



Republic of the Philippines
SULTAN KUDARAT STATE UNIVERSITY
JC Monilla, 9300 City of Tacurong
COLLEGE OF INDUSTRIAL TECHNOLOGY
GEC 003 SCIENCE, TECHNOLOGY & SOCIETY/AT at L



UNIVERSITY VISION

A leading University in advancing scholarly innovation, multi-cultural convergence, and responsive public service in a borderless Region.

UNIVERSITY MISSION

The University shall primarily provide advanced instruction and professional training in science and technology, agriculture, fisheries, education and other related fields of study. It shall also undertake research and extension services, and provide progressive leadership in its areas of specialization.

UNIVERSITY STRATEGIC GOALS

- a. Deliver quality service to stakeholders to address current and future needs in instruction, research, extension, and production
- b. Observe strict implementation of the laws as well as the policies and regulations of the University
- c. Acquire with urgency state-of-the-art resources for its service areas
- d. Bolster the relationship of the University with its local and international customers and partners
- e. Leverage the qualifications and competencies in personnel action and staffing
- f. Evaluate the efficiency and responsiveness of the University systems and processes

INSTITUTIONAL OUTCOMES (IO)

- III. Enhance competency development, commitment, professionalism, unity and true spirit of service for public accountability, transparency and delivery of quality services
- mmm. Provide relevant programs and professional trainings that will respond to the development needs of the region
- nnn. Strengthen local and international collaborations and partnerships for borderless programs
- ooo. Develop a research culture among faculty and students
- ppp. Develop and promote environmentally-sound and market-driven knowledge and technologies at par with international standards
- qqq. Promote research-based information and technologies for sustainable development
- rrr. Enhance resource generation and mobilization to sustain financial viability of the university

PROGRAM OUTCOMES (PO) COMMON TO ALL PROGRAMS AND ITS RELATIONSHIPS TO INSTITUTIONAL OUTCOMES

	INSTITUTIONAL OUTCOMES (IO)						
	a	b	c	d	e	f	g
A graduate of Sultan Kudarat State University can:							
kk. Articulate effectively and independently in multi-disciplinary and multi-cultural teams the latest development in the fields practiced such as Automotive, Architectural Drafting, Civil, Electrical, Electronics, Food and its allied discipline.	✓	✓		✓	✓	✓	✓
ll. Lead in the promotion and preservation of Filipino historical and cultural heritage, social empowerment and environmental sustainability in a professional and ethical approach.	✓	✓	✓	✓	✓	✓	✓

mm. Generate research-based information and technologies at par from international standards, and	✓	✓	✓	✓	✓	✓	✓
nn. Promote and transfer knowledge and technologies for effective and efficient school-industry partnership	✓	✓	✓	✓	✓	✓	✓

1 COURSE CODE GEC 003

5 COURSE DESCRIPTION
2 COURSE TITLE SCIENCE, TECHNOLOGY & SOCIETY/AT at L
3 PREREQUISITE NONE
4 CREDITS 3 units

THIS COURSE DEALS WITH THE INTERACTIONS BETWEEN SCIENCE, TECHNOLOGY, AND SOCIETY THAT INFLUENCE AND SHAPE THE MODERN WORLD. IT AIMS TO DEVELOP STUDENTS' CRITICAL UNDERSTANDING OF HOW SCIENTIFIC AND TECHNOLOGICAL ADVANCEMENTS AFFECT INDIVIDUALS, COMMUNITIES, AND THE ENVIRONMENT. THE COURSE ENCOURAGES REFLECTION ON ETHICAL, CULTURAL, AND SOCIAL IMPLICATIONS OF SCIENCE AND TECHNOLOGY IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT AND GLOBAL CITIZENSHIP.

6 COURSE LEARNING OUTCOMES (CLO) AND ITS RELATIONSHIPS TO PROGRAM OUTCOMES

Course Learning Outcomes (CLO)		Program Outcomes			
At the end of the course, a student can:		a	b	c	d
a. Explain the role of Science and Technology in shaping society and human progress		✓	✓		
b. Analyze historical developments and key contributions of science and technology in the Philippines		✓	/	✓	✓
c. Evaluate ethical and societal issues related to science and technology innovations		✓		✓	✓
d. Demonstrate critical awareness of environmental and sustainability issues in relation to technological growth.		✓	✓	✓	✓
e. Present a research-based report on the impact of emerging technologies in society.		✓	✓	✓	✓

7 COURSE CONTENTS

WEEK	CONTENT	INTENDED LEARNING OUTCOMES (ILOs)	TEACHING AND LEARNING ACTIVITIES (TLA)	OUTCOMES-BASED ASSESSMENT (OBA)	COURSE LEARNING OUTCOMES (CLOs)
1	Course Orientation SKSU VMGO, Classroom Policies, Course Overview, Course Requirements, Grading System	At the end of the Orientation, the Learners can: a. Discusses the University's VMGO, classroom policies, course overview, requirements, and grading system	Discuss the VMGO of the University, the classroom policies, the scope of the course, course requirements, and the grading system		
2	Introduction to Science, Technology, and Society	At the end of the Lessor, the Learners can: Define science, technology, and society and describe their interrelations	a. Interactive Lecture b. Discussions and visual presentations c. group sharing	p. Short quiz q. Concept Note from the Discussion r. Oral Recitation/board work	A

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3-4	Historical Development of Science and Technology	At the end of the Lessor, the Learners can: Trace key milestones in science and technology from ancient to modern times	a. Group activity b. Video Analysis c. Timeline creation	n. Group report	B
5	Science and Technology in the Philippines	At the end of the Lessor, the Learners can: Identify major Filipino scientists and their contributions	Lecture Film viewing	n. Individual Report	B
6	Science and Technology Policies and Governance	At the end of the Lessor, the Learners can: Discuss government programs and policies on S&T	Discussion Policy analysis	m. written output	BC
7	Ethics in Science and Technology	At the end of the Lessor, the Learners can: Analyze ethical dilemmas and moral responsibilities in scientific work	Debate, case study	m. reflection essay	C
8 MIDTERM EXAM					
9-10	Technology and the Environment	At the end of the Lessor, the Learners can: Examine the relationship between technological progress and environmental sustainability	Lecture Poster - making	Poster Presentation	D
11-12	Globalization and the Information Age	At the end of the Lessor, the Learners can: Discuss how digital technology reshapes communication and society	Lecture Group discussion	Group presentation	D
13-14	Emerging Technologies (AI, Biotechnology, Nanotech)	At the end of the Lessor, the Learners can: Evaluate impacts of emerging technologies on society	Multimedia presentation Research	Research report	DE
15	Gender, Culture, and Science	At the end of the Lessor, the Learners can: Explore the roles of gender and culture in scientific development	Lecture Group forum	Written Reflection	CD
16	Science, Technology, and Human Flourishing	At the end of the Lessor, the Learners can: Explain how science and technology contribute to human well-being	Workshop Group activity	reaction paper	AD
17	Capstone Project: Technology Impact Assessment	At the end of the Lessor, the Learners can: Conduct a case study on a local technological innovation	Independent project consultation	Research paper Presentation	E
18	Review and Integration	At the end of the Lessor, the Learners can: Synthesize major topics in STS	Group activity Reflection sharing	Final Essay	ABCDE
19	Final Examination				

FINAL EXAMINATION
Total No. of Hours : 120

8 COURSE REQUIREMENTS AND COURSE POLICIES

COURSE REQUIREMENTS

Each student is required to:

36. Class participation and attendance
37. Submit reflection papers, reports and research outputs on schedule.
38. Quizzes and exam
39. Group/individual projects
40. Final output presentation

COURSE POLICIES

Attendance: A student will be marked late if he/she enters the class 5 minutes after the start of the class period. Any student who comes to class 15 minutes or always late for three consecutive meetings shall be marked absent.

Missed work or exam: Any student who failed to submit a work assignment or to take a test should consult the concerned instructor for immediate compliance

Cheating and Plagiarism: Any student who commits any form of academic dishonesty (e.g., copy-paste plagiarism) shall be given disciplinary action provided in the

Use of Technology: Please turn off your cell phones while the session is in progress. Using laptops, notebook PCs, smartphones, and tablets shall be allowed on

9 GRADING SYSTEM

GRADING SYSTEM

Midterm Grade	
Reporting	45%
Examination	35%
Attendance/ Class Participation	15%
Quizzes	10%
TOTAL	100%

Final Grade	
Reporting	45%
Examination	35%
Attendance/ Class Participation	15%
Quizzes	10%
TOTAL	100%

10 REFERENCES

Books and Modules

- Abao, E., & Alcantara, J. (2018). *Science, Technology, and Society*. Quezon City: C&E Publishing, Inc.
- Barroga, E. (2020). *Understanding Science, Technology, and Society: A Philippine Perspective*. Rex Book Store, Manila.
- Salazar, L., & Dela Cruz, M. (2019). *Science, Technology, and Society (STS) in the Contemporary World*. Manila: Mindshapers Co., Inc.
- CHED (2013). CMO No. 20, Series of 2013: General Education Curriculum – Holistic Understandings, Intellectual and Civic Competencies. Commission on Higher Education, Philippines.
- Cuyegkeng, M., & De Guzman, M. (2017). *Science, Technology, and Society: An Interdisciplinary Approach*. Ateneo de Manila University Press.

Online and Open Educational Resources

- UNESCO (2015). *Science for a Sustainable Future*. Retrieved from <https://en.unesco.org/themes/science-society>
- National Academy of Sciences (2017). *Science, Technology, and Society: Overview*. Retrieved from <https://www.nap.edu/>
- Department of Science and Technology (DOST) Philippines. *Science and Technology Programs and Initiatives*. Retrieved from <https://www.dost.gov.ph>
- United Nations (2020). *The Role of Science, Technology and Innovation in Achieving the Sustainable Development Goals*. Retrieved from <https://sdgs.un.org>
- CHED (2022). *General Education Teaching Guide: Science, Technology, and Society*. Commission on Higher Education, Philippines.

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