



Undergraduate Program

Mahidol University International College

Course Title Society and Technology in the Modern World

Course Code ICIR 324

Division Social Science

TQF 3 Course Specifications

Section 1 General Information

1. Course code and course

title

Thai ICIR ๓๒๔ สังคมและเทคโนโลยีในโลกสมัยใหม่

English ICIR 324 Society and Technology in the Modern World

ICSO 281

2. Number of credits 4 (4-0-8)

3. Program and type of subject

3.1 Program Undergraduate Degree (International Program)

3.2 Type of Subject Major elective

4. Course Coordinator and Course Lecturer

4.1 Course Coordinator William J. Jones

4.2 Course Lecturer TBA

5. Trimester/ Year of Study

5.1 Trimester As stipulated in annual Social Science Division course schedule

5.2 Course Capacity Approximately 40 students

6. Pre-requisite N/A

7. Co-requisites N/A

8. Venue of Study MUIC

9. Date of Latest Revision

Date 1 Month January Year 2018



## Section 2 Goals and Objectives

### 1. Course Goals

Students will describe and explain the social impact of science and technology up to c. 1900; the early 20th century: transportation, the technology of warfare, the ‘new physics’ of Einstein and Bohr; developments since World War II: computers, satellite communications, the Internet, genetic engineering, and medical advances.

### 2. Objectives of Course Development/Revision

#### 2.1 Course Objectives

To understand new technologies and media and their impact on society, economy and politics.

#### 2.2 Course-level Learning Outcomes: CLOs

By the end of the course, students will be able to (CLOs)

1. CLO1 Explain the significance of networks and the history of new media and technology
2. CLO2 Discuss and assess the impact of new media and technology on politics, economics and society
3. CLO3 Compare and contrast state mechanisms for managing new media and technologies
4. CLO4 Analyze how new media and technology are reworking contemporary culture and identity
5. CLO5 Evaluate how new media and technology are reshaping diasporas and fostering transnational civil society



### Section 3 Course Management

#### 1. Course Description

(Thai) ผลกระทบทางสังคมของวิทยาศาสตร์และเทคโนโลยีจนถึงคริสต์ศตวรรษที่ ๑๙ ช่วงต้นศตวรรษที่ ๒๐ : การขนส่ง เทคโนโลยีของสงคราม “ฟิสิกส์ใหม่”ของไอน์สไตน์และบอร์ (Bohr) พัฒนาการตั้งแต่สงครามโลกครั้งที่สอง คอมพิวเตอร์ การสื่อสารผ่านดาวเทียม อินเทอร์เน็ต พันธุวิศวกรรม และความก้าวหน้าทางการแพทย์ นักเรียนจะวิเคราะห์และประเมินผลกระทบของสื่อใหม่ในกิจการระหว่างประเทศ

(English) The social impact of science and technology up to c. 1900; the early 20th century: transportation, the technology of warfare, the ‘new physics’ of Einstein and Bohr; developments since World War II: computers, satellite communications, the Internet, genetic engineering, and medical advances. Students will analyze; assess; evaluate impacts of new media in international affairs.

#### 2. Credit hours per trimester

Lecture (Hour(s))	Laboratory/field trip/internship (Hour(s))	Self-study (Hour(s))
48	0	96

#### 3. Number of hours that the lecturer provides individual counseling and guidance.

- 4 hours/week
- Students could make requests for appointments whenever necessary.



Section 4 Development of Students' Learning Outcome

1. Short summary on the knowledge or skills that the course intends to develop in students (CLOs)

By the end of the course, students will be able to

1. CLO1 Explain the significance of networks and the history of new media and technology
2. CLO2 Discuss and assess the impact of new media and technology on politics, economics and society
3. CLO3 Compare and contrast state mechanisms for managing new media and technologies
4. CLO4 Analyze how new media and technology are reworking contemporary culture and identity
5. CLO5 Evaluate how new media and technology are reshaping diasporas and fostering transnational civil society

2. Teaching methods for developing the knowledge or skills specified in item 1 and evaluation methods of the course learning outcomes

Course Code	Teaching methods	Evaluation Methods
CLO1	Explain the significance of networks and the history of new media and technology	Class participation, Presentation, Essay
CLO2	Discuss and assess the impact of new media and technology on politics, economics and society	Class participation, Presentation, Essay
CLO3	Compare and contrast state mechanisms for managing new media and technologies	Class participation, Presentation, Essay
CLO4	Analyze how new media and technology are reworking contemporary culture and identity	Class participation, Presentation, Essay
CLO5	Evaluate how new media and technology are reshaping diasporas and fostering transnational civil society	Class participation, Presentation, Essay



Section 5 Teaching and Evaluation Plans

1. Teaching Plan

Class	Topic/Details	Number of hours	Online sessions	Instructor	Notes/Online Platform
1	Introduction / Wednesday 9 September 14.00- 15.50	2	x	Dr. Hardina Ohlendorf	Zoom Meeting ID: 883 0423 4392 Passcode: j78Qwc
2	The Social Life of Things/ 11 September 14.00- 15.50	2	x	s.a.	Zoom
3	Automobility 1	2	x	s.a.	s.a.
4	Automobility 2	2	x	s.a.	s.a.
5	Mobile Media 1	2	X	s.a.	s.a.
6	Mobile Media 2	2	X	s.a.	s.a.
7	The Internet and Civil Society 1	2	X	s.a.	s.a.
8	The Internet and Civil Society 2	2	x	s.a.	s.a.
9	Presentations	2	X	s.a.	s.a.
10	Review	2	X	s.a.	s.a.
11	Automation and Artificial Intelligence 1	2	X	s.a.	s.a.



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12	Automation and Artificial Intelligence 2	2	X	s.a.	s.a.
13	Prosumption and the Platform Economy 1	2	X	s.a.	s.a.
14	Prosumption and the Platform Economy 2	2	X	s.a.	s.a.
15	Privacy and Surveillance 1	2	X	s.a.	s.a.
16	Privacy and surveillance 2	2	X	s.a.	s.a.
17	Fake News and Truth Claims 1	2	X	s.a.	s.a.
18	Fake News and Truth Claims 2	2	X	s.a.	s.a.
19	Cyborg Technology and the Enhanced Body 1	2	X	s.a.	s.a.
20	Cyborg Technology and the Enhanced Body 2	2	X	s.a.	s.a.
21	Biotechnology and Patenting 1	2	X	s.a.	s.a.
22	Biotechnology and Bio-patenting 2	2	X	s.a.	s.a.



23	Review and Concluding discussion	2	X	s.a.	s.a.
24	Make-up class for 7 September to be re-scheduled during the term	2	X	s.a.	s.a.
	Total	48			

2. Plan for Assessing Course Learning Outcomes

2.1 Assessing and Evaluating Learning Achievement

a. Formative Assessment

classroom participation 10%

two quizzes 10%

group debate 10%

group presentation 30%

final essay 40%

b. Summative Assessment

(1) Tools and Percentage Weight in Assessment and Evaluation

Learning Outcomes	Assessment Methods	Assessment Ratio (Percentage)	
CLO1 Explain the significance of networks and the history of new media and technology	Classroom participation	10	20
	Quizzes	10	
CLO2 Discuss and assess the impact of new media and technology on	Group debate	10	20
	Group presentation	10	



politics, economics and society			
CLO3 Compare and contrast state mechanisms for managing new media and technologies	Classroom participation	10	20
	Group presentation	10	
CLO4 Analyze how new media and technology are reworking contemporary culture and identity	Group debate	10	20
	Group presentation	10	
CLO5 Evaluate how new media and technology are reshaping diasporas and fostering transnational civil society	Final essay	20	40
Total			100

(2) Grading System

Grade	Achievement	Final score (% range)
A	Excellent	90-100
B+	Very Good	85-89
B	Good	80-84
C+	Fairly Good	75-79
C	Fair	70-74
D+	Poor	65-69
D	Very Poor	60-64
F	Fail	Less than 60





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(3) Re-examination (If course lecturer allows to have re-examination)

N/A - (Not applicable with MUIC)

### 3. Student Appeals

#### Section 6 Teaching Materials and Resources

##### 1. Textbooks and/or other documents/materials

1. Hjorth, Larissa and Khoo, Olivia (eds), *Routledge Handbook of New Media in Asia*, London and New York: Routledge, 2016.
2. Stearns, Peter N., *The Industrial Revolution in World History*, 4<sup>th</sup> ed., Boulder: Westview, 2012.
3. Williams, Rosalind H., *Notes on the Underground: An Essay on Technology, Society, and the Imagination*, Cambridge, MA: MIT Press, 2008

##### 2. Recommended textbooks and/or other documents/materials

1. Selected articles from print and online media such as *Foreign Affairs*, *The Economist* and *Nikkei Asian Review*

##### 3. Other Resources (If any)

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#### Section 7 Evaluation and Improvement of Course Management

##### 1. Strategies for evaluating course effectiveness by students

Written examinations and group presentation

##### 2. Strategies for evaluating teaching methods

Student feedback, course evaluation, peer evaluation

##### 3. Improvement of teaching methods

Student feedback, course evaluation, peer evaluation

##### 4. Verification process for evaluating students' standard achievement outcomes in the course

Written examinations and group presentation

##### 5. Review and plan for improving the effectiveness of the course

Student feedback, course evaluation, peer evaluation



Appendix

Alignment between Courses and Program

Table 1 The relationship between course and Program Learning Outcomes (PLOs)

Society & Technology in the Modern World	Program Learning Outcomes (PLOs)						
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
ICIR 324	✓	✓	✓	✓	✓		✓

Note: Indicate the level of CLOs by letter I, R, P or M. Using the information as shown in the

Curriculum Mapping of TQF2

Table 2 The relationship between CLOs and PLOs

ICIR 324	Program Learning Outcomes (PLOs)						
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
CLO1 Explain the significance of networks and the history of new media and technology	✓	✓					



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CLO2 Discuss and assess the impact of new media and technology on politics, economics and society	✓	✓	✓				
CLO3 Compare and contrast state mechanisms for managing new media and technologies			✓	✓			
CLO4 Analyze how new media and technology are reworking contemporary culture and identity			✓	✓	✓		
CLO5 Evaluate how new			✓	✓	✓		✓



media and technology are reshaping diasporas and fostering transnational civil society							
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Table 3 The description of PLOs and Sub Los of the course

PLOs	Sub PLOs
PLO1 Graduates will be able to describe and explain key features of and issues concerning the current world order, with particular attention to the Asia-Pacific region, using appropriate terminology	1.1 demonstrate an understanding of the principles upon International Relations and the Asia-Pacific region are built
	1.2 identify the national & global challenges associated with current economic, political, and social systems
	2.2 collect, analyse, synthesize data, & evaluate information and ideas from multiple sources relevant to issues/problems
PLO2 Graduates will be able to discuss and apply major theories, approaches and methodologies in the field of international relations and global affairs in order to analyze	1.1 demonstrate an understanding of the principles upon International Relations and the Asia-Pacific region are built
	2.1 identify concepts related to the context of learned issues/topics



<p>the current world order and how it has evolved over time</p>	<p>3.1 connect, synthesize and/or transform ideas or solutions within a particular framework</p>
<p>PLO3 Graduates will be proficient readers who are able to locate, evaluate, analyze and synthesize different forms of data and source materials relevant to international relations and global affairs</p>	<p>2.2 collect, analyse, synthesize data, &amp; evaluate information and ideas from multiple sources relevant to issues/problems</p>
	<p>3.2 integrate alternative, divergent, or contradictory perspectives or ideas in the solution of a problem or question</p>
	<p>4.1 collect, analyse, synthesize data, &amp; evaluate information and ideas from multiple sources relevant to issues/problem</p>
<p>PLO4 Graduates will be able to develop and present arguments about and solutions to issues in international relations and global affairs using written, oral and/or visual forms; in doing so they will consider different perspectives, show respect for evidence, and engage in constructive debate</p>	<p>4.1 collect, analyse, synthesize data, &amp; evaluate information and ideas from multiple sources relevant to issues/problem</p>
	<p>4.2 communicate/present ideas effectively both oral &amp; written forms, proper to a range of audience groups, such as verbal discussion with peers, project report</p>
	<p>4.3 prepare a purposeful oral presentation designed to increase knowledge, to foster understanding, or to promote change in the listeners' attitudes, values, beliefs, or behaviors</p>



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PLO5 Graduates will demonstrate knowledge of and respect for cultural differences, particularly in the Thai context, and be able to work in culturally diverse groups effectively	5.1 identify the national & global challenges associated with current economic, political, and social systems
	5.2 exhibit characteristics of responsible citizenship
	5.3 work effectively in diverse team (and multi-cultural settings)
PLO7 Graduates will demonstrate knowledge of internationally recognized ethical standards and apply principles of ethical reasoning to decision-making, civic engagement, and research, consistently crediting the work of others	7.1 identify ethical issues and recognize different viewpoint and ideologies
	7.3 apply principle of ethical leadership, collaborative engagement, and respect diversity