## Tamkang University Academic Year 109, 2nd Semester Course Syllabus

Course Title	BASIC TRAINING OF DIGITAL CONTENT PRODUCTION	Instructor	YI-LUNG LIN			
Course Class DEPARTMENT OF EDUCATIONAL TECHNOLOGY, 2B		Details	<ul> <li>General Course</li> <li>Selective</li> <li>One Semester</li> </ul>			
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 (ratio:30	s will be able to acquire the ability related to basic computer pro	ogramming.				
	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 Introduction	Promote the implementation of maker education and practic device: the course content is combined with maker digital to machine, CNC engraving machine, 3D printer and 3D scanne learning device planning, design and production Out.	ols (laser cutti	ng			

	The correspo		course's instructional objectives and the	e cognitive, affective,
	fferentiate the various c mains of the course's ir	objective methods amo	id psychomotor objectives. Ing the cognitive, affective and psychomo	otor
II.	the course's Affective : Emphasis up morals, attitu	veracity, conception, p on the study of various ude, conviction, values, is upon the study of the	us kinds of knowledge in the cognition of rocedures, outcomes, etc. kinds of knowledge in the course's appe etc. e course's physical activity and technical	
No.		Teaching Ol	bjectives	objective methods
1				Psychomotor
2		mming of the developr arners with repeated p		Psychomotor
3	skills, creativity, comm	nunication skills and tea icted to discuss the des	·	Cognitive
4	Enhance the value and CONTENT PRODUCTION	d belief in BASIC TRAIN ON	ING OF DIGITAL	Affective
	The correspond	lences of teaching objective	s : core competences, essential virtues, teaching m	ethods, and assessment
No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	CDF	25	Discussion, Publication, Practicum, Experience	Testing, Study Assignments, Discussion(including classroom and online)
2	CDF	25	Lecture, Discussion, Publication, Practicum, Experience	Testing, Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written)
3	CDF	25	Lecture, Discussion, Publication, Practicum, Experience	Testing, Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written)
4	CDF	25	Discussion, Publication, Practicum	Discussion(including classroom and online), Report(including oral and written)

Course Schedule				
Week	Date	Course Contents	Note	
1	110/02/22~ 110/02/28	1 Learn about maker education and tool introduction 2 Discuss the importance of friendly and equal rights design		
2	110/03/01~ 110/03/07	<ol> <li>Instructions for using 2D images on the laser cutting machine 2. Operation guide for mine cutting machine 3.</li> <li>The principle of visually impaired interaction: tactile mechanism</li> </ol>		
З	110/03/08~ 110/03/14	<ol> <li>Instructions for using 3D model on CNC engraving machine 2. CNC engraving machine operation guide 3.</li> <li>The principle of visually impaired interaction: auditory mechanism</li> </ol>		
4	110/03/15~ 110/03/21	1.3D printer and 3D scanner 3D model use skills description 2.3D scanner operation guide 3.3D Printer Operation Guide		
5	110/03/22~ 110/03/28	<ul> <li>1.2D image is used for mine cutting machine operation</li> <li>certification 2.3D model used for CNC engraving</li> <li>machine operation certification 3.3D model is used for</li> <li>3D printer and 3D scanner operation certification</li> </ul>		
6	110/03/29~ 110/04/04	<ol> <li>Know the development version and the sensor 2.</li> <li>Development version and sensor in education application 3. Basic concepts of electronics</li> </ol>		
7	110/04/05~ 110/04/11	1. Button interactive project 2. RFID sensor project		
8	110/04/12~ 110/04/18	1. Infrared sensor project 2 Ultrasonic Sensor Project		
9	110/04/19~ 110/04/25	1. Servo motor project 2. Buzzer/Voice Player Project		
10	110/04/26 ~ 110/05/02	Midterm Exam Week		
11	110/05/03 ~ 110/05/09	1. Visit the Danhai Affair Museum 2. Observation can be made into the hull category of the visually impaired interactive learning system 3. Discuss the location and space placement of the curatorial planning		
12	110/05/10~ 110/05/16	1. Know educational toys 2. Explore the impact of educational toys on learning 3. Fun and interactive design planning of the hull model		

13	110/05/17 ~ 110/05/23	1. Mechanism Principles of Interactive Design 2.         Implementation of educational toy design skills 3.         Design of interactive learning device for the visually         impaired	
14	110/05/24 ~ 110/05/30	1. Development of an interactive learning device for the visually impaired 2. Patent concept guidance	
15	110/05/31~ 110/06/06	1. Development of an interactive learning device for the visually impaired 2. Patent concept guidance	
16	110/06/07 ~ 110/06/13	1. Publish the curatorial field test 2. Feedback from visually impaired users	
17	110/06/14~ 110/06/20	1. Feedback improvement 2. Patent amendment	
18	110/06/21~ 110/06/27	Final Exam Week	
Re	quirement	<ol> <li>Absenteeism is subject to the teacher's call, and failure to call will be regarded as an absence.</li> <li>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.</li> <li>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.</li> <li>The teacher reserves the right to change the assignment items, assignment content, and assignment grading ratio.</li> <li>Observe the basic etiquette in the classroom</li> <li>Please do not submit late work and final report</li> <li>Do not plagiarize the content of the work. Please respect the intellectual property rights of the pictures and texts.</li> <li>Interactive discussion, pay attention to the use of words and words, do not abuse and personal attacks.</li> </ol>	
Tea	ching Facility	Computer, Projector	
	oks and ng Materials	Refer to https://drive.google.com/drive/folders/1TEyxJJnjKqOhbY_yg7MVaK2WfheOs6zm? usp=sharing	
References		Refer to https://drive.google.com/drive/folders/1TEyxJJnjKqOhbY_yg7MVaK2WfheOs6zm? usp=sharing	
Number of Assignment(s) 8		8 (Filled in by assignment instructor only)	
<ul> <li>♦ Attendance: 10.0 %</li> <li>♦ Final Exam: 25.0 %</li> <li>♦ Other 〈 〉: %</li> </ul>		◆ Final Exam: 25.0 %	

	This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the
Note	home page of TKU Office of Academic Affairs at <u>http://www.acad.tku.edu.tw/CS/main.php</u> .
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