Tamkang University Academic Year 108, 1st Semester Course Syllabus

Course Title	THE WAY SCIENCE WORKS	Instructor	LEE, MING-HSIEN
Course Class	TNUUB0A NATURAL SCIENCES, 0A	Details	◆ General Course ◆ Required ◆ One Semester
	Academic Aim of Educat	ion	
impact of sc	g natural laws and studying scientific methods, to let students un ience and technology on human life, and to cultivate in them th tly, and to discover, analyse and solve problems. Also, throu.		nk
	Subject Schoolwide essential virtues		
3. A vision	tion literacy. (ratio:50.00) for the future. (ratio:30.00) of aesthetic appreciation. (ratio:20.00)		
Course Introduction	Using easy-to-understand stories and pictures, this course exscience principles and mechanism behind the everyday used products. This course is most relevant to "How Thing Works"	technologies	and
Differentiate the domains of the I. Cognitive : E the II.Affective : Em mo III.Psychomoto	correspondences between the course's instructional objective and psychomotor objectives. e various objective methods among the cognitive, affective and course's instructional objectives. Imphasis upon the study of various kinds of knowledge in the coest course's veracity, conception, procedures, outcomes, etc. phasis upon the study of various kinds of knowledge in the couprals, attitude, conviction, values, etc. The Emphasis upon the study of the course's physical activity and anipulation.	psychomotor gnition of rse's appeal,	-
lo.	Teaching Objectives		objective methods

1	Understand	basic prin	Cognitive				
	The	correspond	lences of teaching objectives	: core competences, essential virtues, teachir	ng methods, and assessment		
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment		
1			238	Lecture	Testing, Discussion(including classroom and online)		
•				Course Schedule			
Week	Date	Date Course Contents Note					
1	108/09/09 ~ 108/09/15	Course Introduction					
2	108/09/16 ~ 108/09/22	How sicence works for urban and environmental technologies (1)					
3	108/09/23 ~ 108/09/29		How sicence works for urban and environmental technologies (2)				
4	108/09/30 ~ 108/10/06	How sicence works for urban and environmental technologies (3)					
5	108/10/07 ~ 108/10/13	How sceince works for domestic living technoloiges (1)					
6	108/10/14 ~ 108/10/20	How sceince works for domestic living technoloiges (2)					
7	108/10/21 ~ 108/10/27	How sceince works for audio / visual technoloiges (1)					
8	108/10/28 ~ 108/11/03	How sceince works for audio / visual technoloiges (2)					
9	108/11/04 ~ 108/11/10	How sceince works for computer and microchip technologies (1)					
10	108/11/11 ~ 108/11/17	Midterm Exam Week					
11	108/11/18 ~ 108/11/24	Mid-te	Mid-term exam answer announcement and re-mark				
12	108/11/25 ~ 108/12/01	How sceince works for computer and microchip technologies (2)					
13	108/12/02 ~ 108/12/08	How sceince works for communication technologies (1)					
14	108/12/09 ~ 108/12/15	How sceince works for communication technologies (2)					
15	108/12/16 ~ 108/12/22	How sceince works for consumer electronic technologies (1)					
16	108/12/23 ~ 108/12/29	How sceince works for consumer electronic technologies (2)					

17	108/12/30 ~ 109/01/05	How sceince works for office automation technologies		
18	109/01/06 ~ 109/01/12	Final Exam Week (Date:109/1/3-109/1/9)		
Requirement		No food and drink during the class.		
Tea	Teaching Facility Computer, Projector			
Textbooks and Teaching Materials		書名:The Way Science Works, 出版社:Macmillan, USA:ISBN 0-02-860822-4 書名:(Scientific American) How Things Work Today, 出版社:Universal International Pty. Ltd., ISBN: 1-876670-15-0		
R	References			
Number of Assignment(s)		(Filled in by assignment instructor only)		
	Grading Policy	 ↑ Attendance: %		
	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 . wttp://www.acad.tku.edu.tw/CS/main.php . http://www.acad.tku.edu.tw/CS/main.php . wttp://www.acad.tku.edu.tw/CS/main.php . http://www.acad.tku.edu.tw/CS/main.php . wttp://www.acad.tku.edu.tw/CS/main.php . wttp://www.acad.tku.edu.tw/CS/main.php . wttp://www.acad.tku.edu.tw/CS/main.php . wttp://www.acad.tku.edu.tw/CS/main.php . It is a crime to improperly photocopy others' publications.		

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