## Tamkang University Academic Year 113, 2nd Semester Course Syllabus

Course Title	ARCHITECTURAL DESIGN (IV)	Instructor	HSIAO, CHI-FU			
Course Class	Course Class TEAXB4I DEPARTMENT OF ARCHITECTURE, 4I DEPARTMENT OF ARCHITECTURE, 4I DEPARTMENT OF ARCHITECTURE, 4I		<ul> <li>General Course</li> <li>Required</li> <li>2nd Semester</li> <li>4 Credits</li> </ul>			
Relevance to SDGs	SDG4 Quality education Relevance SDG11 Sustainable cities and communities to SDGs					
	Departmental Aim of Educ	ation				
I. Discerr accum	n and understand current society and trends of development (Ki ulation).	nowledge				
II. Trainin	g of professionalism (Knowledge implementation).					
1. Learni	ng of professional skills and practice.					
2. Cultiva profes	ation of a character attending to social justice and public interes ssionalism.	t for architect	ural			
3. Inspiri	ng creative thinking in environment and architecture design dis	cipline.				
III. Implen growth	nentation of inter-disciplinary knowledge and team works (self- n).	educating and	ł			
Subject Departmental core competences						
A. Abilities in architectural design, creativities, aesthetics, and cumulating of knowledge for						
B. Compete	ence of logical reasoning and judgment for issue discovering, in	formation				
gatherin physical	gathering, analysis and problem solutions, and integration conceptual thinking into physical forms.(ratio:30.00)					
C. Understa	C. Understanding and application of fundamental mathematics and science skills.(ratio:5.00)					
D. Understa	anding of knowledge from socio-cultural, humanity and psycho	logy discipline	es for			
applicati	ions in architectural thinking and problem resolutions.(ratio:5.00	))				
E. Compet (ratio:10	<ul> <li>E. Competence in implementation of architectonics, construction, and architectural practices.</li> <li>(ratio:10.00)</li> </ul>					
F. Understa architect	F. Understanding the functioning of ecological and urban environment and applying in architectural and urban design process.(ratio:5.00)					
G. Applicat ability.(r	G. Application of information technology for creative works and enhancing communication ability.(ratio:5.00)					

<ul> <li>H. Prepared for planning management          <ul> <li>effective communication and team-work,</li> <li>understanding of professional ethics and social responsibilities, highly pertinent to current</li> <li>affairs and global perspective.(ratio:10.00)</li> </ul> </li> </ul>						
	Subject Schoolwide essential virtues					
1. A	lobal perspective. (ratio:10.00)					
2. In	ormation literacy. (ratio:20.00)					
3. A	ision for the future. (ratio:20.00)					
4. M	ral integrity. (ratio:5.00)					
5. In	ependent thinking. (ratio:30.00)					
6. A	heerful attitude and healthy lifestyle. (ratio:5.00)					
7. A	pirit of teamwork and dedication. (ratio:5.00)					
8. A	ense of aesthetic appreciation. (ratio:5.00)					
Cours Introduc	This course is divided into two parts: (1) interactive digital modeling me real-time information capture into building information model. This cou integrates information technology and ubiquitous computing into arch design process.	thods, (2) ırse itectural				
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 applyi	g information technology into architectural design	Cognitive				
2 the product of the design	ctices of applying information technology into architectural	Psychomotor				

	The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment						
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment		
1	1 ABCDEFGH		12345678	Lecture, Discussion, Publication, Practicum, Experience, Imitation	Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written), Activity Participation		
2	2 ABCDEFGH		12345678	Discussion, Publication, Practicum, Experience, Imitation	Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written)		
				Course Schedule			
Week	Date			urse Contents	Note		
1	114/02/17 ~ 114/02/23	introdı	uction				
2	114/02/24 ~ 114/03/02	concer	pt and anaylsis I				
3	114/03/03~ 114/03/09	concer	pt and anaylsis II				
4	114/03/10~ 114/03/16	anaylsi	is programming I				
5	114/03/17 ~ 114/03/23	anaylsi	is programming II				
6	114/03/24 ~ 114/03/30	anaylsi	anaylsis programming III				
7	114/03/31~ 114/04/06	param	parameter and figures I				
8	114/04/07 ~ 114/04/13	param	parameter and figures II				
9	114/04/14 ~ 114/04/20	Midter can ad	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)				
10	114/04/21~ 114/04/27	concer	concept modeling I				
11	114/04/28~ 114/05/04	concer	concept modeling II				
12	114/05/05~ 114/05/11	site and	site and environment optimize				
13	114/05/12~ 114/05/18	site and	site and environment optimize				
14	114/05/19~ 114/05/25	drawin	drawing, detail and physical modeling I				
15	114/05/26~ 114/06/01	drawing, detail and physical modeling II					

16	114/06/02 ~ 114/06/08	final review				
17	114/06/09~ 114/06/15	Final Exam/Final Assessment Week (teachers can adjust the week as needed)				
18	114/06/16~ 114/06/22	Flexible Teaching Week: Generally, no in-person classes; teachers may arrange teaching activities or final assessments, among other options.				
Key capabilities		Information Technology Problem solving				
Interdisciplinary		Competency-based education 'competency exploration' sustained competency or global issues STEEP (Society, Technology, Economy, Environment, and Politics) In addition to teaching content of the teacher's professional field, integrate other subjects or invite experts and scholars in other fields to share knowledge or teaching				
Distinctive teaching		Game-based learning courses Project implementation course Special/Problem-Based(PBL) Courses Learning technologies (such as AR/VR,etc.) incorporated to physical courses				
Cοι	irse Content	Computer programming or Computer language (students have hands-on experience in related projects) Logical Thinking Sustainability issue				
Re	quirement					
Textbooks and Teaching Materials		Self-made teaching materials:Presentations Name of teaching materials: custom powerpoint slider				
References		The Experience of 2020 Will Initiate Long-Awaited Growth In Enterprise Augmented, Mixed, And Virtual Reality, 2020, Forester report. Benedikt Gross, Hartmut Bohnacker, Julia Laub and Claudius Lazzeroni. Generative Design. 2018, Princeton Architectural Press.				
(	Grading Policy	<ul> <li>♦ Attendance: 10.0 %</li> <li>♦ Mark of Usual: 10.0 %</li> <li>♦ Midterm Exam: 30.0 %</li> <li>♦ Other &lt; &gt;: %</li> </ul>				
	Note	<ul> <li>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 home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a>.</li> <li><b>Winauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b></li> </ul>				
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