## Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	A VOYAGE TO SCIENCE	Instructor	WU, JUNYI					
Course Class	TNUUB0B NATURAL SCIENCES, 0B	Details	<ul> <li>General Course</li> <li>Required</li> <li>One Semester</li> </ul>					
Relevance to SDGs								
	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:50.00) 5. Independent thinking. (ratio:50.00)								
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 interpret 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.							

	erentiate the	various o	ar	course's instructional objectives and t ad psychomotor objectives. ang the cognitive, affective and psychor		
I. ( II.A	Cognitive : En the ffective : Emp moi Psychomotor:	nphasis u course's nhasis up rals, attitu	pon the study of variou veracity, conception, p on the study of various ude, conviction, values, is upon the study of the	us kinds of knowledge in the cognition rocedures, outcomes, etc. kinds of knowledge in the course's app etc. e course's physical activity and technica	beal,	
No.		objective methods				
1	Understand the scientific principle				Cognitive	
2	Understand the current science and technology				Affective	
	The	correspond	lences of teaching objective	s : core competences, essential virtues, teaching	methods, and assessment	
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment	
1			15	Lecture, Discussion	Report(including oral and written)	
2			15	Lecture, Discussion	Report(including oral and written)	
	1			Course Schedule		
Week	Date	Course Contents Note			Note	
1	110/09/22 ~ 110/09/28	Aristotle: "What exactly is the FINAL CAUSE of this course?" This syllabus is subject to changes.				
2	110/09/29 ~ 110/10/05	Euclid, Alhazen and Brunelleschi: "See, that is what I SAW."				
3	110/10/06~ 110/10/12	<sup>06~</sup> Twinkle, twinkle, little star, how I wonder WHEN we are?				
4	110/10/13 ~ 110/10/19	<sup>/13~</sup> Twinkle, twinkle, little star, how I wonder WHERE we				
5	110/10/20~     Image: Constraint of the second					
6	110/10/27 ~ 110/11/02	<sup>10/10/27~</sup> Newton and Huygens: "Let us shed some light on the				
7	110/11/03 ~ 110/11/09	Industry: "It is time to take a revolutionary bath in				
8	110/11/10~ 110/11/16	Let's put the "E" and "M" together Coulomb, Ampere,				

9	110/11/17~	Midterm Exam Week						
J	110/11/23 110/11/24~							
10	110/11/24~ 110/11/30	The current war for "POWER": Edison vs. Tesla						
11	110/12/01~ 110/12/07	Einstein: "Oops, my watch is RELATIVELY slow!"						
12	110/12/08 ~ 110/12/14	Sport time: the LIVE golf on the moon.						
13	110/12/15~ 110/12/21	One, two, three and four, am I counting the "QUANTUM"? Probably!						
14	110/12/22 ~ 110/12/28	"Ketchup or Mayo?" "No, SEMICONDUCTORs on chips, please!"						
15	110/12/29~ 111/01/04	Turing and Shannon: "start a new world with only 0 and 1 [Enter]"						
16	111/01/05~ 111/01/11	When QUANTUM met COMPUTER, we entered the future.						
17	111/01/12 ~ 111/01/18	Final Exam Week						
18	111/01/19~ 111/01/25							
Re	equirement	Curiosity						
Teaching Facility		Computer, Other (Whiteboard/Blackboard)						
Textbooks and Teaching Materials		The slides of the lecture will be shared online.						
F	References							
Number of Assignment(s)		(Filled in by assignment instructor only)						
Grading Policy		<ul> <li>♦ Attendance: % ♦ Mark of Usual: 20.0 % ♦ Midterm Exam: %</li> <li>♦ Final Exam: 40.0 %</li> <li>♦ Other ⟨Written report⟩: 40.0 %</li> </ul>						
Note		This syllabus may be uploaded at the website of Course Syllabus Management System at <u>http://info.ais.tku.edu.tw/csp</u> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <u>http://www.acad.tku.edu.tw/CS/main.php</u> . <b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime</b> to improperly photocopy others' publications.						
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