Tamkang University Academic Year 110, 2nd Semester Course Syllabus

Course Title	BASIC TRAINING OF DIGITAL CONTENT PRODUCTION	Instructor	YI-LUNG LIN			
Course Class	TDTXB2A DEPARTMENT OF EDUCATIONAL TECHNOLOGY, 2A	Details	 General Course Selective One Semester 			
Relevance to SDGs						
Departmental Aim of Education						
The department of educational technology aims to equip students with skills in integrating relevant pedagogical theories into e-Learning, instructional materials development, and project management.						
	Subject Departmental core competence	es				
C. Students	s will be able to develop multiple types of digital materials.(ratio	:60.00)				
 D. Students will be able to acquire the ability related to basic computer programming. (ratio:30.00) 						
F. Students	s will be able to evaluate each type of digital materials.(ratio:10.0	00)				
Subject Schoolwide essential virtues						
2. Informa	tion literacy. (ratio:50.00)					
5. Indeper	ident thinking. (ratio:50.00)					
Course IntroductionPromote the implementation of Maker education and practical interactive learning device: the course content is combined with Maker digital tools (laser cutting machine, 3D printer or Arduino board and sensors) for interactive learning device planning, design and production. The course implements digital learning devices by Display technology. Through exhibitions, learners can present and promote their works.Refer to shorturl.at/bqvLU						

	The	correspor		course's instructional objectives and nd psychomotor objectives.	the cognitive, affective,	
			bjective methods amo	ong the cognitive, affective and psycho	omotor	
			structional objectives.			
I. (-		-	us kinds of knowledge in the cognition rocedures, outcomes, etc.	nof	
II.A	ffective : Emp	phasis upo	on the study of various	kinds of knowledge in the course's a	opeal,	
III.F			de, conviction, values, s upon the study of the	etc. e course's physical activity and technic	cal	
	mai	nipulation				
			Teaching O	biectives	objective methods	
No.						
		-	ools for Makers, and test	Psychomotor		
			ach learner's operating			
	To explain th sensor and p		Psychomotor			
	-	ching uses the ability to solve complex problems, critical thinking Cognitive				
	skills, creativity, communication skills and teamwork skills. Group					
			cted to discuss the des arning device.	sign of the visually		
	-	value and belief in BASIC TRAINING OF DIGITAL Affective				
	CONTENT P	RODUCTIC	DN		Allective	
	The	corresponde	ences of teaching objective	s : core competences, essential virtues, teachir	ng methods, and assessment	
No.	Core Compe	tences	Essential Virtues	Teaching Methods	Assessment	
1	CDF		25	Discussion, Publication, Experience	Testing	
2	CDF		25	Publication, Practicum	Testing, Discussion(including classroom and online)	
3	CDF		25	Publication, Experience	Testing	
4	CDF		25	Publication, Practicum	Discussion(including classroom and online), Report(including oral and written)	
				Course Schedule		
Week	Date	Course Contents			Note	
1	111/02/21~ 111/02/25	Maker education and digital tools introduction				
	111/02/28~	^{2/28 ~} Digital interactive device and display technology(exhibition site visit)				

3	111/03/07 ~ 111/03/11	Laser cutting machine operation and design of digital interactive device I			
4	111/03/14 ~ 111/03/18	Laser cutting machine operation and design of digital interactive device 2			
5	111/03/21~ 111/03/25	3D printer machine operation and design of digital interactive device I			
6	111/03/28 ~ 111/04/01	3D printer machine operation and design of digital interactive device II			
7	111/04/04 ~ 111/04/08	No Class			
8	111/04/11~ 111/04/15	Discussion of digital interactive device design and planning			
9	111/04/18~ 111/04/22	Curation I of Digital Interactive Device			
10	111/04/25~ 111/04/29	Midterm Exam Week			
11	111/05/02 ~ 111/05/06	 Know the development version and the sensor 2. Development version and sensor in education application 3. Basic concepts of electronics 			
12	111/05/09~ 111/05/13	1. Button interactive project 2. RFID sensor project			
13	111/05/16~ 111/05/20	1. Infrared sensor project 2 Ultrasonic Sensor Project			
14	111/05/23~ 111/05/27	1. Servo motor project 2. Buzzer/Voice Player Project			
15	111/05/30~ 111/06/03	Discussion of sensor-based digital interactive device design and planning			
16	111/06/06 ~ 111/06/10	Curation II of Digital Interactive Device			
17	111/06/13 ~ 111/06/17	1. Feedback improvement 2. Patent amendment			
18	111/06/20~ 111/06/24	Final Exam Week			

	1. Absenteeism is subject to the teacher's call, and failure to call will be regarded as an				
Requirement	 absence. 2. Students applying for leave must go through the procedures for applying for leave in accordance with the rules for applying for leave. After applying for leave, they must apply for leave with the official school leave slip within two weeks. Failure to comply with the regulations will be regarded as absenteeism. 3. A total of 5 points will be deducted for the first time of absenteeism. In addition, the test will be deducted for more than three times before the mid-term exam, and five times before the final exam. The semester score of the subject will be calculated as zero. 4. The teacher reserves the right to change the assignment items, assignment content, and assignment grading ratio. 5. Observe the basic etiquette in the classroom 6. Please do not submit late work and final report 7. Do not plagiarize the content of the work. Please respect the intellectual property rights of the pictures and texts. 8. Interactive discussion, do not abuse and personal attacks. 				
Teaching Facility	Computer, Projector				
Textbooks and Teaching Materials	Refer to https://drive.google.com/drive/folders/1BzQHMEoF5-AutjDlsLWK9czpNVFLV00K? usp=sharing				
References	Refer to https://drive.google.com/drive/folders/1BzQHMEoF5-AutjDlsLWK9czpNVFLV00K? usp=sharing				
Number of Assignment(s)	6 (Filled in by assignment instructor only)				
Grading Policy	 Attendance: 30.0 % ◆ Mark of Usual: 30.0 % ◆ Midterm Exam: % Final Exam: 20.0 % Other ⟨Curation I ⟩: 20.0 % 				
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at <u>http://info.ais.tku.edu.tw/csp</u> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <u>http://www.acad.tku.edu.tw/CS/main.php</u> . ※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime				
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