

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

Course Title	EVOLUTION OF TECHNOLOGIES	Instructor	CHEN, DUEN-KAI
Course Class	TNUZB0A GLOBAL TECHNOLOGY REVOLUTION, 0A	Details	<ul style="list-style-type: none"> <li>◆ General Course</li> <li>◆ Required</li> <li>◆ One Semester</li> </ul>
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			
<ol style="list-style-type: none"> <li>1. A global perspective. (ratio:20.00)</li> <li>2. Information literacy. (ratio:10.00)</li> <li>3. A vision for the future. (ratio:20.00)</li> <li>4. Moral integrity. (ratio:10.00)</li> <li>5. Independent thinking. (ratio:10.00)</li> <li>6. A cheerful attitude and healthy lifestyle. (ratio:10.00)</li> <li>7. A spirit of teamwork and dedication. (ratio:10.00)</li> <li>8. A sense of aesthetic appreciation. (ratio:10.00)</li> </ol>			
Course Introduction	Introduce to students new and emerging technologies 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 to students new and emerging technologies and discuss how our society is affected by these technologies.	Cognitive

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	Study Assignments, Discussion(including classroom and online), Report(including oral and written), Activity Participation

**Course Schedule**

Week	Date	Course Contents	Note
1	111/09/05 ~ 111/09/11	Overview of this course	
2	111/09/12 ~ 111/09/18	What is Science and Technology Studies (STS) and What is ELSI (Ethical, Legal, Social Issues) ??	
3	111/09/19 ~ 111/09/25	Emerging technologies and its social impact	
4	111/09/26 ~ 111/10/02	Social Impact of Recent Information and Communication Technology Advancement	
5	111/10/03 ~ 111/10/09	Social Impact of Recent Information and Communication Technology Advancement	
6	111/10/10 ~ 111/10/16	Social Impact of Recent Information and Communication Technology Advancement	
7	111/10/17 ~ 111/10/23	Social Impact of Recent Information and Communication Technology Advancement	
8	111/10/24 ~ 111/10/30	Social Impact of Recent Information and Communication Technology Advancement	

9	111/10/31 ~ 111/11/06	Social Impact of Recent Information and Communication Technology Advancement	
10	111/11/07 ~ 111/11/13	Midterm Exam Week	
11	111/11/14 ~ 111/11/20	Social Impact of Recent Information and Communication Technology Advancement	
12	111/11/21 ~ 111/11/27	Social Impact of Recent Information and Communication Technology Advancement	
13	111/11/28 ~ 111/12/04	Social Impact of Recent Information and Communication Technology Advancement	
14	111/12/05 ~ 111/12/11	Social Impact of Recent Information and Communication Technology Advancement	
15	111/12/12 ~ 111/12/18	Social Impact of Recent Information and Communication Technology Advancement	
16	111/12/19 ~ 111/12/25	Social Impact of Recent Information and Communication Technology Advancement	
17	111/12/26 ~ 112/01/01	Social Impact of Recent Information and Communication Technology Advancement	
18	112/01/02 ~ 112/01/08	Final Exam Week	
Requirement	<p>Details of grading policy and how course proceed will be announce in the first class. Lecturer remain 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。</p>		
Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	News / Magazine Articles of Emerging Technoloies		
References			
Number of Assignment(s)	(Filled in by assignment instructor only)		
Grading Policy	<p>◆ Attendance :            %    ◆ Mark of Usual : 80.0 %    ◆ Midterm Exam : 10.0 %  ◆ Final Exam :    10.0 %  ◆ Other &lt;   &gt; :            %</p>		
Note	<p>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> .</p> <p><b>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b></p>		