## Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	EXPLORING THE UNIVERSE	Instructor	TSAO, CHING-TANG				
Course Class	TNUUBOD NATURAL SCIENCES, OD	Details	◆ General Course     ◆ Required     ◆ One Semester				
Relevance to SDGs							
	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	l perspective. (ratio:10.00)						
2. Informa	tion literacy. (ratio:30.00)						
3. A vision	for the future. (ratio:10.00)						
4. Moral ir	ntegrity. (ratio:5.00)						
5. Independent 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	1 Exploring t 2 Understand 3 Evolution of 4 Large-scald 5 Big Bang th	ding life of the gal	Cognitive						
	The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment								
No.	Core Compet	ences	Essential Virtues	Teaching Methods	Assessment				
1			12345678	Lecture, Discussion	Testing				
		1		Course Schedule					
Weel	Date	Date Course Content		rse Contents	Note				
1	111/09/05 ~ 111/09/11	Course introduction							
2	111/09/12 ~ 111/09/18	Night sky and legends (I)							
3	111/09/19 ~ 111/09/25	Night s	Night sky and legends (II)						
4	111/09/26 ~ 111/10/02	Terrest	Terrestrial planets (I)						
5	111/10/03 ~ 111/10/09	Terrest	Terrestrial planets (II)						
6	111/10/10 ~ 111/10/16	Jovian	Jovian planets (I)						
7	111/10/17 ~ 111/10/23	Jovian	Jovian planets (II)						
8	111/10/24 ~ 111/10/30	Small bodies in the Solar system (I)							
9	111/10/31 ~ 111/11/06	Small b	Small bodies in the Solar system (II)						
10	111/11/07 ~ 111/11/13	Midterm Exam Week							
11	111/11/14 ~ 111/11/20	The Sun							

12	111/11/21 ~ 111/11/27	Life and death of a star		
13	111/11/28 ~ 111/12/04	The Milky Way		
14	111/12/05 ~ 111/12/11	Galaxies		
15	111/12/12 ~ 111/12/18	Large-scale structure of the Universe		
16	111/12/19 ~ 111/12/25	The Big Bang		
17	111/12/26 ~ 112/01/01	Epilogue		
18	112/01/02 ~ 112/01/08	Final Exam Week		
Re	quirement			
Teaching Facility		Computer, Projector		
Textbooks and Teaching Materials		Lecture notes		
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		<ul> <li>Attendance: % ◆ Mark of Usual: % ◆ Midterm Exam: %</li> <li>◆ Final Exam: %</li> <li>◆ Other ⟨Tests⟩: 100.0 %</li> </ul>		
Note		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> .   ** Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		

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