Surigao City Campus

Bachelor of Science in Electrical Engineering

SURIGAO STATE COLLEGE OF TECHNOLOGY

SSCT

"For Nation's Greater Heights"

S.3. The curriculum reflects local, regional, and national development goals as well as institution's vision and mission.

"For Nation's Greater Heights"

SURIGAO STATE COLLEGE OF TECHNOLOGY
Surigao City

Vision, Mission and Goals

Vision:

An innovative and technologically-advanced State College in Caraga.

Mission:

To provide relevant, high quality and sustainable instruction, research, production and extension programs and 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.*

"For Nation's Greater Heights"

SURIGAO STATE COLLEGE OF TECHNOLOGY
Surigao City

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Program Educational Objectives

PEO 1

- *Innovative and knowledgeable in the latest trends in electrical engineering and demonstrate in their jobs as professional the technical expertise and practical skills.*

PEO 2

- *Flexible in working with multidisciplinary teams, responsible for providing solutions in electrical engineering showing attributes of professionalism and critical thinking.*

PEO 3

- *Engage in lifelong learning and are taking leadership roles in electrical engineering organization that are valuable to the advancement of the society.*

10-POINT SOCIOECONOMIC AGENDA OF THE DUTERTE ADMINISTRATION

1. Continue and maintain current macroeconomic policies, including fiscal, monetary, and trade policies.
2. Institute progressive tax reform and more effective tax collection, indexing taxes to inflation.
   A tax reform package will be submitted to Congress by September 2016.
3. Increase competitiveness and the ease of doing business. This effort will draw upon successful models used to attract business t
local cities
   (e.g., Davao) and pursue the relaxation of the Constitutional restrictions on foreign ownership, except as regards land ownership,
   in order to attract foreign direct investment.
4. Accelerate annual infrastructure spending to account for 5% of GDP, with Public-Private Partnerships playing a key role.

6. Ensure security of land tenure to encourage investments, and address bottlenecks in land management and titling agencies.
7. Invest in human capital development, including health and education systems, and match skills and training to meet the demand of businesses and the private sector.
8. Promote science, technology, and the creative arts to enhance innovation and creative capacity towards self-sustaining, inclusive development.
9. Improve social protection programs, including the government's Conditional Cash Transfer program, to protect the poor against instability and economic shocks.
10. Strengthen implementation of the Responsible Parenthood and Reproductive Health Law to enable especially poor couples to make informed choices on financial and family planning.

As presented during the 'Sulong Hakbang Tungo sa Kaunlaran' consultative workshop held on June 20-21, 2016.

NT SOCIOECONOMIC AGENDA

and Order

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economic policies, including fiscal,
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ve tax collection, indexing taxes to
on.

se competitiveness and the ease of
business.

rate annual infrastructure spending to
t for 5% of GDP, with Public-Private
rships playing a key role.

te rural and value chain development
l increasing agricultural and rural
rise productivity and rural tourism.

security of land tenure to encourage
ments, and address bottlenecks in land
gement and titling agencies.

in human capital development,
ing health and education systems, and
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lity and economic shocks.

then implementation of the Responsible
hood and Reproductive Health Law
le especially poor couples to make
ed choices on financial and family
ng.

AmBisyon Natin 2040

"By 2040, the Philippines is a prosperous middle-class society where no one is poor. People live long and healthy lives and are smart and innovative. The country is a high-trust society where families thrive in vibrant, culturally diverse, and resilient communities."

On October 11, 2016, President Rodrigo Roa Duterte signed Executive Order No. 5, s. 2016 (EO 5) approving and adopting the national long-term vision or *AmBisyon Natin 2040* as a guide for development planning. EO 5 further states that all development plans until 2040 will be anchored on the long-term vision and that these will emphasize the centrality of the Filipino people and their aspirations in the planning, design, and implementation of government interventions for a *matatag, maginhawa, at panatag na buhay* para sa lahat (strongly-rooted, comfortable, and secure life for all).

NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY
12 St. Josemaria Escriva Drive, Ortigas Center
Pasig City, 1605 Philippines

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Website: www.neda.gov.ph
Facebook and Twitter: @NEDAbq

REPUBLIKA NG PILIPINAS

Philippine
Development P
2017-2022

PPINE DEVELOPMENT
7-2022

Natin 2040 into reality, it is necessary for each build on the gains of its predecessors to ensure nsistency of policies, projects, programs, and lso maintaining a certain amount of flexibility.

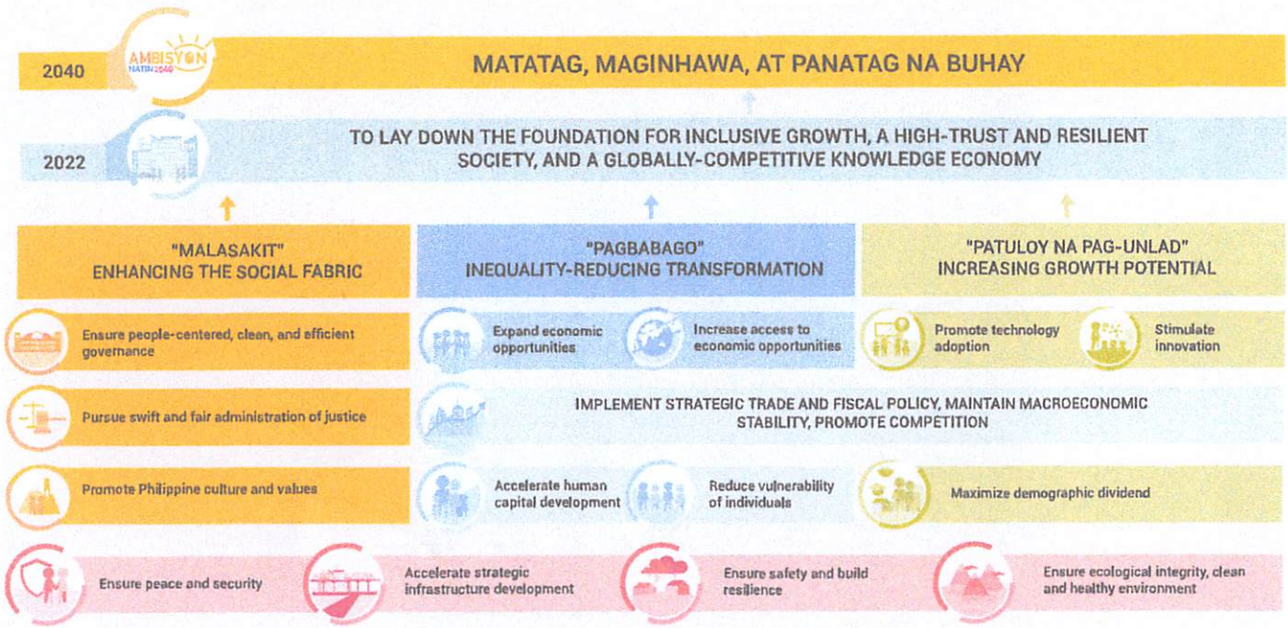
m-term plan to implement the *AmBisyon Natin* **ine Development Plan (PDP) 2017-2022** will oundation for a more inclusive growth, a high- a globally-competitive economy. It is guided by nistration's 0-10 Point Socioeconomic Agenda, ltations, and the social development summits the 20@22 Agenda: *Malasakit at Pagbabago*. It ount the country's international commitments, 30 Sustainable Development Goals.

VERALL FRAMEWORK

To contribute to the attainment of a "*matatag, maginhawa, at panatag na buhay para sa lahat,*" the PDP 2017-2022 contains strategies that fall under three pillars of "***Malasakit***" (enhancing the social fabric), "***Pagbabago***" (inequality-reducing transformation), and "***Patuloy na Pag-unlad***" (increasing growth potential of the economy). These are supported by cross-cutting strategies for national security, infrastructure development, socioeconomic resiliency, and ecological integrity, which provide a bedrock for all strategies to work.

PLAN TARGETS

- The Philippines will be an upper middle income country b
- Growth will be more inclusive as manifested by a low incidence in the rural areas, from 30 percent in 2015 to in 2022.
- The Philippines will have a high level of human developme
- The unemployment rate will decline from the current 5.5 3-5 percent in 2022.
- There will be greater trust in government and in society.
- Individuals and communities will be more resilient.
- Filipinos will have greater drive for innovation.



Supporting Stra

- Ensure a sound stable, and supp macroeconomi environment
- Level the playin through a Natio Competition Po

Bedrock Strateg

- Attain just and peace
- Ensure security, order, and safet
- Accelerate infrastructure development
- Ensure ecologic integrity, clean, healthy environ

KIT

ocial Fabric

gain peoples' trust in public institutions and fellow Filipinos. This entails making public n-centered, efficient, and clean. Administration swift and fair and Filipinos will have increased d will learn to value, the country's cultural ed heritage.

PAGBABAGO

Inequality-Reducing Transformation

By expanding economic opportunities and increasing access to these opportunities, particularly of economic groups that used to lag behind, growth will be felt on the ground. A key strategy is fostering linkages in agriculture and the industry and service sectors. This will be coupled with reducing vulnerability and ensuring resiliency of communities by strengthening social protection and prioritizing human capital development.

PATULOY NA PAG-UNLAD

Increasing Growth Potential of the Economy

It is imperative that economic growth is accelerate sustained. Major strategies include advancing to a kno economy and accelerating the full harvest of the demo dividend. Technology adoption will be promoted and inn encouraged. There will also be aggressive efforts to ensu families will be of the size that can be adequately cared for

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COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

CEIT VISION, MISSION AND GOALS

VISION

To be a center of excellence in engineering and information technology education.

MISSION

To provide relevant, quality and sustainable instruction, research and extension programs and services to produce responsible and globally competitive individuals in the fields of engineering and information technology.

ACADEMICS

- College of Engineering and Information Technology
- College of Teacher Education
- College of Technology
- College of Arts and Sciences
- Graduate Studies

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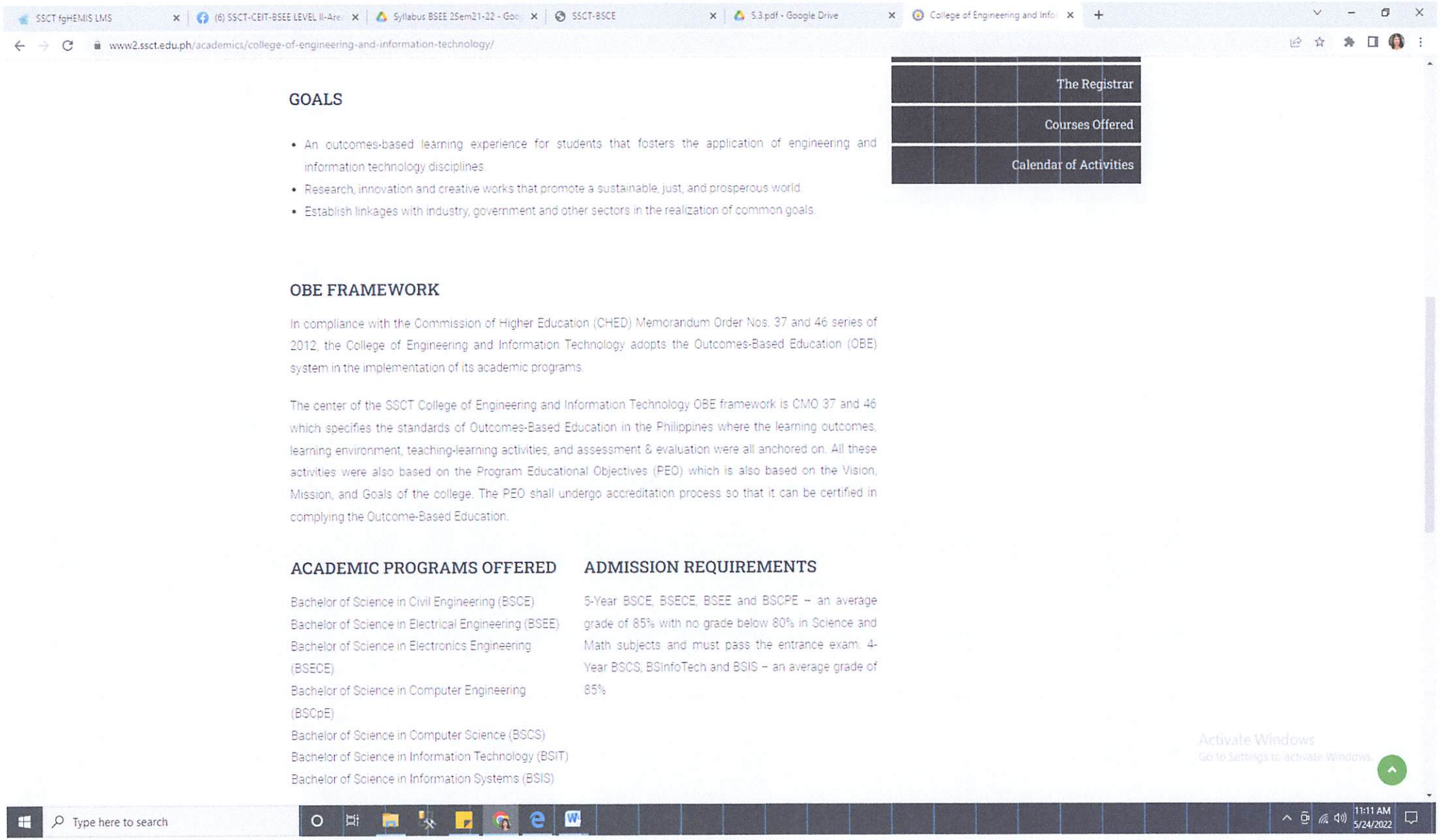
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The Registrar
Courses Offered
Calendar of Activities
GOALS
• An outcomes-based learning experience for students that fosters the application of engineering and information technology disciplines.
• Research, innovation and creative works that promote a sustainable, just, and prosperous world.
• Establish linkages with industry, government and other sectors in the realization of common goals.
OBE FRAMEWORK
In compliance with the Commission of Higher Education (CHED) Memorandum Order Nos. 37 and 46 series of 2012, the College of Engineering and Information Technology adopts the Outcomes-Based Education (OBE) system in the implementation of its academic programs.
The center of the SSCT College of Engineering and Information Technology OBE framework is CMO 37 and 46 which specifies the standards of Outcomes-Based Education in the Philippines where the learning outcomes, learning environment, teaching-learning activities, and assessment & evaluation were all anchored on. All these activities were also based on the Program Educational Objectives (PEO) which is also based on the Vision, Mission, and Goals of the college. The PEO shall undergo accreditation process so that it can be certified in complying the Outcome-Based Education.
ACADEMIC PROGRAMS OFFERED
Bachelor of Science in Civil Engineering (BSCE)
Bachelor of Science in Electrical Engineering (BSEE)
Bachelor of Science in Electronics Engineering (BSECE)
Bachelor of Science in Computer Engineering (BSCpE)
Bachelor of Science in Computer Science (BSCS)
Bachelor of Science in Information Technology (BSIT)
Bachelor of Science in Information Systems (BSIS)
ADMISSION REQUIREMENTS
5-Year BSCE, BSECE, BSEE and BSCPE – an average grade of 85% with no grade below 80% in Science and Math subjects and must pass the entrance exam. 4-Year BSCS, BSInfoTech and BSIS – an average grade of 85%
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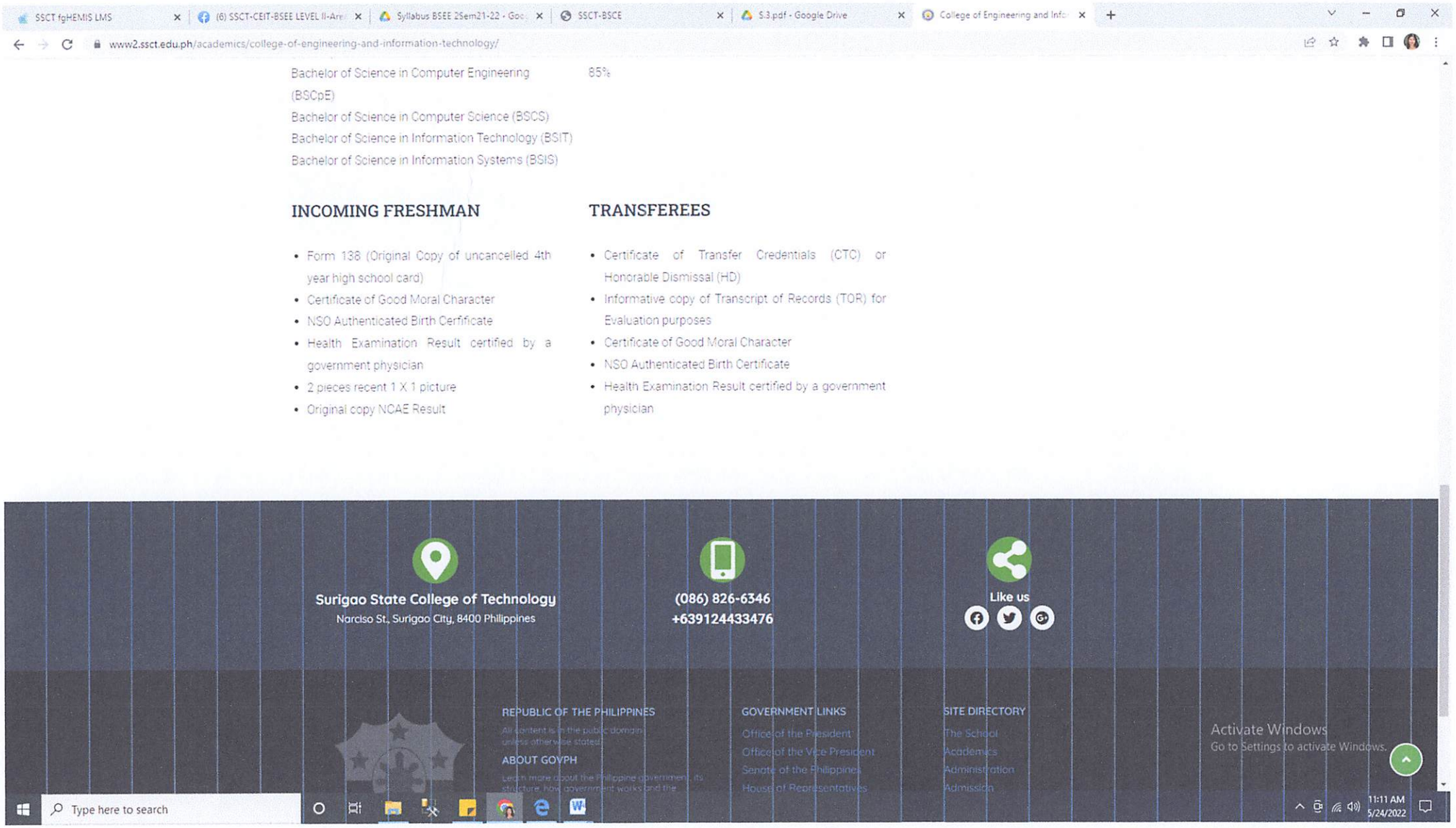
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Bachelor of Science in Computer Engineering (BSCpE) 85%
Bachelor of Science in Computer Science (BSCS)
Bachelor of Science in Information Technology (BSIT)
Bachelor of Science in Information Systems (BSIS)
INCOMING FRESHMAN
Form 138 (Original Copy of uncancelled 4th year high school card)
Certificate of Good Moral Character
NSO Authenticated Birth Cerfificate
Health Examination Result certified by a government physician
2 pieces recent 1 X 1 picture
Original copy NCAE Result
TRANSFEREES
Certificate of Transfer Credentials (CTC) or Honorable Dismissal (HD)
Informative copy of Transcript of Records (TOR) for Evaluation purposes
Certificate of Good Moral Character
NSO Authenticated Birth Certificate
Health Examination Result certified by a government physician
Surigao State College of Technology
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+639124433476
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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 121- Elective 3
Energy Supply and Demand Analysis
Course Credit: 3.0 units **(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.

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 the development of Caraga.

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 modeling 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
EE-POa. Apply knowledge of mathematics and sciences to solve complex engineering problems				
EE-POb. Develop and conduct appropriate experimentation, analyze and interpret data				
EE-POc. 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				
EE-POd. Function effectively on multi-disciplinary and multi-cultural teams that establish goals, plan tasks, and meet deadlines				
EE-POe. Identify, formulate, and solve complex problems in electrical engineering				
EE-POf. Recognize ethical and professional responsibilities in engineering practice	/	/	/	/
EE-POg. Communicate effectively with a range of audiences	/	/	/	/
EE-POh. Understand the impact of engineering solutions in a global, economic, environmental, and societal context				
EE-POi. Recognize the need for additional knowledge and engage in lifelong learning	/	/	/	/
EE-POj. Articulate and discuss the latest developments in the field of electrical engineering				
EE-POk. Apply techniques, skills, and modern engineering tools necessary for electrical engineering practice				
EE-POl. Demonstrate knowledge and understanding of engineering and management principles as a member and/or leader in a team to manage projects in multidisciplinary environments				

Course Description

The course covers nodal and mesh analysis; application of network theorems in circuit analysis; analysis of circuits with controlled sources and ideal op-amps; fundamentals of capacitors and inductors; analysis of dc-driven RL, RC, and RLC circuits; sinusoidal steady-state analysis of general RLC circuits.

DACUM Main Duties (DMD)

EE-DMD1. Diagnose electrical problems using the electrical diagrams or blue print (as built electrical plans)
EE-DMD2. Install, repair, and maintenance electrical power systems(building wiring, controls, electrical machines and transformers)
EE-DMD3. Facilities Manager
EE-DMD4. Power Plant Manager
EE-DMD5. Electrical Researchers, Professor and Faculty

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-POc. 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. *Enabling* EE-POf. Recognize ethical and professional responsibilities in engineering practice *Demonstrate* EE-POg. Communicate effectively with a range of audiences *Enabling* EE-POi. Recognize the need for additional knowledge and	EE 121 – CO1: The students are able to use the different theories and techniques in forecasting energy demand (EE-POf.) EE 121 – CO2: The students will be able to use logical thinking in analyzing energy demand data through forecasting (EE-POf., EE-POg.) EE 121 – CO3: The students as a team will be able to discuss and explain the concepts used in energy demand forecasting (EE-POi., EE-POf.)	*CO – AT1:* Students conduct oral report thru online in energy demands Criteria – Topic content, presentation Total Points: 100 points *CO – AT2:* Students create project design computing samples of energy demand Criteria – creativity, functionality, delivery *CO – AT3:* Students calculate problem sets on electrical energy supply and demand. Criteria – 70% correct answers and solutions Total Points: 100 points	/	/			/
				/	/	/		
			/	/	/	/	/	

engage in lifelong learning *Enabling*							

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

Course Outcomes (CO)	Intended Learning Outcomes (ILO)
EE 121 – CO1: The students are able to use the different theories and techniques in forecasting energy demand (EE-POf.) EE 121 – CO2: The students will be able to use logical thinking in analyzing energy demand data through forecasting (EE-POf., EE-POg.) EE 121 – CO3: The students as a team will be able to discuss and explain the concepts used in energy demand forecasting (EE-POi., EE-POf.)	

Detailed Course Content

Intended Learning Outcomes (ILO)	Topics	Time Frame	Teaching and Learning Activities (TLA)	Assessment Tasks (ILO-AT)	Target	Resources	Values Integration	Remarks
Express understanding of the Vision and Mission statements of SSCT, including its Goals and Objectives;	**ORIENTATION ON THE COURSE** **VMGO**	1 hr.	*Readings* on SSCT Student Handbook			SSCT Student Handbook Syllabus		

Analyze the syllabus by looking into the ILOs, Subject Matter, TLAs, Assessment Strategies, Values and References; and Design strategies that will help meet the requirements and obtain desired grades/marks for the course	**Syllabus** **Grading System**		Instructor will provide a course outline reflecting the VMGO, core values, IGA, program goals, course description, topics, course outcomes and requirements, grading system and course policies.			Criteria for the Grading System BOT Resolution No. 51, S. 2020	Core Value: *Service oriented* Sub-Value: *Diligent pursuit of VMGO*	
EE 121 – ILO1: Explain the importance of energy damand analysis in the power industry (EE 121 – CO3) EE 121 – ILO2: Connect the relationship of Forecasting and Planning (EE 121 – CO3) EE 121 – ILO3: Identify the importance of datas in forecasting (EE 121 – CO3) EE 121 – ILO4: Discuss and Explain different forecasting techniques (EE 121 – CO3)	**1. THE NEED TO ANALYZE ENERGY DEMAND** 1.1 What does the field of forecasting encompass? 1.2 Forecasting relationship to planning 1.3 Examples of different types of forecasting problems 1.4 Importance of up-to-date data 1.5 Collecting data of different kinds 1.6 Knowing the causes the thing I'm forecasting to change 1.7 Forecasting without quantitative (numerical) data	10hrs	Discussion via Google Meet *Synchronous* Learning Module 1 *Asynchronous*	Oral discussion/participation thru online	70% of the students shall have a rating of at least 3.0	Modules, e-books, textbooks, and worksheets	Core Value: *Committed* Sub-Value: *Determined in learning the energy demand analysis*	

EE 121 – ILO5: Apply basics of forecasting techniques (EE 121 – CO1) EE 121 – ILO6: Identify forecast time horizons and types (EE 121 – CO2) EE 121 – ILO7: Discuss and explain the steps of forecasting (EE 121 – CO3)	**2. INTRODUCTION TO FORECASTING** 2.1 Forecasting Time Horizons 2.2 Types of Forecast 2.3 Steps in Forecasting	6hrs	Discussion via Google Meet *Synchronous* Learning Module 2 *Asynchronous*	Identification terms on forcasting	Powerpoint presentation on time series analysis and control	Modules, e-books, textbooks, and worksheets	Core Value: *Committed* Sub-Value: *Determined in learning the forecasting types*	
EE 121 – ILO8:Discuss and Explain time series forecasting (EE 121 – CO3) EE 121 – ILO9: Identify the different components of time series forecasting (EE 121 – CO2) EE 121 – ILO10: Identify common seasonality patterns of time series forecasting (EE 121 – CO2) EE 121 – ILO11: Use the different time series forecasting approach in forecasting Energy	**3.TIME SERIES ANALYSIS AND CONTROL** 3.1 Components of Time Series 3.2Common Seasonality Patterns 3.3 Naïve Approach 3.4 Moving Average 3.5 Exponential Smoothing 3.6 Holt – Winters Method	8 hrs	Discussion via Google Meet and video viewing *Synchronous* Learning Module 3 *Asynchronous*	Oral discussion /presentation on time series analysis and control	70% of the students shall have a rating of at least 3.0	Powerpoint presentation on time series analysis and control	Core Value: *Committed* Sub-Value: *Determined in learning time series analysis and control*	

Demand(EE 121 – CO1)								
MIDTERM EXAMINATION – 2.0 Hrs.								
EE 121 – ILO12: Enumerate the different forecasting models and methods (EE 121 – CO2) EE 121 – ILO13: Discuss and explain the importance of common sense in forecasting (EE 121 – CO3) EE 121 – ILO14: Calculate forecasting errors (EE 121 – CO2) EE 121 – ILO15: Explain the importance of errors in forecasting (EE 121 – CO3) EE 121 – ILO16: Forecast energy demand data using the different time series forecasting techniques (EE 121 – CO1)	**4.0 FORECASTING APPROACHES** 4.1 Forecasting Models 4.2 Qualitative Methods 4.3 Quantitative Methods 4.4 Trend and Seasonality in Forecasting 4.5 Common Sense and Forecasting 4.6 Forecasting errors	4hrs	Discussion via Google Meet and video viewing *Synchronous* Learning Module 5 *Asynchronous*	Q & A about the forecasting approaches	70% of the students shall have a rating of at least 3.0	Videos online, modules, e-books,	Core Value: *Committed* Sub-Value: *Perseverant in learning forecasting approaches*	
EE 121 – ILO16: Discuss ande Explain the importance of regression method in	**5.0 AUTO REGRESSION AND ASSOCIATIVE REGRESSION**	10hrs	Discussions via Google Meet *Synchronous*	Oral report/presentation thru online on auto regression	70% of the students shall have a	Modules, e-books,	Core Value: *Transformational*	

energy demand analysis (EE 121 – CO3) EE 121 – ILO17: Forecast data using the regression methodologies (EE 121 – CO1) EE 121 – ILO18: Identify the diffent informations that can be obtained using the regression analysis (EE 121 – CO2)	5.1 Associative Models 5.2 The Regression Model 5.3 Mathematical Solution 5.4 Information Obtained from Regression Analysis		Learning Module 6 *Asynchronous*	and associative regression	rating of at least 3.0		Sub-Value: *Optimistic in analyzing auto regression and associative regression*	
FINAL EXAMINATION – 3.0 Hrs.								

References:

Textbooks

- Chaman, Jain L. Fundamentals of Demand Planning and Forecasting
- Padua, Roberto N., Forecasting Time Series
- Armstrong, J. Scott & Green, Kesten C., Demand Forecasting: Evidence-based Methods
- Chand, Smriti, Demand Forecasting: It's Meaning, Types, Techniques and Method Economics

Course Requirements:

- Problem Sets(CO-AT2)
- Group Project(CO-AT3)
- Quizzes and Assignments
- Midterm and Final exams

Course Evaluation:

Criteria	Lecture Grade
➢ Quizzes and online outputs/interaction (ILO-AT)	20%
➢ Performance Tasks (CO-AT)	40%
➢ Major Exams (Midterm and Final)	40%
TOTAL	**100%**

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

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*

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 include 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. CONRADO B. DELOSA JR	July 19, 2021	August 23, 2021	DACUM Workshop vis-à-vis CMO No. 101 S. 2017

Prepared by:

ENGR. CONRADO B. DELOSA JR
INSTRUCTOR II

Date: AUG 9, 2021

Noted by:

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

Date: AUG 9, 2021

Checked and reviewed by:

ENGR. VICENTE Z. DELANTE, MEng'g
Program Chair, BSEE

Date: AUG 9, 2021

Recommended by:

RONITA E. TALINGTING, PhD
Campus Director

Date: AUG 10, 2021

Approved by:

EMMYLOU A. BORJA, EdD
VP for Academic Affairs

Date: AUG 10, 201

STUDENTS WHO RECEIVED THE SYLLABUS

Syllabus in EE 121 EE Elective 3 – Energy Supply and Demand Analysis
First Semester, A.Y 2021 – 2022

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10.	20.

ENGR. CONRADO B. DELOSA JR
(Signature of Instructor over printed name)