Tamkang University Academic Year 112, 1st Semester Course Syllabus

Course Title	EXPLORING THE UNIVERSE	Instructor	TSAO, CHING-TANG			
Course Class	TNUUB0A NATURAL SCIENCES, 0A Details • Gene • Requ • One S					
Relevance to SDGs	SDG4 Quality education					
	Departmental Aim of Educ	ation				
impact of sc	natural laws and studying scientific methods, to let students ur 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					
1. A globa	perspective. (ratio:10.00)					
2. Informa	tion literacy. (ratio:30.00)					
3. A vision	for the future. (ratio:10.00)					
4. Moral ir	itegrity. (ratio:5.00)					
5. Indeper	ndent thinking. (ratio:30.00)					
6. A cheer	ful attitude and healthy lifestyle. (ratio:5.00)					
7. A spirit	of teamwork and dedication. (ratio:5.00)					
8. A sense	of aesthetic appreciation. (ratio:5.00)					
Course Introduction	This course provides a basic introduction to the structure of the with the solar system, including our Earth and other planets and death of a star, with our Sun as an example, will come nee explore the evolution of the Milky Way and other galaxies, are the large-scale structure of our universe. Finally, we shall also theory which describes how the universe began.	and satellites. The shall	The life en onstitute			

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.			objective methods					
	1 Exploring t 2 Understand 3 Evolution of 4 Large-scale	ding life of the gal	Cognitive					
	5 Big Bang theory							
	The c	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment			
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment			
1			12345678	Lecture, Discussion	Testing			
				Course Schedule				
Week	Date		Coul	rse Contents	Note			
1	112/09/11 ~ 112/09/17	Course introduction						
2	112/09/18 ~ 112/09/24	Night sky and legends (I)						
3	112/09/25 ~ 112/10/01	Night sky and legends (II)						
4	112/10/02 ~ 112/10/08	Terrest	Terrestrial planets (I)					
5	112/10/09 ~ 112/10/15	Terrest	Terrestrial planets (II)					
6	112/10/16 ~ 112/10/22	Jovian planets (I)						
7	112/10/23 ~ 112/10/29	Jovian planets (II)						
8	112/10/30 ~ 112/11/05	Small bodies in the Solar system (I)						
9	112/11/06 ~ 112/11/12	Midterm Exam Week						
10	112/11/13 ~ 112/11/19	Small bodies in the Solar system (II)						
11	112/11/20 ~ 112/11/26	The Sun						

12	112/11/27 ~ 112/12/03	Life and death of a star		
13	112/12/04 ~ 112/12/10	The Milky Way		
14	112/12/11 ~ 112/12/17	Galaxies		
15	112/12/18 ~ 112/12/24	Large-scale structure of the Universe		
16	112/12/25 ~ 112/12/31	The Big Bang		
17	113/01/01 ~ 113/01/07	Final Exam Week		
18	113/01/08 ~ 113/01/14	Flex week, learning activities should be arranged.		
Key	capabilities			
Inte	erdisciplinary			
	Distinctive teaching			
Cou	urse Content	Logical Thinking		
Re	quirement			
Textbooks and Teaching Materials		Self-made teaching materials:Handouts		
R	1. "Cosmos" by Carl Sagan 2. "Cosmology" by Edward Harrison 3. "Foundation Astronomy" by Michael Seeds			
(Grading Policy	 ◆ Attendance: % ◆ Mark of Usual: % ◆ Midterm Exam: % ◆ Final Exam: % ◆ Other ⟨Tests⟩: 100.0 % 		

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 .
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