



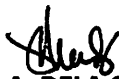
## **IMPLEMENTATION**

I.1. The curriculum/program of study is implemented utilizing and/or even judiciously exceeding CHED requirements and standards prescribed by CMO 88 s 2017 as follows:

**SUMMARY OF COURSES OFFERED IN SSCT VERSUS CHED**

COURSES	Number of Units	
	CHED Min. Requirement	SUC Curriculum
<b>I. TECHNICAL COURSES</b>	<b>(118)</b>	<b>(132)</b>
A. Mathematics	12	16
B. Natural/Physical Sciences	8	8
C. Basic Engineering Sciences	10	11
D. Allied Courses	31	39
E. Professional Courses	51	52
F. Electives	6	8
<b>II. NON-TECHNICAL COURSES</b>	<b>(58)</b>	<b>(50)</b>
A. GE Core Courses	24	24
B. Electives	9	9
C. Mandated Courses	3	3
D. Physical Education	8	8
E. NSTP	6	6
<b>III. INSTITUTIONAL COURSES</b>		<b>(6)</b>
A. Introduction to Electrical Engineering		2
B. EE Review 1		2
C. EE Review 2		2
<b>GRAND TOTAL</b>	<b>168</b>	<b>188</b>

Prepared by:



**MONALEE A. DELA CERNA**  
CEIT Faculty

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		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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> year standing
IC 106	EE REVIEW 2	2	0	2	4 <sup>th</sup> year standing
GE Hist	Readings in Philippine History	3	0	3	NONE
Sub- Total		13	5	18	
Grand Total		165	234	188	

SUMMARY	UNITS
<b>I. Technical Courses</b>	
A. Mathematics	16
B. Natural/Physical Sciences	6
C. Basic Engineering Sciences	11
D. Allied Courses	39
E. Professional Courses	52
F. Electives	6
Sub-Total	132
<b>II. Non-Technical Courses</b>	
A. GE Core Courses	24
B. Electives	9
C. Mandated Courses	3
D. Physical Education	8
E. NSTP	6
Sub-Total	60
<b>III. Institutional Courses</b>	
A. Introduction to Electrical Engineering	2
B. EE Review 1	2
C. EE Review 2	2
Sub-Total	6
Grand Total	188

Prepared by:

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Noted by:

CARLOS H. DONOSO, EdD  
Campus Director, Surigao City Campus

Checked and Reviewed by:

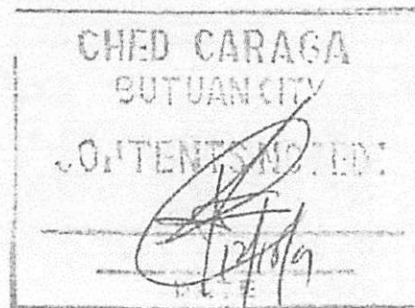
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# SURIGAO STATE COLLEGE OF TECHNOLOGY

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## 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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### 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%

The Registrar
Courses Offered
Calendar of Activities

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 uncanceled 4th year high school card)
- Certificate of Good Moral Character
- NSO Authenticated Birth Certificate
- Health Examination Result certified by a government physician
- 2 pieces recent 1 X 1 picture
- Original copy NOAE 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




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