



Republic of the Philippines
SULTAN KUDARAT STATE UNIVERSITY
Isulan, Sultan Kudarat
College of Industrial Technology
2nd Sem S.Y.2023-2024



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 field of study. It shall undertake research and extension services, and provide progressive leadership in its area of specialization.

UNIVERISTY GOAL

To produce graduates with excellence and dignity in arts, science and technology.

UNIVERSITY OBJECTIVES

- a. Enhance competency development, commitment, professionalism, unity and true spirit of service for public accountability, transparency and delivery of quality services;
- b. Provide relevant program and professional trainings that will respond to the development needs of the region;
- c. Strengthen local and international collaborations and partnerships for borderless program;
- d. Develop a research culture among faculty and student;
- 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 Objectives and its relationship to University Objectives:

PROGRAM OBJECTIVES (PO)	OBJECTIVES						
	a	b	c	d	e	f	g
A graduate of Industrial Technology can:							
a. Assume professional, technical, managerial and leadership roles in industrial organizations with the desired competence in the fields of practice such as Automotive, Architectural drafting, Civil, Electrical, Electronics, Food and its allied discipline	/	/					
b. Innovate explicit and modern technologies in the advancement of economy, society, technology and environmental sustainability	/	/	/		/	/	/
c. Generate research based information and technologies at par from international standards; and	/	/	/	/	/	/	
d. Promote and transfer knowledge and technologies for effective and efficient school-industry partnership.	/	/	/		/	/	/

1. Course Code : ET 122

2. Course Title : PHILIPPINE ELECTRICAL CODE

3. Prerequisite : ET 111

4. Credits : 3 UNITS

5. Course Description:

This subject deals with the fundamental knowledge of the existing provisions in the Philippine Electrical Code particularly the minimum standard requirements of residential and commercial wiring system standards and electric motor applications as governed by the Philippine Electrical Code (PEC)

6. Course Learning Outcomes and Relationships to Program Objectives

Course Learning Outcomes	Program Objectives			
Upon successful completion of this course, student will be able to:	a	b	c	d
1. Apply the principles of assessment in conceptualizing techniques for assessing authentic learning	/	/		
2. Design performance-based assessment tools	/		/	
3. Design assessment tools for effective learning	/	/	/	
4. Develop E-Portfolio to assess ones learning	/			/
5. Demonstrate skills preparing and reporting grades	/		/	
6. Derive information from alternative forms of assessments in making instructional decisions	/	/	/	/

7. Course Content

Course Objectives, Topics, Time Allotment	Desired Student Learning Outcomes	Outcomes-Based Assessment (OBA) Activities	Evidence of Outcomes	Course Learning Outcomes	Program Objectives	Values Integration
Topic: SKSU VMGO, Classroom Policies, Course Overview, Course Requirements, Grading System (2 Hours)						
1.1 Discuss the VMGO of the university, classroom policies, scope of the course, course requirements and grading system	1.1 Student can be aware of and appreciate pf the university VMGO, classroom policies, course overview, requirements and grading system.	Evaluation Checklist	Group and individual discussions	g	d	Participation
Topic : Importance of PEC in commercial wirings (10 Hours)						
2.1 Discuss the importance of PEC in commercial wirings	2.1 Understand the importance of PEC 2.2 Discuss the basic concept in understanding PEC	Rubrics for showcase Evaluation Checklist Quiz	Group and individual discussions	g	d	Participation Safety Conscious Time Management
Topic : Governing Rules of PEC (10 Hours)						
3.1 Governing Rules of PEC a. PEC Mandatory b. PEC Advisory provisions	3.1 Describe the policies/provisions of existing electrical code	Rubrics for showcase Evaluation Checklist Quiz	Group and individual discussions	g	d	Participation Safety Awareness Time Management
Topic : Approved types of materials to be used in wiring installation (10 Hours)						
4.1 Approved types of materials to be used in wiring installation	Familiarize the standard type, sizes of materials to be used in wiring installation	Rubrics for showcase Evaluation Checklist Quiz	Group and individual discussions	g	d	Participation Safety Awareness Time Management

							Commitment
Topic : Standard size of conductors and approved types of insulator in various locations (10 Hours)							
5.1 Standard size of conductors and approved types of insulator in various locations	5.1 Describe the standard sizes length of conductors and approved types of insulators in various locations	Rubrics for showcase Evaluation Checklist Quiz	Group and individual discussions	g	d	Participation Safety Awareness Time Management Commitment	
Topic: Wiring Methods and Application (Electrical Equipment for Hazardous Locations/area) (9 Hours)							
6.1 Wiring methods and applications (Electrical Equipment for Hazardous Location/area)	6.1 Familiarize wiring methods and approved types of materials	Rubrics for showcase Evaluation Checklist Quiz	Group and individual discussions	g	d	Participation Safety Awareness Time Management Commitment	
Lecture	= 51 Hours						
Laboratory	= 0						
Examination	= 3 Hours						
Total No. of Hours	= 54 hours						

8. Course Requirements

Quizzes

Written Examination (Midterm and Final)

Reporting/Oral/activities/Conferences

Portfolio

Attendance

9. Course Evaluation

Grading System:

MIDTERM

Exam	- 30%
Course Requirement	- 40%
Attendance	- 5%
Quizzes	- 15%
Participation	- 10%

FINAL TERM

Exam	- 30%
Course Requirement	- 40%
Attendance	- 5%
Quizzes	- 15%
Participation	- 10%

$$\text{MTG+FTG}/2=\text{FG}$$

Schedule of Examination:

Midterm	-
Final	-
Classes End	-

References:

Textbooks:

Philippine Electrical Code 2017
National Electrical Code Handbook 12th Edition by MW Early, JS Sargent, CD Coache, RJ Roax

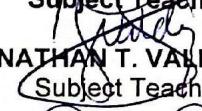
Supplemental:

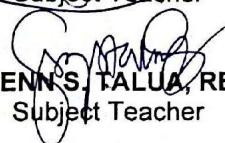
Interpreting National Electrical Code 8th Edition
American Electricians Handbook 15th Edition, Croft, et al

Electrical Safety Code Manual by Kimberly Keller
Industrial Motor Control by Hernan, S.L. 1995
Question and Answer for Electrician Examination by Edwin P. Anderson
Electric Motor Repair by Rosenberg and Hand
Electric Motor Repair by Rosenberg R.
Internet

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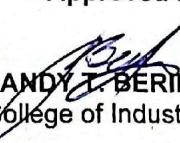

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