Tamkang University Academic Year 109, 1st Semester Course Syllabus

Course Title	EXPLORING THE UNIVERSE	Instructor	TSAO, CHING-TANG		
Course Class	TNUUBOA NATURAL SCIENCES, OA	Details	◆ General Course ◆ Required ◆ One Semester		
	Departmental Aim of Educ	ation			
impact of so	g natural laws and studying scientific methods, to let students ur ience and technology on human life, and to cultivate in them th itly, and to discover, analyse and solve problems. Also, throu.		nk		
	Subject Schoolwide essential virtues				
5. Indeper	ndent thinking. (ratio:100.00)				
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 neexplore 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. ext. We shall the and how they co	The life en onstitute		
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 coe 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 the course is physical activity.	psychomotor gnition of rse's appeal,			
ma	Teaching Objectives		objective methods		
No.	5 - 1, Conjective illetilous				

1	1 Exploring t	he solar	Cognitive						
	2 Understand	ding life	and death of a star						
	3 Evolution of the galaxies								
	•	rge-scale structure of the universe							
	5 Big Bang theory								
	The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment								
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment				
1			5	Testing					
	Course Schedule								
Week	Date	ate Course Contents		rse Contents	Note				
1	109/09/14 ~ 109/09/20	Course introduction							
2	109/09/21 ~ 109/09/27	Night sky and legends (I)							
3	109/09/28 ~ 109/10/04	Night sky and legends (II)							
4	109/10/05 ~ 109/10/11	Terrestrial planets (I)							
5	109/10/12 ~ 109/10/18	Terrestrial planets (II)							
6	109/10/19 ~ 109/10/25	Jovian planets (I)							
7	109/10/26 ~ 109/11/01	Jovian planets (II)							
8	109/11/02 ~ 109/11/08	Small bodies in the Solar system (I)							
9	109/11/09 ~ 109/11/15	Small bodies in the Solar system (II)							
10	109/11/16 ~ 109/11/22	Midterm Exam Week							
11	109/11/23 ~ 109/11/29	The Sun							
12	109/11/30 ~ 109/12/06	Life and	Life and death of a star						
13	109/12/07 ~ 109/12/13	The Mi	lky Way						
14	109/12/14 ~ 109/12/20	Galaxies							
15	109/12/21 ~ 109/12/27	Large-scale structure of the Universe							
16	109/12/28 ~ 110/01/03	The Big Bang							
17	110/01/04 ~ 110/01/10	Epilogue							
18	110/01/11 ~ 110/01/17	Final Exam Week							

Requirement					
Teaching Facility	Computer, Projector				
Textbooks and Teaching Materials					
References	"Cosmos" by Carl Sagan 2. "Cosmology" by Edward Harrison 3. "Foundation of Astronomy" by Michael Seeds				
Number of Assignment(s)	(Filled in by assignment instructor only)				
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 . ** Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.				

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