Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	A VOYAGE TO SCIENCE	Instructor	WU, JUNYI
Course Class	TNUUB0B NATURAL SCIENCES, 0B	Details	◆ General Course ◆ Required ◆ One Semester
Relevance to SDGs	SDG4 Quality education		

Departmental Aim of Education

By exploring natural laws and studying scientific methods, to let students understand the impact of science and technology on human life, and to cultivate in them the ability to think independently, and to discover, analyse and solve problems. Also, throu.

Subject Schoolwide essential virtues

1. A global perspective. (ratio:20.00)
2. Information literacy. (ratio:5.00)
3. A vision for the future. (ratio:25.00)
4. Moral integrity. (ratio:5.00)
5. Independent thinking. (ratio:25.00)
6. A cheerful attitude and healthy lifestyle. (ratio:5.00)
7. A spirit of teamwork and dedication. (ratio:10.00)
8. A sense of aesthetic appreciation. (ratio:5.00)

Course Introduction	Science is not just about nature. It is a dialog between human beings and nature. Motivated by curiosity, scientists have been asking their questions to nature in their way, i.e. experiments, and interpreting the answer of nature with their theory. In this course, one will see how our scientific view of nature has been built up through the whole history of human beings. Such a historical review of the scientific principle will then help us to understand the current development of science and technology, and foresee their future.

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.	Teaching Objectives	objective methods
1	Understand the scientific principle	Cognitive
2	Understand the current science and technology	Affective

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1		12345678	Lecture, Discussion	Report(including oral and written)
2		12345678	Lecture, Discussion	Report(including oral and written)

Course Schedule

Week	Date	Course Contents	Note
1	111/09/05 ~ 111/09/11	1. What exactly is the FINAL CAUSE of this course?	This syllabus is subject to changes.
2	111/09/12 ~ 111/09/18	2. See, that is what I SAW	
3	111/09/19 ~ 111/09/25	3. Twinkle, twinkle, little star, how I wonder WHEN we are?	
4	111/09/26 ~ 111/10/02	4. Twinkle, twinkle, little star, how I wonder WHERE we are?	
5	111/10/03 ~ 111/10/09	5. May the FORCE be with you!	
6	111/10/10 ~ 111/10/16	Public holiday	
7	111/10/17 ~ 111/10/23	6. Enlightenment on light: Colors	
8	111/10/24 ~ 111/10/30	7. A revolutionary bath in THERMODYNAMICS.	
9	111/10/31 ~ 111/11/06	8. And God said "E+M"	
10	111/11/07 ~ 111/11/13	Midterm Exam Week	

11	111/11/14 ~ 111/11/20	9. A war for POWER: the current war	
12	111/11/21 ~ 111/11/27	10. Sport time: the LIVE golf on the moon.	
13	111/11/28 ~ 111/12/04	10-1. Space missions: pave the way to the Moon and Mars (Invited speaker)	
14	111/12/05 ~ 111/12/11	11. A new grammar: QUATNUM	
15	111/12/12 ~ 111/12/18	12. The imitation game	
16	111/12/19 ~ 111/12/25	13. "Ketchup or Mayo?" "SEMICONDUCTORs on chips, please!"	
17	111/12/26 ~ 112/01/01	14. Computing in the quantum world.	
18	112/01/02 ~ 112/01/08	Final Exam Week	

Requirement	Curiosity
Teaching Facility	Computer, Other (Whiteboard/Blackboard)
Textbooks and Teaching Materials	The slides of the lecture will be shared online.
References	
Number of Assignment(s)	(Filled in by assignment instructor only)
Grading Policy	◆ Attendance： 15.0 % ◆ Mark of Usual：25.0 % ◆ Midterm Exam： % ◆ Final Exam： 30.0 % ◆ Other〈Written report〉：30.0 %
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.**