Course Title	EVOLUTION OF TECHNOLOGIES	Instructor	CHEN, DUEN-KAI
Course Class	TNUZB0E GLOBAL TECHNOLOGY REVOLUTION, 0E	Details	◆ General Course ◆ Required ◆ One Semester ◆ 2 Credits
Relevance to SDGs	SDG4 Quality education SDG9 Industry, Innovation, and Infrastructure		

Departmental Aim of Education

Students will understand recent development of modern science and technology and its impact on human society and global environment. Through the design of course students will also be familiar with broadly-based fundamental technical knowledge and improve.

Subject Schoolwide essential virtues

1. A global perspective. (ratio:20.00)

2. Information literacy. (ratio:10.00)

3. A vision for the future. (ratio:20.00)

4. Moral integrity. (ratio:10.00)

5. Independent thinking. (ratio:10.00)

6. A cheerful attitude and healthy lifestyle. (ratio:10.00)

7. A spirit of teamwork and dedication. (ratio:10.00)

8. A sense of aesthetic appreciation. (ratio:10.00)

Course Introduction	Introduce new and emerging technologies to students and discuss how our society is affected by these technologies.

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	Introduce new and emerging technologies to students and discuss how our society is affected by these technologies.	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, Practicum	Study Assignments, Discussion(including classroom and online), Report(including oral and written), Activity Participation

Course Schedule

Week	Date	Course Contents	Note
1	115/02/23 ~ 115/03/01	Overview of this course	
2	115/03/02 ~ 115/03/08	What is Science and Technology Studies (STS) and What is ELSI (Ethical, Legal, Social Issues) ??	
3	115/03/09 ~ 115/03/15	Emerging technologies and its social impact	
4	115/03/16 ~ 115/03/22	Social Impact of Recent Information and Communication Technology Advancement	
5	115/03/23 ~ 115/03/29	Social Impact of Recent Information and Communication Technology Advancement	
6	115/03/30 ~ 115/04/05	Social Impact of Recent Information and Communication Technology Advancement	
7	115/04/06 ~ 115/04/12	Social Impact of Recent Information and Communication Technology Advancement	
8	115/04/13 ~ 115/04/19	Social Impact of Recent Information and Communication Technology Advancement	

9	115/04/20~ 115/04/26	Midterm Exam/Midterm Assessment Week (teachers can adjust the week as needed)	
10	115/04/27~ 115/05/03	Social Impact of Recent Information and Communication Technology Advancement	
11	115/05/04~ 115/05/10	Social Impact of Recent Information and Communication Technology Advancement	
12	115/05/11~ 115/05/17	Social Impact of Recent Information and Communication Technology Advancement	
13	115/05/18~ 115/05/24	Social Impact of Recent Information and Communication Technology Advancement	
14	115/05/25~ 115/05/31	Social Impact of Recent Information and Communication Technology Advancement	
15	115/06/01~ 115/06/07	Social Impact of Recent Information and Communication Technology Advancement	
16	115/06/08~ 115/06/14	Final Week of Diverse Assessments	
17	115/06/15~ 115/06/21	Final Week of Diverse Assessments/Flexible Teaching Week for Teachers	
18	115/06/22~ 115/06/28	Flexible Teaching Week for Teachers	

Key capabilities	Information Technology Social Participation Humanistic Caring Interdisciplinary
Interdisciplinary	Competency-based education 'competency exploration' sustained competency or global issues STEEP (Society, Technology, Economy, Environment, and Politics)
Distinctive teaching	
Course Content	Logical Thinking AI application
Requirement	Details of grading policy and how course proceed will be announce in the first class. Lecturer remains the rights to adjust grading policy. 成績計算及課程進行細節將於課堂上公布，且授課教師保留調整成績計算方式的彈性。

Textbooks and Teaching Materials	Self-made teaching materials:Presentations, Worksheets, edited news articles Using teaching materials from other writers:Videos, news articles
References	
Grading Policy	◆ Attendance： 　　% ◆ Mark of Usual：75.0 % ◆ Midterm Exam： 5.0 % ◆ Final Exam： 5.0 % ◆ Other〈course project〉：15.0 %
Note	This syllabus may be uploaded at the website of Course Syllabus Management System at https://web2.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. ※"Adhere to the concept of intellectual property rights" and "Do not illegally photocopy, download, or distribute." Using original textbooks is advised. It is a crime to improperly photocopy others' publications.