



ELX 223– ELECTRONIC LAWS AND STANDARDS

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 competences in personnel action and staffing
- f. Evaluate the efficiency and responsiveness of the University systems and processes

INSTITUTIONAL OUTCOMES (IO)

- a. Enhance competency development, commitment, professionalism, unity and true spirit of service for public accountability, transparency and delivery of quality services
- b. Provide relevant programs and professional trainings that will respond to the development needs of the region
- c. Strengthen local and international collaborations and partnerships for borderless programs
- d. Develop a research culture among faculty and students
- e. Develop and promote environmentally-sound and market-driven knowledge and technologies at par with international standards
- f. Promote research-based information and technologies for sustainable development
- g. 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

A graduate of the BlndTech program can:	INSTITUTIONAL OUTCOMES (IO)						
	a	b	c	d	e	f	g
a. Analyze broadly defined industrial technology processes by using analytical tools that enhance creativity, innovativeness, and intellectual curiosity to improve methods, processes, and systems that meet the industry standards;	✓	✓				✓	
b. Design and implement broadly defined industrial systems, components, products, or processes to meet specific industry needs with proficiency and flexibility in the area of specialization in accordance with global standards;	✓	✓		✓		✓	

c. Apply appropriate techniques, resources, and state-of-the-art industrial technology tools to meet current industry needs and use these modern tools and processes to improve and increase entrepreneurial activities upholding the safety and health standards of business and industry;	✓		✓	✓	✓		
d. Communicate with diverse groups of clienteles the appropriate cultural language with clarity and persuasion, in both oral and written forms, including understanding and giving of clear instructions, high comprehension level, effectiveness in delivering presentations and writing documents, and articulating technological innovation outputs;	✓	✓	✓	✓	✓		
e. Develop leadership and management skills in a team-based environment by making informed decisions, keeping the team motivated, acting and delegating responsibility, and inspiring positive changes in the organization by exercising responsibility with integrity and accountability in the practice of one's profession;	✓	✓	✓	✓		✓	✓
f. Practice the moral responsibilities of an industrial technologist to manage and balance wider public interest and uphold the norms and safety standards of the industrial technology profession;			✓	✓	✓	✓	✓
g. Demonstrate enthusiasm and passion for continuous personal and professional development in broadly defined industrial technology and effecting positive changes in the entrepreneurial and industrial endeavor; and	✓	✓	✓	✓	✓	✓	✓
h. Recognize the need for, and an ability to engage in lifelong learning.	✓	✓	✓	✓	✓	✓	✓

1 COURSE CODE ELX 223

2 COURSE TITLE Electronic Laws and Standards

3 PREREQUISITE ELX 221

4 CREDITS 3 units

5 COURSE DESCRIPTION

This course is designed to prepare electronic technologists for professional practice and standards. Topics include the knowledge and practice of electronic technician/technologist stipulations in RA 9292 and other relevant laws, the Philippine Electronics Code, Radio Laws, Basic contracts, and Ethics in relation to the profession.

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

Course Learning Outcomes (CLO)

At the end of the course, a student can:

- Understand SKSU-VGMO, Classroom Policies, Course Overview, Course Requirements and Grading System;
- Understand the legal framework governing the electronics profession in the Philippines.
- Analyze the implications of RA 9292 and its relevance to electronic technologists.
- Discuss the Philippine Electronics Code and its application in the industry.
- Identify and interpret Radio Laws and their significance in electronic communications.
- Evaluate ethical considerations and professional conduct in the electronics field.
- Understand the basics of contracts and obligations relevant to electronic engineering.
- Assess the role of regulatory bodies in maintaining standards and practices in electronics.

Program Outcomes

a	b	c	d	e	f	g
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓

7 COURSE CONTENTS				
WEEK	CONTENT	INTENDED LEARNING OUTCOMES (ILOs)	TEACHING AND LEARNING ACTIVITIES (TLA)	OUTCOMES-BASED ASSESSMENT (OBA)
1	Course Orientation SKSU VMGO, Classroom Policies, Course Overview, Course Requirements, Grading System	At the end of the week, the student can: a. Discuss the University's VMGO, classroom policies, course overview, requirements and grading system	Discuss the VMGO of the University, the classroom policies, scope of the course, course requirements and grading system	a. Participation in discussions a. Standards and Ethics Quiz b. participation c. Component Identification Quiz d. Regulatory Analysis Report e. Lab Report
2	National Professional Practice a. Professional Standards and Ethics. b. Professional Practices	At the end of the week, the students can: a. Demonstrate an understanding of national professional standards and ethical guidelines in their field. b. Analyze the regulatory frameworks that impact professional practice at the national level. c. Apply national professional practices to case scenarios, demonstrating an understanding of best practices in their field.	a. Video/PowerPoint presentation b. Lectures on national standards and ethics. c. Lab Session on Pneumatic System Implementation d. Group discussions e. Activity 2.1 Case Study Analysis	abcdefg abcdefg
3	RA 9292 Overview a. Purpose and Scope of RA 9292. b. Key Provisions of RA 9292	At the end of the week, the students can: a. Explain the purpose, scope, and significance of RA 9292 in the field of electronics engineering. b. Identify and describe the key provisions and requirements outlined in RA 9292. c. Analyze the role of professional regulation in ensuring competency and ethical standards in electronics engineering. d. Discuss the requirements for continuing professional development (CPD) as mandated by RA 9292 and its importance for career advancement.	a. Video/PowerPoint presentation b. Interactive Lecture on RA 9292 c. Group Discussion d. Practical Demonstration e. Activity 3.1 Research Project on RA 9292 Impact	abcdefg abcdefg

4	<p>Philippine Electronics Code</p> <p>a. Operation of pneumatic cylinders and their applications.</p>	<p>At the end of the week, the students can:</p> <ul style="list-style-type: none"> a. Explain the purpose, scope, and significance of the Philippine Electronics Code in regulating the electronics profession. b. Identify and describe the key provisions and technical standards established in the Philippine Electronics Code. c. Discuss the role of regulatory bodies in enforcing the Philippine Electronics Code and ensuring professional standards. d. Evaluate the performance of pneumatic cylinders and identify necessary maintenance practices to ensure reliability. 	<ul style="list-style-type: none"> a. Video/PowerPoint presentation b. Lecture on the Electronics Code c. Research and Presentation Project d. Group Discussion e. Activity 4.1 Group Research Project 	<ul style="list-style-type: none"> a. Overview Quiz b. Participation c. Activity outputs d. Quiz e. Reflection Essay f. Provision Summary Report 	abcdefg
5	<p>Radio Laws</p> <p>a. Flow control valves in pneumatic circuits.</p>	<p>At the end of the week, the students can:</p> <ul style="list-style-type: none"> a. Explain the purpose, scope, and significance of radio laws in regulating the use of radio frequencies and broadcasting. b. Identify and describe the key provisions and regulations established by radio laws governing broadcasting and communication. c. Analyze the compliance requirements and enforcement mechanisms associated with radio laws. d. Discuss the role of regulatory bodies in enforcing radio laws and ensuring compliance in the broadcasting sector. 	<ul style="list-style-type: none"> a. Video/PowerPoint presentation b. Lecture on Radio Laws c. Group Research Assignment c. Group Activity d. Activity 5.1 Research and Presentation Project 	<ul style="list-style-type: none"> a. Quiz b. participation c. Activity outputs d. Group reporting e. Reflection Essay 	abcdefg
6	MIDTERM EXAM				

7	<p>Basic Contracts</p> <ul style="list-style-type: none"> a. Elements of contracts and their relevance in electronics. b. Basic Elements of Contracts 	<p>At the end of the week, the students can:</p> <ul style="list-style-type: none"> a. Identify and explain the basic elements of contracts, including offer, acceptance, consideration, and legality. b. Evaluate common terms and conditions found in electronics contracts and their implications for parties involved. c. Apply contract principles to real-world scenarios within the electronics industry, demonstrating practical understanding. 	<ul style="list-style-type: none"> a. Video/PowerPoint presentation b. Interactive Lecture on Contract Elements c. Group Discussion on Contract Terms c. Integration Project d. Activity 7.1 Role-Playing Exercise 	<ul style="list-style-type: none"> a. Quiz b. participation c. Group Report d. Component Identification Quiz e. Contract Drafting Submission 	abcdefg
8	<p>Ethics in Electronics</p> <ul style="list-style-type: none"> a. Ethical considerations in the electronics profession. 	<p>At the end of the week, the students can:</p> <ul style="list-style-type: none"> a. Identify and explain key ethical principles relevant to the field of electronics, such as honesty, integrity, and respect for intellectual property. b. Analyze common ethical dilemmas faced by professionals in the electronics industry and propose solutions. c. Evaluate the importance of professional codes of ethics in guiding behavior in the electronics field. d. Apply ethical decision-making frameworks to real-life situations in the electronics industry. 	<ul style="list-style-type: none"> a. Video/PowerPoint presentation b. Interactive Lecture on Ethics c. Group Discussion on Codes of Ethics d. Activity 7.1 Case Study depicting ethical dilemmas in electronics. 	<ul style="list-style-type: none"> a. Quiz b. participation c. activity outputs e. Dilemma Analysis Report f. Code Evaluation Assignment 	abcdefg
9	<p>Obligations and Contracts</p> <ul style="list-style-type: none"> a. Basic Concepts of Obligations b. Key Elements of Contracts 	<p>At the end of the week, the students can:</p> <ul style="list-style-type: none"> a. Define and explain the fundamental concepts of obligations in contract law, including types and sources of obligations. b. Identify and explain the essential elements of a valid contract, such as offer, acceptance, consideration, and mutual consent. c. Analyze the rights and duties of parties involved in a contract and the consequences of breach. 	<ul style="list-style-type: none"> a. Video/PowerPoint presentation b. Interactive Lecture on Obligations c. Workshop on Remedies d. Activity 9.1 Case studies of contracts that illustrate rights, duties, and breaches 	<ul style="list-style-type: none"> a. Concepts Quiz b. participation c. Activity outputs d. Remedy Analysis Assignment e. Case Study Report 	abcdefg

10	Safety Standards a. Basic Safety procedures in high-risk activities and industries b. Value-Based Safety and Off-the-Job Safety c. Disaster Prevention and Mitigation d. Incident Investigation and Reporting	At the end of the week, the students can: a. Identify and explain basic safety procedures relevant to high-risk activities and industries, such as construction, manufacturing, and electrical work. b. Discuss the importance of value-based safety and the relevance of off-the-job safety practices in reducing accidents. c. Apply safety standards and procedures to real-world scenarios, demonstrating practical understanding and problem-solving skills.	a. Video/PowerPoint presentation b. Interactive Lecture on Safety Procedures c. Research Project on Disaster Strategies c. Workshop on Incident Investigation d. Activity 10.1 Safety Standards Simulation Exercise	a. Safety Procedures Quiz b. participation c. Disaster Strategy Presentation d. Incident Investigation Report e. Simulation Reflection Report	abcdefg
11	FINAL EXAMINATION				

Total No. of Hours : 54

8 COURSE REQUIREMENTS AND COURSE POLICIES

Each student is required to:

1. submit accomplished assignments, and activities;
2. make a PowerPoint presentation, and a written summary of the assigned report;
3. participate actively in all discussion;
4. discuss an assigned topic to report and participate in class discussions; and
5. pass the major exams (midterm and final)

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

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

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

Use of Technology: Cell phones should be turned off while the session is in progress. Using laptops, notebook PCs, smart phones, and tablets shall be allowed only when needed. A scientific calculator (e.g. Casio fx-991ES) shall be utilized in solving.

9 GRADING SYSTEM AND RUBRICS FOR GRADING

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GRADING SYSTEM

Midterm Grade	
Midterm Examination	50%
Attendance/ Class Participation	5%
Quizzes	5%
Recitation	5%
Activity	20%
Report	15%
TOTAL	100%

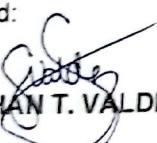
Final Term Grade		FINAL	
GRADE			
Final Term Examination	50%	Midterm Grade	50%
Attendance/Class Participation	5%	Final Term Grade	50%
Quizzes	5%	TOTAL	100%
Recitation	5%		
Activity	20%		
Report	15%		
TOTAL	100%		

Materials used: Laptop, PowerPoint presentations, and video clips
Books, Magazines, Online slides, Teacher-made slides

References:

Philippine Republic Act No. 9292, "Electronics Engineering Law."
E. S. Reyes, "Legal Aspects of Engineering," Rex Bookstore, 2016.
A. M. Santos, "Professional Ethics in Engineering,"

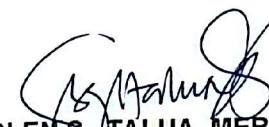
Prepared:



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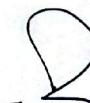
Reviewed:



GLEN S. TALUA, MERE
BINDTECH Program Chairman

2025 -08- 11

Noted:



8-11-25

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