| Course Title | SOCIAL AND ETHICAL ISSUE IN TEACHNOLOGICAL INNOVATION | Instructor | NUR ANISAH BINTI ABDULLAH |
|---|---|---|---|
| Course Class | TDJAM1A<br>MASTER'S PROGRAM IN FUTURES STUDIES, DEPARTMENT OF EDUCATION AND FUTURES DESIGN, 1A | Details | ◆ General Course<br>◆ Selective<br>◆ One Semester |
| Relevance to SDGs | SDG9  Industry, Innovation, and Infrastructure<br>SDG11 Sustainable cities and communities<br>SDG12 Responsible consumption and production | | |

Departmental Aim of Education

Cultivating students' ability in the following areas: (1) in facing future changes and in integrating interdisciplinary knowledge, (2) in developing future-oriented thinking, and (3) in analyzing and planning the futures.

Subject Departmental core competences

A. The ability of critical thinking.(ratio:30.00)

B. The ability to analyze the future.(ratio:20.00)

C. The ability to examine social trends.(ratio:20.00)

D. The ability to think globally.(ratio:15.00)

E. The ability to empirically apply theories.(ratio:15.00)

Subject Schoolwide essential virtues

1. A global perspective. (ratio:10.00)

2. Information literacy. (ratio:20.00)

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

4. Moral integrity. (ratio:5.00)

5. Independent thinking. (ratio:30.00)

6. A cheerful 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 aims to explore social and ethical issues emerging from our reliance and dependence on technology in our everyday lives. The course introduces the use of Futures methodologies, in particular the Causal Layered Analysis (CLA) in analysing the impacts of technology on past, present and future societies; and Jim Dator's the Four Alternative Futures for scenarios analysis and development. |
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**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 | To provide students with an understanding of the complexities associated with technology and development; and To provide students with tools for analysing the social and ethical issues associated with technology and development. | Cognitive |

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

| No. | Core Competences | Essential Virtues | Teaching Methods | Assessment |
|---|---|---|---|---|
| 1 | ABCDE | 12345678 | Lecture, Discussion | Study Assignments, Discussion(including classroom and online), Activity Participation |

### Course Schedule

| Week | Date | Course Contents | Note |
|---|---|---|---|
| 1 | 112/02/13 ~ 112/02/19 | Introduction: course, course policies and assessment | |
| 2 | 112/02/20 ~ 112/02/26 | An introduction to the theory of complexity | |
| 3 | 112/02/27 ~ 112/03/05 | Trend Analysis - Using the S-Curve | |
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|---|---|---|---|
| 4 | 112/03/06 ~ 112/03/12 | Social and ethical issues associated with a select of trends and phenomena | |
| 5 | 112/03/13 ~ 112/03/19 | Reading Assignment and Student Presentation | |
| 6 | 112/03/20 ~ 112/03/26 | Emerging issues analysis - Using the Futures Wheel | |
| 7 | 112/03/27 ~ 112/04/02 | Understanding the impacts and consequences of a select emerging issues | |
| 8 | 112/04/03 ~ 112/04/09 | Reading Assignment and Student Presentation | |
| 9 | 112/04/10 ~ 112/04/16 | Introduction to Causal Layered Analysis (CLA) | |
| 10 | 112/04/17 ~ 112/04/23 | Reading Assignment and Student Presentation Part 1 | |
| 11 | 112/04/24 ~ 112/04/30 | Application of CLA for analysis - cases | |
| 12 | 112/05/01 ~ 112/05/07 | Course Project : Select a technological innovation that the society has learned to rely on and analyse its development over time- Using the S-curve | |
| 13 | 112/05/08 ~ 112/05/14 | Course Project: Complete the S-Curve for the select issue (project) | |
| 14 | 112/05/15 ~ 112/05/21 | Course Project: Identify some of the critical emerging issues of the select technological advancement | |
| 15 | 112/05/22 ~ 112/05/28 | Course Project: Develop a Futures Wheel for at least one of those critical emerging issue | |
| 16 | 112/05/29 ~ 112/06/04 | Course Project:Using CLA to de-construct each layer pertaining to the select issue | |
| 17 | 112/06/05 ~ 112/06/11 | Course Project: Complete Project Report | |
| 18 | 112/06/12 ~ 112/06/18 | Course Project: Complete Project Report | |
| Requirement | | | |
| Teaching Facility | | Computer, Projector, Other (Miro) | |
| Textbooks and Teaching Materials | | Journals on CLA published in the Journal of Futures Studies<br>Causal Layered Analysis 3.0 Edited by Sohail Inayatullah | |
| References | | | |
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| Number of Assignment(s) | **3**     (Filled in by assignment instructor only) |
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| Grading Policy | ◆ Attendance： 　20.0 ％ 　◆ Mark of Usual：80.0 ％ 　◆ Midterm Exam： 　　％<br><br>◆ Final Exam： 　　％<br><br>◆ Other〈 　〉： 　　％ |
| 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 .<br><br>※ **Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.** |