15.00)	grate all sorts	of
	erstand concepts relating to information technology and system n in use.(ratio:20.00)	s, and be able	to
D. To acqu (ratio:20	ire communication and coordination skills required for the info 0.00)	rmation servic	es.
	ire management skills required by different types of libraries and ations.(ratio:10.00)	d information	
F. To acqu	ire professional skills to manage electronic documents and arch	ives.(ratio:20.0	00)
G. To acqu	ire integration ability of library services and traditional publishir	ng.(ratio:5.00)	
H. To acqu	ire integration ability of library services and digital publishing.(ra	atio:5.00)	
	Subject Schoolwide essential virtues		
1. A globa	Il perspective. (ratio:5.00)		
2. Informa	ation literacy. (ratio:20.00)		
3. A vision	n for the future. (ratio:5.00)		
4. Moral ir	ntegrity. (ratio:5.00)		
5. Indeper	ndent thinking. (ratio:20.00)		
6. A cheer	ful attitude and healthy lifestyle. (ratio:5.00)		

7. A	spirit	of teamwor	k and	dedication.	(ratio:20.00)
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8. A sense of aesthetic appreciation. (ratio:20.00)

	0. A sense of de	sthetic appreciation. (ratio:.	20.00)	
Ir	Course Fo ntroduction To ex fin	d presentation. Topics incluncepts, data characteristics, cusing on graphic narratior ols like Excel, PowerBI, and perience. Upon completion	n utilizing visualization tools for effective of ide image communication, fundamental w , analysis methods, and statistical techniq n, students interpret key insights from dat word cloud are extensively used, providin , students proficiently communicate data ation as a powerful tool for data explorati	visualization ues. a swiftly. Ig hands-on -driven
do I. II.	fferentiate the varie mains of the cours Cognitive : Empha the cour Affective : Emphasi morals, s	ar ous objective methods amo e's instructional objectives. sis upon the study of variou se's veracity, conception, p s upon the study of various attitude, conviction, values, ohasis upon the study of the	us kinds of knowledge in the cognition of rocedures, outcomes, etc. kinds of knowledge in the course's appea	tor
No.		Teaching O	bjectives	objective methods
1	Students will und big data thinking	erstand and be able to con	struct	Cognitive
2	2 Students will be able to employ big data visualization.			Psychomotor
3	3 Students will interpret and understand information visualization. Cognitive			Cognitive
	The corres	pondences of teaching objective	s : core competences, essential virtues, teaching m	ethods, and assessment
No.	Core Competence	s Essential Virtues	Teaching Methods	Assessment
1	ABC	123	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written), Activity Participation

2	DEFGH		4567	Lecture, Discussion	Testing, Study Assignments, Discussion(including classroom and online), Report(including oral and written)
3	BCDE		12345678	Lecture, Discussion	Study Assignments, Discussion(including classroom and online), Report(including oral and written)
	Not	e for Blend	led Course : When utilizing	Course Schedule weekly digital instruction, please fill in "Online A	Asynchronous Instruction".
Week	Date		Со	urse Contents	Note
1	112/09/11~ 112/09/17	Introduction			
2	112/09/18 ~ 112/09/24	Informa	ation Visualization and	Image Communication 1	
3	112/09/25 ~ 112/10/01	Image	Communication 2		
4	112/10/02~ 112/10/08	Visualiz exampl	zation in narrative stati les	stics applications and	Online Asynchronous Instruction
5	112/10/09~ 112/10/15				Online Asynchronous Instruction
6	112/10/16~ 112/10/22	Big Data analysis- interpreting and understanding data			
7	112/10/23 ~ 112/10/29	Midter	m Group report 1		
8	112/10/30~ 112/11/05	Midterm Group report 2			
9	112/11/06~ 112/11/12	Midterm Group report 3			
10	112/11/13~ 112/11/19	Telling Stories with Data Visualization			
11	112/11/20~ 112/11/26	Data processing with Excel and PowerBI 1 Online Asynchronous Instruction			-
12	112/11/27 ~ 112/12/03	Quantitative chart with Excel and PowerBI Online Asynchronous Instruction			
13	112/12/04~ 112/12/10	Understand the meaning of the data through a variety of different visualization charts with PowerBI			
14	112/12/11 ~ 112/12/17	Final Report Discussion			
15	112/12/18 ~ 112/12/24	Group	report 1		
16	112/12/25 ~ 112/12/31	Group	report 2		
17	113/01/01~ 113/01/07	Group	report 3		

inary issues STEEP (S Learning techn g	arning chnology tion g ased education 'compet ociety, Technology, Ecor	ency exploration' sustained compet nomy, Environment, and Politics)	
lities Information Te Social Participa Problem solvin inary Competency-b issues STEEP (S Learning techn yee g Computer prog	chnology tion g ased education 'compet ociety, Technology, Ecor	nomy, Environment, and Politics)	
inary issues STEEP (S Learning technology g Computer prog	ociety, Technology, Ecor	nomy, Environment, and Politics)	
ve g Computer prog	blogies (such as AR/VR,&	etc.) incorporated to physical course	S
ntent		anguage (students have hands-on e	experience in
Excel, and Powe 2. The lectures refrain from end 3. Each class in evaluation. Com are unable to ad any questions, f 4. Mid-term re attendance rate course. 5. During the 1 do not raise any grades for the 6 6. After the 18	rBI). will be conducted soled olling in this course. cludes classroom activit poletion of these activit cept this requirement, eel free to discuss ther port (30%), the final gro (10%). If you cannot a 8 week, the teacher will a concerns with the teacher ntire semester. week, no grade change	y in Chinese. If you find this unacce ties, which contribute to 30% of th ies is mandatory, even in the case please do not take this course. (He n with the teacher.) pup report (30%), classroom activit ccept this evaluation format, pleas request confirmation of the seme cher, it will be considered as accep	eptable, please e overall semester of absences. If you owever, if you have ies (30%), and e do not take this ester's grades. If you ting the default
Using teaching	•		
es			
◆ Final Exam	: 30.0 %		lidterm Exam: 30.0 %
	entExcel, and Powe2. The lectures of refrain from enr 3. Each class ind evaluation. Com are unable to act any questions, fr 4. Mid-term rep attendance rate course.5. During the 18 do not raise any grades for the e 6. After the 18 of policy, please dorialsSelf-made teac Using teaching rialscesImage: Attendance ometa constructiongAttendance Final Exam	hentExcel, and PowerBI).2. The lectures will be conducted solel refrain from enrolling in this course. 3. Each class includes classroom activit evaluation. Completion of these activit are unable to accept this requirement, any questions, feel free to discuss them 4. Mid-term report (30%), the final group attendance rate (10%). If you cannot accourse. 5. During the 18 week, the teacher will do not raise any concerns with the teach grades for the entire semester. 6. After the 18 week, no grade change policy, please do not take this course.aSelf-made teaching materials:Handou Using teaching materials from other vrialsImage: Attendance in 10.0 % MgFinal Exam in 30.0 %	2. The lectures will be conducted solely in Chinese. If you find this unaccorrefrain from enrolling in this course. 3. Each class includes classroom activities, which contribute to 30% of the evaluation. Completion of these activities is mandatory, even in the case are unable to accept this requirement, please do not take this course. (He any questions, feel free to discuss them with the teacher.) 4. Mid-term report (30%), the final group report (30%), classroom activitia attendance rate (10%). If you cannot accept this evaluation format, please course. 5. During the 18 week, the teacher will request confirmation of the seme do not raise any concerns with the teacher, it will be considered as accept grades for the entire semester. 6. After the 18 week, no grade changes will be accepted. If you cannot compolicy, please do not take this course. Self-made teaching materials:Handouts, Videos Using teaching materials from other writers:Videos rials • Attendance : 10.0 % • Mark of Usual : % • M

	 This syllabus may be uploaded at the website of the Course Syllabus Management System at <u>https://info.ais.tku.edu.tw/csp</u> or through the link of the Course Syllabus Upload posted on the home page of the TKU Office of Academic Affairs <u>http://www.acad.tku.edu.tw/CS/main.php</u>
	 According to the Implementation regulations of distance education for junior college and above are prescribed pursuant to Article 2, "The distance learning course referred to in these Measures refers to more than one-half of the teaching hours in each subject."
Note	3. According to the regulations of Tamkang University Enforcement Rules for digital teaching, Paragraph 2 and Article 3, the distance learning course of our school must be "The course of digital teaching with distance learning platform or synchronous video system in our school. Teaching Hours include course lectures, teacher-student interaction discussions, quizzes and other learning activities."
	4. If there are any temporary course changes (including time changes and classroom changes of distance learning courses, blended courses), please make out an application according to regulations to the Office of Academic Affairs.
	Wunauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.

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