



S.1.2 application of the theories to
real problems in the fields;

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING (BSEE)
CMO No. 87, S. of 2017
Effective A.Y 2020-2021

First Semester					
Course Code	Descriptive Title	Lec	Lab	Units	Pre-requisite
MATH 111	Calculus 1	5	0	5	None
ES 133	Computer-aided Drafting	0	2	2	None
GE Math	Mathematics in the Modern World	5	0	5	None
GE USelf	Understanding the Self	3	1	4	None
CHEM 121	Chemistry for Engineers	3	0	3	None
IC 102	Introduction to Electrical Engineering	3	0	3	None
PE 1	Physical Fitness & Health	2	0	2	None
NSTP 1	National Service Training Program 1	3	0	3	None
Sub- Total		24	3	27	

Second Semester					
Course Code	Descriptive Title	Lec	Lab	Units	Pre-requisite
Math 112	Calculus 2	5	0	5	Math 111
Phys 122	Physics for Engineers	3	1	4	Math 111; Co-requisite Math 112
GE Entrep	The Entrepreneurial Mind	3	0	3	None
GE IT	Living in the IT Era	3	0	3	None
CPE 143	Computer Programming	0	1	1	None
GE Rizal	Life and Works of Rizal	3	0	3	None
GE PurCom	Purposive Communication	3	0	3	None
PE 2	Rhythmic Activities	2	0	2	None
NSTP 2	National Service Training Program 2	3	0	3	NSTP 1
Sub- Total		27	1	27	

First Semester					
Course Code	Descriptive Title	Lec	Lab	Units	Pre-requisite
Math 113	Differential Equations	3	0	3	Math 112
EE 201	Electrical Circuits 1	3	1	4	Phys 122; Math 112
ES 255	Engineering Mechanics	3	0	3	Phys 122
Math 114	Engineering Data Analysis	3	0	3	Math 111
ES 302	Fluid Mechanics	2	0	2	Phys 122
GE ArtApp	Art Appreciation	3	0	3	None
GE EnviSci	Environmental Science	3	0	3	None
PE 3	PE 3	2	0	2	None
Sub- Total		22	1	23	

Second Semester					
Course Code	Descriptive Title	Lec	Lab	Units	Pre-requisite
Math 161	Engineering Mathematics for EE	3	0	3	Math 113
EE 202	Electrical Circuits 2	3	1	4	EE 201
EE 201	Electronic Circuits: Devices and Analysis	3	1	4	EE 201
ES 262	Basic Thermodynamics	2	0	2	Phys 122
ES 137	Engineering Economics	3	0	3	Math 114
ECE 252	Electromagnetics	4	0	4	Phys 122; Math 113
GE Eth	Ethics	3	0	3	None
PE 4	PE 4	2	0	2	None
Sub- Total		23	2	25	

First Semester					
Course Code	Descriptive Title	Lec	Lab	Units	Pre-requisite
EE 301	Numerical Methods and Analysis	2	1	3	Math 161
ECE 371	Logic Circuits and Switching Theory	3	1	4	ECE 201
ES 246	Environmental Science and Engineering	3	0	3	None
GE STS	Science, Technology and Society	3	0	3	None
EE 311	Industrial Electronics	3	1	4	ECE 201
EE 312	Fundamentals of Electronic Communications	3	0	3	ECE 201
EE 302	Electrical Machines 1	2	0	2	ECE 252; EE 202
ES 261	Fundamentals of Deformable Bodies	2	0	2	ES 255
Sub- Total		21	3	24	

Second Semester					
Course Code	Descriptive Title	Lec	Lab	Units	Pre-requisite
CpE 371	Microprocessor Systems	3	1	4	ECE 371
EE 304	Electrical Apparatus and Devices	2	1	3	EE 202
EE 303	Electrical Machines 2	3	1	4	EE 302
ES 301	Basic Occupational Safety and Health	3	0	3	3rd year standing
ES 138	Technopreneurship	3	0	3	4 th year standing
EE 305	EE Law, Codes, and Professional Ethics	2	0	2	GE Eth
ECE 357	Feedback and Control Systems	3	0	3	Math 161; ECE 201
GE ConWorld	Contemporary World	3	0	3	None
Sub- Total		22	3	25	

Summer					
Course Code	Descriptive Title	Lec	Lab	Units	Pre-requisite
Practicum	On-the-Job Training	3	240	2	4th Year Standing
Sub- Total		3	240	2	

Fourth Year First Semester					
Course Code	Descriptive Title	Lec	Lab	Units	Pre-requisite
ES 142	Materials Science and Engineering	3	0	3	CHEM 121; ES 261
EE 401	Electrical Standards and Practices	0	1	1	EE 305
EE 402	Electrical Systems and Illumination Engineering Design	3	2	5	EE 303
EE 481	Power Systems - Generation and Transmission	3	0	3	4 th year standing
EE 164	Management of Engineering Projects	2	0	2	ES 137
ES 140	Research Methods	0	1	1	Math 114; GE PurCom
EE 403	Instrumentation and Control	2	1	3	ECE 357
IC 105	EE REVIEW 1	2	0	2	4 th year standing
Sub- Total		15	5	20	

Second Semester					
Course Code	Descriptive Title	Lec	Lab	Units	Pre-requisite
EE 431	Power Systems Analysis	3	1	4	EE 401
EE 432	Fundamentals of Power Plant Engineering Design	0	1	1	Co-requisite: EE 431
EE 433	Distribution Systems and Substation Design	2	1	3	Co-requisite: EE 431
EE 482	Power Systems - Distribution System and Supply	3	0	3	EE 481
EE 422	Research Project or Capstone Design Project for EE	0	1	1	ES 142
ES 484	Seminars/Colloquia & Field Trips	0	1	1	4 th year standing
IC 106	EE REVIEW 2	2	0	2	4 th year standing
GE Hist	Readings in Philippine History	3	0	3	NONE
Sub- Total		13	5	18	
Grand Total		165	254	182	

Category	Units
I. Technical Courses	
A. Mathematics	16
B. Natural/Physical Sciences	8
C. Basic Engineering Sciences	11
D. Allied Courses	39
E. Professional Courses	52
F. Electives	6
Sub-Total	132
II. Non-Technical Courses	
A. GE Core Courses	24
B. Electives	9
C. Mandated Courses	3
D. Physical Education	8
E. NSTP	6
Sub-Total	50
III. Institutional Courses	
A. Introduction to Electrical Engineering	2
B. EE Review 1	2
C. EE Review 2	2
Sub-Total	6
Grand Total	185

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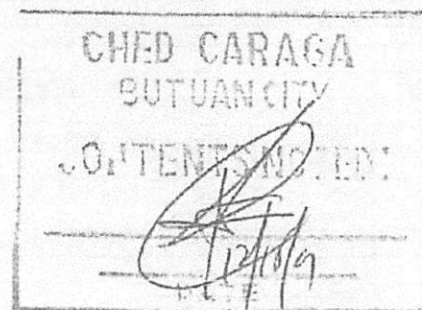
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COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY
City Campus
First Semester, Academic Year 2021-2022

**Outcomes Based-Education (OBE) Syllabus in EE 140
RESEARCH METHODS**

Course Credit: 1.0 unit Laboratory 3 hours/week (54 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.



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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 electronics 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)

Program Educational Objectives (PEO)

	Program Educational Objectives (PEO)			
	1	2	3	4
<i>EE-POa.</i> Apply knowledge of mathematics and science to solve engineering Problems				
<i>EE-POb.</i> Design and conduct experiments, as well as to analyse and interpret Data				
<i>EE-POc.</i> Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental political,	/	/	/	/

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



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

Course Description

This course covers the study of the methodologies used in conducting an engineering research. It includes the types and application of research, characteristics of good research, research design, research instrument and data gathering procedures. It also deals with study of writing a research proposals and various formats.

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



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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	5
EE-POb <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>EE140-CO1:</i> Design an electrical system in accordance to environmental, safety standards and economic feasibility.	Students design and propose electrical system as their propose project. This is a group projects which they will analyze, design, develop, implement, and evaluate the electrical project. Criteria – Environmental, safety standards, economic feasibility Total: 80 points	/			/	
EE-POc <i>Demonstrating</i> Identify the impact of engineering solutions in a global, economic, environmental, and societal context;	<i>EE140-CO2:</i> Identify societal problems that needs electronic engineering solution.	Students do a societal scanning of real-world problems that needs engineering solution. This is an individual project were the student will propose a solution using electronic engineering technology. Criteria – Realistic problem, Innovation, Technology Total: 80 points			/		
EE-POd <i>Demonstrating</i>	<i>EE140-CO3:</i> Apply engineering management in working with project proposal	Students do a business plan for the capstone project. This is a group project were the		/			/



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Apply knowledge of engineering and management principles as a member and leader in a team, to manage projects and in multidisciplinary environments;	project as a leader or a member in a team.	student will apply engineering economy and technopreneurship for the project feasibility in business incubation. Criteria – Financial Plan, Return of Investment, Break-even analysis Total: 80 points					
EE – Poi Recognition of the need for, and an ability to engage in life-long learning							

Course Outcomes (CO) and Relationship to Intended Learning Outcomes (ILO)

Course Outcomes (CO)	Intended Learning Outcomes (ILO)
EE140-CO1: Design an electrical system in accordance to environmental and safety standards	EE140-ILO4: Design system models and simulations of systems operation. (EE140-CO1) EE140-ILO5: Design the evaluation process of the developed system. (EE140-CO1) EE140-ILO7: Design the research journal for presentation in research conference. (EE140-CO1)
EE140-CO2: Identify societal problems that needs electronic engineering solution.	EE140-ILO1: Identify real-world problems. (EE140-CO2)
EE140 -CO3: Apply engineering management in working with capstone project as a leader or a member in a team.	EE140-ILO2: Apply project development process in capstone project. (ECE140-CO3) EE140-ILO3: Apply project management in implementation of capstone project. (EE140-CO3) EE140-ILO6: Apply engineering economy in the profitability of the project. (EE140-CO3)



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Detailed Course Content

Intended Learning Outcomes (ILO)	Topics	Time Frame	Teaching and Learning Activities (TLA)	Assessment Tasks (ILO-AT)	Target	Resources	Values Integration	Remarks
EE140-ILO1: Identify real-world problems. (EE140-CO2)	1. Nature and Characteristics of Research 1.1 Methodology of Conducting Research 1.2 Types of Research 1.3 Types of Research Application	7.0 hrs	Paired critiquing on real-world problems <i>Synchronous</i> Learning Module 1 <i>Asynchronous</i>	Identification quiz on researchable real-world problems for capstone project	70% of the students shall have a rating of at least 3.0	Video clip on real-world problems	Core Value: <i>Committed</i> Sub-Value: <i>Persistent identification of real-world problems</i>	
EE140-ILO2: Apply project development process in capstone project. (EE140-CO3)	2. Types of Research 2.1 Basic Research 2.2 Applied Research 2.3 Pure 2.4 Characteristics of Research	7.0 hrs	Video viewing in youtube in engineering project development <i>Synchronous</i> Learning Module 2 <i>Asynchronous</i>	Graded oral presentation in engineering project development	70% of the students shall have a rating of at least 3.0	Website in engineering project development	Core Value: <i>Transformational</i> Sub-Value: <i>Adaptive project development</i>	
EE140-ILO3: Apply project management in implementation of capstone project. (EE140-CO3)	3. Research Problems and Objectives 3.1 Purpose of Research 3.2 Developing Research Objectives	8.0 hrs	Video viewing in youtube 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 management	Core Value: <i>Service oriented</i> Sub-Value: <i>Commitment in project management</i>	



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<i>EE140-ILO4</i> : Design system models and simulations of systems operation. (EE140-CO1)	4. Review of Related Literature 4.1 <i>Conceptual Literature</i> 4.2 <i>Research Literature</i> 4.3 <i>Referencing</i>	7.0 hrs	Perform a system modelling and simulations of system operation <i>Synchronous</i> Learning Module 4 <i>Asynchronous</i>	Graded project presentation in system modelling for capstone project	70% of the students shall have a rating of at least 3.0	Video clip in system modelling	Core Value: <i>Transformational</i> Sub-Value: <i>Optimistic system modelling</i>	
PROPOSE PROJECT PRESENTATION – 1.0 Hr.								
<i>EE140-ILO5</i> : Design evaluation process of the developed system. (EE140-CO1)	<i>5.0 Research Design</i> 5.1 <i>Experimental Design</i> 5.2 <i>Descriptive</i>	7.0 hrs	Design an evaluation process of a developed 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>	
<i>EE140-ILO6</i> : Apply engineering economy profitability of the capstone project. (EE140-CO3)	6. Research Paradigm 6.1 <i>Dependent Variable</i> 6.2 <i>Independent Variable</i>	7.0 hrs	Exhibitions in economic feasibility of the capstone project <i>Synchronous</i> Learning Module 6 <i>Asynchronous</i>	Q & A about the application of engineering economy in capstone 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 project profitability</i>	
<i>EE140-ILO7</i> : Design the research journal for presentation in research conference. (EE140-CO1)	7.0 Data Processess and Statistical Treatment 7.1 <i>T-test</i> 7.2 <i>Z-test</i> 7.3 <i>Anova</i> 7.4 <i>Progression</i> 7.5 <i>Hypothesis testing</i>	9.0 hrs	Participate in crafting the capstone 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>	



	8.0 Writing Research Proposal 8.1 The Problem and Its Background 8.2 Review of Related Literature 8.3 Research Method and Procedure							
	9.0 Ethical Issues on Researcch							



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			Asynchronous				journal	
CAPSTONE PROPOSAL PRESENTATION – 1.0 Hr								

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Books

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Course Requirements:

- Design of an electronic system (CO-AT1)
- Researchable scanning of real-world problems (CO-AT2)
- Business plan of capstone project (CO-AT3)
- Research Journal
- Propose Project Presentation
- Capstone Project Proposal Defense

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)	<u>40%</u>
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:

- 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.
- 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.
- 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.
- Cheating in major examinations which includes attempts to defraud, deceive, or mislead the instructor in arriving at an honest assessment shall entail zero score.
- 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.
- 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.
- 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:

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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:

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 Asst. Prof. 111

Date: 8/16/21

Checked and reviewed by:

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Date: 8/16/21



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Noted by:


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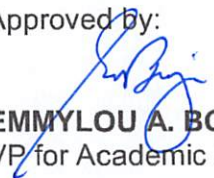
Date: 8-17-21

Recommended by:


RONITA E. TALINGTING, PhD
Campus Director

Date: 8-12-21

Approved by:


EMMYLOU A. BORJA, EdD
VP for Academic Affairs

Date: 8-13-2021

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