

Republic of the Philippines CEBU TECHNOLOGICAL UNIVERSITY Province of Cebu

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COURSE SYLLABUS

in

GEC-STS

(Course Code)

SCIENCE, TECHNOLOGY, AND SOCIETY

(Descriptive Title)

1stSemester, A.Y. 2021-2022

INS Form 1 September 2021 Revision: 4 Page 1 of 8 pages

Department/Area Pure Sciences All programs Curriculum

Curriculum Year First year/Second Year

54 Hours No. of Hours/Sem.

Credit Unit(s)

Prerequisite(s) NONE

Vision of the University: A premier multidisciplinary-technological university

Mission of the University: The University shall primarily provide advanced professional and technical instruction for special purposes

advanced studies in industrial trade, agriculture, fishery, forestry aeronautics and land-based program, arts and sciences, health sciences, information technology and other relevant fields of study. It shall also undertake research and extension services, and

provide progressive leadership in its areas of specialization.

Goal of the University The University shall produce scientifically and technologically oriented human capital equipped with appropriate

knowledge, skills, and attitudes. It shall likewise pursue relevant research, strengthen linkages with the industry, community and

other institutions and maintain sustainable technology for the preservation of the environment.

Core Values : Commitment, Transparency, Unity, Patriotism, Integrity, Excellence, Spirituality (CTU PIES) **Program Outcomes** : Common to all Programs

PO1Articulation of the latest developments in the specific field of practice.

PO2Effective communication through oral and written forms using both English and Filipino.

PO3Competence to work effectively and independently in multi-disciplinary and multi-cultural teams.

PO4Recognition of professional, social, and ethical responsibilities.

Course Description

The course deals with interactions between science and technology and social, cultural, political, and economic contexts that shape and are shaped by them.

This interdisciplinary course engages students to confront the realities brought about by science and technology in society. Such realities pervade the personal, the public, and the global aspects of our living and are integral to human development. Scientific knowledge and technological development happen in the context of society with all its socio-political, cultural, economic, and philosophical underpinnings at play. This course seeks to instill reflective knowledge in the students that they are able to live the good life and display ethical decision making in the face of scientific and technological advancement.

This course includes mandatory topics on climate change and environmental awareness.

Course Learning Outcomes

At the end of the course, the students would be able to:

CLO1Articulate the impacts of science and technology on society

CLO2 Imbibe the importance of science and technology in the preservation of the environment and the development of the Filipino nation

CLO3 Examine shared concerns that make up the good life in order to come up with innovative and creative solutions to contemporary issues guided by ethical standards

INTENDED LEARNING OUTCOMES (TIME ALLOCATION)	ASSESSMENT TASKS	TEACHING- LEARNING ACTIVITIES	CONTENTS	LEARNING RESOURCES	REMARKS
Within the semester the learners	Create a video	Interactive Lecture-	I. Orientation	Student Manual	
are expected to:	presentation	Discussion		www.ctu.edu.ph	
	demonstrating		1. CTU's Vision, Mission,	Course Syllabus	
explain the relevance of the vision,	their	Video Presentation of	and Goals	Oddisc Oyllabas	
mission, and goals of CTU in	understanding of how to apply	CTU milestones	O. Calaad Daliaiaa	CTU history and promotional	
meeting lifelong challenges of the society (CLO's 2 and 3), (3 hours)	the CTU's	Readings from the	2. School Policies	videos	
Society (GLO's 2 and 3), (3 hours)	VMGO to their	Student Manual and	3. Course Outline and		
	student journey.	Course Syllabus	Requirements	Teacher's slide presentation	
				Zoom/GoogleMeet/Google	
	D .)		Classroom	
articulate ways by which society is	Design an e-	Video film Watching	II. Historical Development of STS	Copernican https://tinyurl.com/9x5c8mzk	
transformed by science and technology (CLO!), (12 hours)	concept map highlighting the	Group-Individual Oral	1. Historical Background of	Darwinian	
technology (CLO !) , (12 hours)	history and	Presentation	STS	https://tinyurl.com/bjr4xymm https://tinyurl.com/z6c3mbwj	
	contributions of	1 recentation	a. in the World: Ancient,	https://tinyurl.com/4fwtbsdk	
	each Intellectual	Note making from video	Middle and Modern	https://tinyurl.com/367vzdbs Freudian	
	revolution that	materials	Ages, and	https://tinyurl.com/ezxst6ca	
	made significant		b. in the Philippines	Information	
	impact globally	Discussion Board		https://tinyurl.com/u9hvvhf9 https://tinyurl.com/exk9ywmt	
	and present in		2. Intellectual revolutions that	World's Greatest Inventions	
	class	Chat share dynamics	defined society a. Copernican	https://tinyurl.com/2zx78kmk Philippine Great Inventions	
	Written	Digital media-based	b. Darwinian	https://tinyurl.com/a348h5b5	
	insights/reaction	assignments	c. Freudian	European Intellectual	
	from the video	and a grant and	d. Information	Movement	
		Live Discussion	e. Meso-American	https://tinyurl.com/ythwe29x What Is A Paradigm?	
	-Individual		f. Asian	https://tinyurl.com/hvr6euz	
	recitation		g. Middle East	Mesoamerican	
	O:-		h. African	https://tinyurl.com/245vd2ps https://tinyurl.com/9h385rsw	
	-Quiz		2 Science and Tachnology	Asian	
			Science and Technology and Nation Building	https://tinyurl.com/rd3xhsmy https://tinyurl.com/z5vye8ab	
			and Nation Building	THE STATE OF THE S	

Page **4** of **8**

				Page 4 of 8
				https://tinyurl.com/ypt4cf3w https://tinyurl.com/38wddt4p Middle East https://tinyurl.com/3c23u4wc African https://tinyurl.com/yudafez8 https://tinyurl.com/mcjk25sj
		PRELIM EXAM	(1.5 hours)	
evaluate the human condition in pursuit of the good life within the context of science and technology(CLO's 2 and 3), (9 hour)s	Presentation of a digital collage that reflects student's view on how technology influences the attainment of a good life Video presentation discussing how they view "The Good Life" Unit Quiz	Interactive Lecture-Discussion Viewing video clips for reflection Group Activity comparing ways of doing something (technologically sophisticated vs simple way) and discuss the consequences.	III. STS and The Human Condition 1. Human Flourishing 2. Technology as a Way of Revealing 3. The Good Life	Videos and reading materials: Film segment: Akiro Kurosawa's Dreams "Village of the Watermills" https://tinyurl.com/rt9utwa2 The Question Concerning Technology by Martin Heidegger https://tinyurl.com/eha5u4tk https://tinyurl.com/4x5jdchp The Concept Of The Public Good:A View From A Filipino Philosopher https://tinyurl.com/5dsw2z6f Slide presentation
	.	MIDTERM EXAM		
examine human experiencesand government policies involved in the upholding of human rights amid technological ethical dilemmas (CLO's 2 and 3), (9 hours)	Review of local and international government policies (and suggest new ones) that protect the well being of the person in the face of new	Debate Interactive Lecture Discussion Reflective essay Word cloud	IV. Technology and Humanity 1. When Technology And Humanity Cross 2. Why does the future not need us?	"Why the Future Does Not Need Humanity" https://tinyurl.com/4kjpsc9w The ethical dilemmas of robotics https://tinyurl.com/3zcczdhf Is Google Making Us Stupid? 2008. NicholasCarr https://tinyurl.com/rdk6dr

Page **5** of **8**

					Page 5 of 8
	technologies				
	Summary of important concepts using the word cloud				
		PRE-FINAL EXAI			
discuss the ethics and implications of the different issues in STS and	Online quiz through google	Pre-recorded lectures	V. Specific Issues in STS	Teacher-made or adapted ppt	
their possible impacts, (CLO's 1, 2 and 3)(15 hours)	forms, quizziz.com, kahoot, etc. Reaction paper on the different issues in STS Making of concept maps on the benefits and	Video presentations Interactive online discussion (synchronous) Group dynamics through breakout sessions using Zoom/Google Meet	 Introduction Biodiversity and The Healthy Society Genetically Modified Organisms: Science Health and Society The Nano World The Aspects of Gene Therapy Climate Change and the 	Adapted video clipping or presentations Learning module or Course packs Learning activities	
	detriments of certain issues Oral		Energy Crisis 7. Environmental Awareness Other Topics:		
	recitation/Online quiz proctored by the subject instructor		Alternative Energy Resources (e.g. O-tech Ocean Thermal Energy Conversion)		
FINAL EXAM (1.5 hours)					

References:

- Bautista, D. et al. (2018) Science, Technology, and Society, MaxCor Publishing House, Quezon City, Philippines
- Serafica, J. et al. (20180 Science, Technology, and Society, Rex Printing Company, Inc., Quezon City, Philippines
- Starr, C. et al. (2009) Biology: The Unity and Diversity of Life 12th ed., Brooks/Cole. USA
- Article: "The politics of Golden Rice" (Dubock, Adrian GM Crops & Food. July September 2014, Volume 5 Issue 3 page 210-222)
- https://www.mja.com.au/system/files/issues/204_10/10.5694mja15.01128.pdf
- https://www.slidesha re.net/suryasagar16/ nanotechnology- advantages-and- disadvantages
- https://www.as.gct.org/education/gene- therapy-basics
- https://www.slides hare.net/anniemirz a14/gene-therapy- 58257727
- https://www.youtube.com/watch?v=EU15c9hnftE
- https://www.youtube.com/watch?v=bidWE0qdtlk
- Fiske, Shirley J. et al. Changing the Atmosphere: Anthropology and Climate Change (NCAR)
- https://www.youtube.com/watch?v=ESW_S8ZHS80

Course Requirements:	Term Examinations,	Online Quizzes,	, Online Presentations	, Reflection Pa	pers
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Evaluation Procedure:

Major Exams		40%
Class Standing		60%
Quizzes	30%	
Graded Oral Presentation	20%	
Projects/Assignments/Final Reports	10%	
TOTAL	L	100%

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Revision Date: September2-3, 2021

Submission Date: September 10, 2021

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