



SSCT

"For Nation's Greater Heights"

1.6.1. symposia, seminars,
workshops, professional
lectures;



In collaboration with



Electrical Safety Awareness Month

presents

ELECTRICAL SAFETY SEMINAR

Kuryente ay pag-ingatan, instalasyon ay alagaan,
upang sakuna ay maiwasan, kaligtasan ay makamtan.



SEC AMPHITHEATER
Km2 National Highway, Surigao City

Thursday | May 26, 2022
2:00PM to 4:00PM

In partnership with



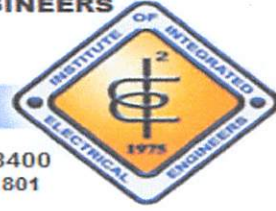
Hosted by:
IIEE Surigao del Norte Chapter





INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERS
OF THE PHILIPPINES, INC.
(SURIGAO CITY CHAPTER)

PRC Cert. No. I-APO-02



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JESSIE DARRYL EVIOTA
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May 25, 2022

TO: **DR. GREGORIO Z. GAMBOA, JR**
College President III
Surigao State College of Technology
Narciso St., Surigao City

SUBJECT: **LETTER REQUEST FOR INVITATION**

Every May of the year is declared as *Electrical Safety Month* thru Presidential Proclamation No. 193 last 2011 by then President Benigno S. Aquino III to increase public awareness on electrical safety and educate the people on the use of electrical appliance and gadgets, and those similar arrangement which requires the use of electricity.

We, the members and officers of IIEE-Surigao del Norte Chapters in partnership with industry in the field of Academe will be conducting electrical safety awareness seminar to selected school in Surigao City. Thru this mandate, we obliged ourselves for the safe and harmonious community and society.

In line with this, the chapter would like to invite **ENGR. CONDARO DELOSA JR** and interested electrical engineering students to attend the seminar on electrical safety awareness on May 26, 2022 from 2:00 – 4:00 in the afternoon @ Surigao Education Center Amphitheater.

Sincerely,

ENGR. ALEX A. DIAZ
President, IIEE-Surigao del Norte Chapter



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COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

City Campus

First Semester, Academic Year 2021-2022

Outcomes Based-Education (OBE) Syllabus in EE 484 Fieldtrips and Seminar

Course Credit: 1.0 unit (22 hrs)

Institutional Vision, Mission, and Goals

Vision:

An innovative and technologically-advanced State College in Caraga.

Mission:

To provide relevant,

- a. high quality and sustainable instruction,
- b. research, production and extension programs and
- c. services within a culture of credible and responsive institutional governance.

Goals:

1. Foster application of the discipline and provide its learner with industry-based training and education particularly in engineering, technology and fisheries.
2. Conduct and utilize studies for the development of new products, systems and services relevant to Philippine life and of the global village.
3. Promote transfer of technology and spread useful technical skills, thus empowering its learners and their activities.

SSCT Core Values

Service-Oriented Socially Responsive Committed Transformational

SSCT Quality Policy

Surigao State College of Technology provides quality instruction, research, extension programs and production services to satisfy its customers by responding to their needs and expectations and continually improving its quality management system.

Institutional Graduate Attributes (IGA)

- Visionary Leader
- Effective Communicator
- Competent Technologist
- Self-Directed Lifelong Learner

Program Goals

The *Electrical Engineering* program aims to design and apply the generation, transmission, and distribution of electrical energy to produce competent engineers that exhibit positive work ethics and flexibility in work conditions for nations greater heights.

Program Educational Objectives (PEO) and Relationship to Institutional Mission

Program Educational Objectives (PEO)	Mission		
	a	b	c
EE-PEO1. Demonstrate professionalism in electrical engineering and apply professional ethics thru communication and collaboration.	/	/	/
EE-PEO2. Use appropriate techniques, resources, and modern tools necessary for analysis, design, and modelling of complex electrical systems	/	/	/
EE-PEO3. Plan, lead, and implement designated tasks, interact with other engineering professionals, and take leadership roles in electrical engineering organization	/	/	/
EE-PEO4. Engage in lifelong learning able to discover new opportunities for continuing personal and professional development in electrical engineering	/	/	/

Program Outcomes (PO) and Relationship to Program Educational Objectives (PEO)

Program Outcomes (PO)	Program Educational Objectives (PEO)			
	1	2	3	4
POa. Apply knowledge of mathematics and science to solve engineering problems				
POb. Design and conduct experiments, as well as to analyse and interpret				
POc. Design a system, component, or process to meet desired needs in realistic constraints such as economic, environmental, social, political,	/	/	/	/



ethical, health and safety, manufacturability, and sustainability, in accordance with standards				
<i>EE-POd.</i> Function on multidisciplinary teams				
<i>EE-POe.</i> Identify, formulate, and solve engineering problems				
<i>EE-POf.</i> Apply professional and ethical responsibility				
<i>EE-POg.</i> Communicate effectively				
<i>EE-POh.</i> Identify the impact of engineering solutions in a global, economic, environmental, and societal context	/	/	/	/
<i>EE-POi.</i> Recognition of the need for, and an ability to engage in life-long learning				
<i>EE-POj.</i> Apply knowledge of contemporary issues				
<i>EE-POk.</i> Use techniques, skills, and modern engineering tools necessary for engineering practice				
<i>EE-POl.</i> Apply knowledge of engineering and management principles as a member and leader in a team, to manage projects and in multidisciplinary environments	/	/	/	/
<i>EE-POm.</i> Understand at least one specialized field of electrical engineering practice				

Course Description

This is the field trip and seminar course which will observe and verify the fundamentals of electrical engineering in the design of an electrical system and operations. It includes the synthesis of processes, analysis of process conditions and the analytic, heuristic and optimum design of equipment and processes. Economic analysis is included to estimate the cost of equipment, capital investment, total product cost and profitability.

DACUM Main Duties (DMD)

- EE-DMD1. Design, review, and redesign schematic diagrams, plan layout, and execution plan
- EE-DMD2. Approve the system operation as per approved project specification
- EE-DMD3. Oversee project implementation
- EE-DMD4. Site survey
- EE-DMD5. Coordinate with team members



Republic of the Philippines
SURIGAO STATE COLLEGE OF TECHNOLOGY
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<http://www.ssct.edu.ph>

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**Course Outcomes (CO) and Relationship to
Program Outcomes (PO)**



Program Outcome (PO) / Level	Course Outcomes (CO)	Assessment Task (CO-AT)	DACUM Links			
			1	2	3	4
EE-POc <i>Demonstrating</i> Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability, in accordance with standards;	<i>EE484-CO1:</i> Design an electrical system in accordance to environmental, safety standards and economic feasibility.	Students will observe the design an electrical system in their seminar and trips. This is a group observation were they will analyze, design, develop, implement, and evaluate the electrical system project. Criteria – Environmental, safety standards, economic feasibility Total: 80 points	/			/
EE-POh <i>Demonstrating</i> Identify the impact of engineering solutions in a global, economic, environmental, and societal context;	<i>EE484-CO2:</i> Identify societal problems that needs electrical engineering solution.	Students do a societal scanning of real-world problems that needs engineering solution. This is an individual or group observation were the student will propose a solution using electrical engineering technology. Criteria – Realistic problem, Innovation, Technology Total: 80 points			/	
EE-POI <i>Demonstrating</i>	<i>EE484 -CO3:</i> Apply engineering management in working with the solution of the identified problem by the designated leader or by the member of the team.	Students do a redesign plan for the observe problem. This is a group project were the		/		

<p>Apply knowledge of engineering and management principles as a member and leader in a team, to manage projects and in multidisciplinary environments;</p>		<p>student will apply engineering economy and technological solution for the feasible solution of the problem being identified.</p> <p>Criteria – Financial Plan, Return of Investment, Break-even analysis</p> <p>Total: 80 points</p>					
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Course Outcomes (CO) and Relationship to Intended Learning Outcomes (ILO)



Course Outcomes (CO)	Intended Learning Outcomes (ILO)
EE 484 - CO1: Design an electrical system in accordance to environmental and safety standards	<p>EE484 -ILO4: Design system models and simulations of systems operation. (EE422-CO1)</p> <p>EE484 -ILO5: Design the evaluation process of the developed system. (EE422-CO1)</p> <p>EE484 - ILO7: Design the research journal for presentation in research conference. (EE422-CO1)</p>
EE 484 -CO2: Identify societal problems that needs cretical engineering solution.	EE484 -ILO1: Identify real-world problems. (EE484 -CO2)
EE 484-CO3: Apply engineering management inworking capstone project as a leader or a member in a team.	<p>EE484-ILO2: Apply project development process in seminar and field trips project. (EE484 - CO3)</p> <p>EE484-ILO3: Apply project management in implementation of capstone project. (EE484-CO3)</p>

Detailed Course Content

Intended Learning Outcomes (ILO)	Topics	Time Frame	Teaching and Learning Activities (TLA)	Assessment Tasks (ILO-AT)	Target	Resources	Values Integration	Remarks						
EE484 - ILO1: Identify real-world problems. (EE484-CO2)	<p>1. SCANNING OF REAL-WORLD PROBLEMS</p> <p>1.1 <i>Selecting Seminar Agenda and Plant Trips</i></p> <p>1.2 <i>Choosing the Particular Company to visit and conduct a Study</i></p>	7.0 hrs	<p>Paired critiquing on seminar presentation on the topic selected.</p> <p style="text-align: center;"><i>Synchronous</i></p> <p>Learning Module 1</p> <p style="text-align: center;"><i>Asynchronous</i></p>	<p>Identification quiz on researchable real-world problems for the visited company and seminar project presentation.</p>	70% of the students shall have a rating of at least 3.0	Video clip on real-world problems	<p>Core Value: <i>Committed</i></p> <p>Sub-Value: <i>Persistent identification of real-world problems</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #d9ead3;">Document Code No.</td> <td>FM-SS</td> </tr> <tr> <td style="background-color: #d9ead3;">Revisor No.</td> <td>00</td> </tr> <tr> <td style="background-color: #d9ead3;">Effective Date</td> <td>20 Septe</td> </tr> </table>	Document Code No.	FM-SS	Revisor No.	00	Effective Date	20 Septe
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<i>EE484 - ILO2: Apply project development process in seminars and trips. (EE484-CO3)</i>	2. ENGINEERING PROJECT DEVELOPMENT <i>2.1 Problem Analysis</i> <i>2.2 System Design and Development</i> <i>2.3 Project Implementation</i> <i>2.4 System Evaluation</i>	7.0 hrs	Video viewing in you tube in engineering project development <i>Synchronous</i> Learning Module 2 <i>Asynchronous</i>	Graded oral presentation .	70% of the students shall have a rating of at least 3.0	Website in seminar project presentation.	Core Value: <i>Transformational</i> Sub-Value: <i>Adaptive seminar development</i>	
<i>EE484 - ILO3: Apply project management in implementation of seminar project and fieldtrips (EE422-CO3)</i>	3. PROJECT MANAGEMENT <i>3.1 Project Initiation</i> <i>3.2 Project Planning</i> <i>3.3 Project Execution</i> <i>3.4 Project Monitoring and Controlling</i> <i>3.5 Project Closing</i>	8.0 hrs	Video viewing in you tube in project management <i>Synchronous</i> Learning Module 3 <i>Asynchronous</i>	Q & A about project management	70% of the students shall have a rating of at least 3.0	Website in project seminar presentation	Core Value: <i>Service oriented</i> Sub-Value: <i>Commitment in seminar project</i>	



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EE484-ILO4: Design seminar models and trip simulations of system operation. (EE484- CO1)	4. SYSTEM MODELLING 4.1 Seminar Modelling 4.2 Field trip Simulation	7.0 hrs	Perform a seminar modelling and trip simulations of operation <i>Synchronous</i> Learning Module 4 <i>Asynchronous</i>	Graded project presentation in seminar modelling for field trip project	70% of the students shall have a rating of at least 3.0	Video clip in seminar modelling and trip simulation	Core Value: <i>Transformational</i> Sub-Value: <i>Optimistic seminar modelling</i>	
PROPOSE PROJECT PRESENTATION – 1.0 Hr.								
EE484 - ILO5: Design evaluation process in seminar developed system.(EE484 - CO1)	5. SYSTEM PERFORMANCE EVALUATION 5.1 Technical Standards 5.2 Environmental Issues 5.3 Health and Safety 5.4 Ethics	7.0 hrs	Design an evaluation process of a developed seminar system <i>Synchronous</i> Learning Module 5 <i>Asynchronous</i>	Graded project presentation in system performance evaluation related to capstone project	70% of the students shall have a rating of at least 3.0	Website in system performance evaluation	Core Value: <i>Socially responsive</i> Sub-Value: <i>Accountability in performance evaluation</i>	
EE484 - ILO6: Apply engineering economy profitability of the seminar and field trip project. (EE484 - CO3)	6. ENGINEERING ECONOMY IN PROJECT PROFITABILITY 6.1 Project Costing 6.2 Break-Even Analysis 6.3 Return of Investment	7.0 hrs	Exhibitions in economic feasibility of the seminar and field trip project <i>Synchronous</i> Learning Module 6 <i>Asynchronous</i>	Q & A about the application of engineering economy in seminar and field trip project	70% of the students shall have a rating of at least 3.0	Website in engineering economy	Core Value: <i>Socially responsive</i> Sub-Value: <i>Empathy in seminar and field trip profitability</i>	
EE484 - ILO7: Design seminar research journal for presentation in research conference. (EE484-CO1)	7. ENGINEERING RESEARCH JOURNAL 7.1 IEEE Citation 7.2 IEEE Research Journal	9.0 hrs	Participate in crafting the seminar and field trip project research journal <i>Synchronous</i> Learning Module 7	Graded project presentation in research journal for capstone project	70% of the students shall have a rating of at least 3.0	Website in IEEE research journal	Core Value: <i>Committed</i> Sub-Value: <i>Integrity in writing research</i>	



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			Asynchronous				journal	
SEMINAR AND FIELD TRIP PROPOSAL PRESENTATION – 1.0 Hr								

References:

Books

Bermudo, P. et. al (2010). *Research Writing Made Simple: A Modular Approach for Collegiate and Graduate Students.* Mindshapers Co., Inc. Philippines
 Narayan, R. (2014). *Research Methodology and Techniques in Computers.* Centrum Press. New Delhi.

Webpage

Sacred Heart University Library (undated). *Research Design.* Retrieved from: <https://library.sacredheart.edu/c.php?g=29803 &p=185902>
 D. Bromley. *System Evaluation.* Retrieve from: <https://www.modustrading.com/WhatIsSystemEvaluation.html#:~:text=System%20evaluation%20is%20the%20process,Parameter%20selection.>
 D. Resnik. *What is Ethics in Research & Why is it Important.* Retrieve from: <https://www.niehs.nih.gov/>
 Chron. *Product Cost.* Retrieve from: <https://smallbusiness.chron.com/product-costing-vs-cost-accounting-37642.html#:~:text=Product%20costing%20is%20the%20accounting, costs%20and%20retail%20stocking%20fees.>
Return of Investment . Retrieve from: <https://www.investopedia.com/terms/r/returnoninvestment.asp>
 Investopedia. *Break-even Point.* Retrieve from: <https://www.investopedia.com/terms/b/breakevenanalysis.asp>
 M. Kerr. *How to write a Market Analysis.* Retrieve from: <https://articles.bplans.com/how-to-write-a-market-analysis/>
 Wikipedia. *Gantt Chart.* Retrieve from: https://en.wikipedia.org/wiki/Gantt_chart
 Editage Insights. *Effective Table and Figure Presentation.* Retrieve from: <https://www.editage.com/insights/tips-on-effective-use-of-tables-and-figures-in-research-papers?refer=scroll-to-1-article&refer-type=article>
 Enago Academy. *Table and Figure Presentation.* Retrieve from: <https://www.enago.com/academy/how-to-use-tables-and-figures-to-effectively-organize-data-in-research-papers/>
 University of Victorias. *What is a Journal.* Retrieve from: <https://www.uvic.ca/library/research/tips/journal/index.php>
 IEEE Research Journal Format. Retrieve from: https://www.coep.org.in/page_assets/491/IEEE_Template_4.pdf
 MeaseyLabs. *Making a presentation from your research proposal.* Retrieve from: <http://john.measey.com/Blog/2018/03/18/Making-a-presentation-from-your-research-proposal>
 Podiobox. *15 Minute Presentation Guide.* Retrieve from: <https://www.podiobox.com/blog/post/15-minute-presentation-quick-guide>
 Business Insider. *7 brilliant ways to start any presentation.* Retrieve from: <https://www.businessinsider.com/smart-ways-to-start-a-presentation-2016-6#-7>
 Inomics. *Dress Code for Economic Conferences: What to Wear and What to Avoid.* Retrieve from: <https://inomics.com/advice/dress-code-for-economic-conferences-what-to-wear-and-what-to-avoid-48004#:~:text=Smart%20is%20better%20than%20casual&text=For%20women%2C%20skirts%20and%20dresses,dress%20up%20a%20plain%20outfit.>
 Brock University. *How to Create a Research Poster.* Retrieve from: <https://researchguides.library.brocku.ca/poster>



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Course Requirements:

- Design of an electrical system (CO-AT1)
- Researchable scanning of real-world problems (CO-AT2)
- Business plan of SEMINAR AND FIELD TRIP project (CO-AT3)
- Seminar and Field Trip Journal
- Propose Seminar and Fieldtrip Presentation
- Seminar Project and Fieldtrip Proposal Presentation

Course Evaluation:

<u>Criteria</u>	<u>Lecture Grade</u>
➤ Quizzes and online outputs/interaction (ILO-AT)	25%
➤ Performance Tasks (CO-AT)	35%
➤ Project Proposal (Midterm and Final)	40%
TOTAL	100%

Grade Computation:
$$\frac{\text{Midterm Grade} + \text{Final Grade}}{2} = \text{Average Grade}$$

Grade Point	Description
1.0	Excellent
1.5 – 1.1	Very Good
2.0 – 1.6	Highly Satisfactory
2.5 – 2.1	Good
2.9 – 2.6	Satisfactory
3.0	Passing
5.0	Failed due to poor performance, absences, withdrawal without notice
DRP	Dropped with approved dropping slip
INC	Incomplete requirements but w/ passing class standing. INC is for non-graduating students only
NG	No Grade

Source: SSCT Student Handbook



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Course Policies:

1. Attendance shall be checked in every class session in the Google Meet. This is to monitor the absences incurred by the students in terms of the allowable number of absences for a course as stipulated in the Student Handbook.
2. During online classes, video camera shall be turned on all the time and microphone shall be turned off. The microphone shall be unmuted only if the student's name is called to participate in class discussion.
3. Major examinations in multiple-choice type shall be done online. For problem solving type, detailed solutions shall be written legibly in separate sheets of paper and shall be converted to pdf form prior to submission.
4. Cheating in major examinations which includes attempts to defraud, deceive, or mislead the instructor in arriving at an honest assessment shall entail zero score.
5. Plagiarism which is a form of cheating that involves presenting the ideas or work of another as one's own work shall entail zero score.
6. Projects shall be submitted on or before the deadline. Students who submit unsatisfactory projects shall be given the chance to improve their works on the condition that they resubmit the revised outputs on the date set by the instructor. Non-submission of a project on the deadline shall entail zero score.
7. An INC grade shall be given to students who fail to submit the course requirements of at least 95% of the projects and quizzes or failure to take the major examinations.

Revision History:

Revision No.	Revised by	Date of Revision	Date of Implementation	Highlight of Revision
1	Engr Vicente Z. Delante	August 2021	September 2021	Followed OBTL Format as per CMO #101 S. 2017 DACUM Workshop vis-à-vis CMO No. 101 S. 2017

Prepared by:

Checked and reviewed by:

ENGR. Vicente Z. Delante
 Asst. Prof. 111

Date: _____

ENGR. Vicente Z. Delante
 Program Chair, BSEE

Date: _____



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Noted by:

ENGR. ROBERT R. BACARRO, MECE, MBA
Dean, CEIT

Date: _____

Recommended by:

RONITA E. TALINGTING, PhD
Campus Director

Date: _____

Approved by:

EMMYLOU A. BORJA, EdD
VP for Academic Affairs

Date: _____