Tamkang University Academic Year 112, 2nd Semester Course Syllabus

EXPLORING THE UNIVERSE TNUUBOA NATURAL SCIENCES, OA SDG4 Quality education Departmental Aim of Educ natural laws and studying scientific methods, to let students urence and technology on human life, and to cultivate in them the ly, and to discover, analyse and solve problems. Also, throu.	nderstand the	TSAO, CHING-TANG • General Course • Required • One Semester
NATURAL SCIENCES, 0A SDG4 Quality education Depart mental Aim of Educ natural laws and studying scientific methods, to let students ur ence and technology on human life, and to cultivate in them th	ation	◆ Required ◆ One Semester
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natural laws and studying scientific methods, to let students ur ence and technology on human life, and to cultivate in them th	nderstand the	nk
ence and technology on human life, and to cultivate in them th		nk
Subject Schoolwide essential virtues		
perspective. (ratio:10.00)		
ion literacy. (ratio:30.00)		
for the future. (ratio:10.00)		
tegrity. (ratio:5.00)		
dent thinking. (ratio:30.00)		
ul attitude and healthy lifestyle. (ratio:5.00)		
f teamwork and dedication. (ratio:5.00)		
of aesthetic appreciation. (ratio:5.00)		
with the solar system, including our Earth and other planets a and death of a star, with our Sun as an example, will come ne explore the evolution of the Milky Way and other galaxies, and	and satellites. The shall	The life en onstitute
	perspective. (ratio:10.00) for the future. (ratio:10.00) for the future. (ratio:10.00) fegrity. (ratio:5.00) dent thinking. (ratio:30.00) all attitude and healthy lifestyle. (ratio:5.00) f teamwork and dedication. (ratio:5.00) of aesthetic appreciation. (ratio:5.00) 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 neel explore the evolution of the Milky Way and other galaxies, and the large-scale structure of our universe. Finally, we shall also	perspective. (ratio:10.00) ion literacy. (ratio:30.00) for the future. (ratio:10.00) dent thinking. (ratio:30.00) dent thinking. (ratio:30.00) dent thinking. (ratio:30.00) fl teamwork and dedication. (ratio:5.00) of aesthetic appreciation. (ratio:5.00) This course provides a basic introduction to the structure of the universe. V with the solar system, including our Earth and other planets and satellites. and death of a star, with our Sun as an example, will come next. We shall the explore the evolution of the Milky Way and other galaxies, and how they could the large-scale structure of our universe. Finally, we shall also look at the Bi

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	1 Exploring t 2 Understan		Cognitive				
	3 Evolution of the galaxies						
	4 Large-scale structure of the universe						
5 Big Bang theory							
	The o	correspond	lences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment		
No.	Core Compet	ences	Essential Virtues	Teaching Methods	Assessment		
1	L		12345678	Lecture, Discussion	Testing		
		1		Course Schedule			
Week	Date		Coui	rse Contents	Note		
1	113/02/19 ~ 113/02/25	Course	introduction				
2	113/02/26 ~ 113/03/03	Night sky and legends (I)					
3	113/03/04 ~ 113/03/10	Night sky and legends (II)					
4	113/03/11 ~ 113/03/17	Terrestrial planets (I)					
5	113/03/18 ~ 113/03/24	Terrest	Terrestrial planets (II)				
6	113/03/25 ~ 113/03/31	Jovian planets (I)					
7	113/04/01 ~ 113/04/07	Jovian	planets (II)				
8	113/04/08 ~ 113/04/14	Small b	oodies in the Solar system				
9	113/04/15 ~ 113/04/21	Midterm Exam Week					
10	113/04/22 ~ 113/04/28	Small bodies in the Solar system (II)					
11	113/04/29 ~ 113/05/05	The Sun					

12	113/05/06 ~ 113/05/12	Life and death of a star			
13	113/05/13 ~ 113/05/19	The Milky Way			
14	113/05/20 ~ 113/05/26	Galaxies			
15	113/05/27 ~ 113/06/02	Large-scale structure of the Universe			
16	113/06/03 ~ 113/06/09	The Big Bang			
17	113/06/10 ~ 113/06/16	Final Exam Week (Date:113/6/11-113/6/17)			
18	113/06/17 ~ 113/06/23	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	References	"Cosmos" by Carl Sagan 2. "Cosmology" by Edward Harrison 3. "Foundation of Astronomy" by Michael Seeds			
(Grading Policy	 Attendance: %			
	Policy	◆ 0ther ⟨ ⟩ : %			

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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