



**SSCT**

*"For Nation's Greater Heights"*

- 1.9. *Instructional* strategies provide for student's individual needs and multiple intelligences.



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

**Outcomes Based-Education (OBE) Syllabus in MATH 161**  
**ENGINEERING MATH FOR EE**  
 Course Credit: 3.0 units (54hrs)

**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 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				



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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 study of mathematical methods for solving engineering problems such as complex number, complex variables, CauchyRiemann equations, Laplace transformation and Laplace transform analysis, Fourier series and Fourier transform, z transform, power series solutions of ordinary differential equations, partial differential equation, and hypergeometric equations such as Legendre and Bessel functions.

**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



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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-POa Demonstrating Apply knowledge of mathematics and sciences to solve complex engineering problems	<i>MATH161-CO1:</i> Apply mathematics technique to solve complex engineering problems	StudentsApply knowledge of mathematics and sciences to solve complex engineering problems  Criteria – 70% correct answers and solutions  Total Points: 100 points					✓
EE-Poe Enabling Identify, formulate, and solve complex problems in electrical engineering.	<i>MATH161-CO2:</i> Solve complex number, complex variables, Laplace transformation and Laplace transform analysis, Fourier series and Fourier transform, z transform, power series solutions of ordinary differential equations, partial differential equation, and hypergeometric equations.	Students can solve complex number, complex variables, Laplace transformation and Laplace transform analysis, Fourier series and Fourier transform, z transform, power series solutions of ordinary differential equations, partial differential equation, and hypergeometric equations.  Criteria – 70% correct answers and solutions  Total Points: 100 points					✓
EE-POk Introductory Apply techniques, skills, and modern engineering tools necessary for electrical engineering	<i>MATH161-CO3:</i> Apply techniques and modern engineering tools to solve electrical engineering practice.	Students use modern engineering application to solve electrical engineering problems  Criteria – 70% correct answers					✓



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practice	Total Points: 100 points					
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**Course Outcomes (CO) and Relationship to Intended Learning Outcomes (ILO)**

Course Outcomes (CO)	Intended Learning Outcomes (ILO)
<i>MATH161-CO1: Apply mathematics technique to solve complex engineering problems</i>	<p>MATH161-ILO2: Solve complex problems using de Moivre's formula</p> <p>MATH161-ILO6: Apply power series method to solve ordinary differential equations.</p> <p>MATH161-ILO7: Apply a range of techniques to find solutions of standard Partial Differential Equations (PDE)</p>
<i>MATH161-CO2: Solve complex number, complex variables, Laplace transformation and Laplace transform analysis, Fourier series and Fourier transform, z transform, power series solutions of ordinary differential equations, partial differential equation, and hypergeometric equations.</i>	<p>MATH161-ILO1: Evaluate complex numbers.</p> <p>MATH161-ILO2: Solve complex problems using de Moivre's formula</p> <p>MATH161-ILO3: Evaluate the Laplace transform of the functions.</p> <p>MATH161-ILO4: Solve the Fourier series of the function and evaluate the Fourier transform</p> <p>MATH161-ILO5: Evaluate the Z transform of a sequence.</p> <p>MATH161-ILO6: Apply power series method to solve ordinary differential equations.</p> <p>MATH161-ILO7: Apply a range of techniques to find solutions of standard Partial Differential Equations (PDE)</p> <p>MATH161-ILO8: Solve the general equation of the</p>



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	Hypergeometric equation.
MATH161-CO3: Apply techniques and modern engineering tools to perform electrical engineering practice.	<p>MATH161-ILO2: Solve complex problems using de Moivre's formula</p> <p>MATH161-ILO3: Evaluate the Laplace transform of the functions.</p> <p>MATH161-ILO4: Solve the Fourier series of the function and evaluate the Fourier transform</p> <p>MATH161-ILO5: Evaluate the Z transform of a sequence.</p> <p>MATH161-ILO6: Apply power series method to solve ordinary differential equations.</p> <p>MATH161-ILO7: Apply a range of techniques to find solutions of standard Partial Differential Equations (PDE)</p> <p>MATH161-ILO8: Solve the general equation of the Hypergeometric equation.</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
MATH161-ILO1: Evaluate complex numbers.  (MATH161-CO1, MATH161-CO2, )  MATH161-ILO2: Solve	<b>1. COMPLEX NUMBER SYSTEM AND COMPLEX VARIABLES</b>  1.1. <i>Complex Numbers and Their Geometric</i>	5.0 hrs.	Learning Module 1 <i>Asynchronous</i>	Problem solving quiz on complex number system and complex variables.	70% of the students shall have a rating of at least 3.0	Modules, e-books, textbooks, and worksheets	Core Value: <i>Committed</i>  Sub-Value: <i>Determined in learning the basic concepts of</i>	



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<p>complex problems using de Moivre's formula</p> <p>(MATH161-CO1, MATH161-CO2, MATH161-CO3)</p>	<p><i>Representation</i></p> <p>1.2. <i>Forms of Complex Numbers</i></p> <p>1.3. <i>Addition and Subtraction of Complex Numbers</i></p> <p>1.4. <i>Multiplication and Division of Complex Numbers</i></p> <p>1.5. <i>Conjugate of Complex Numbers</i></p> <p>1.6. <i>Argand Diagram</i></p> <p>1.7. <i>De Moivre's Theorem</i></p>						<p><i>complex number system</i></p>	
<p><i>MATH161-ILO3:</i> Evaluate the Laplace transform of the functions.</p> <p>(MATH161-CO2, MATH161-CO3)</p>	<p><b>2. THE LAPLACE TRANSFORM</b></p> <p>2.1. <i>Laplace Transform Definition</i></p> <p>2.2. <i>Transforms of simple functions</i></p> <p>2.3. <i>Properties of the</i></p>	<p>10.0 hrs.</p>	<p>Learning Module 2 <i>Asynchronous</i></p>	<p>Problem solving quiz on the Laplace transform of the functions</p>	<p>70% of the students shall have a rating of at least 3.0</p>	<p>Videos online, modules, e-books, Multisim software, and worksheets</p>	<p>Core Value: <i>Committed</i></p> <p>Sub-Value: <i>Determined in learning the Laplace transform of functions</i></p>	





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	<p><i>Laplace transform</i></p> <p>2.4. <i>Solution of differential equations</i></p> <p>2.5. <i>Laplace transform application</i></p>							
<p><i>MATH161-ILO4: Solve the Fourier series of the function and evaluate the Fourier transform</i></p> <p>(MATH161-CO2, MATH161-CO3)</p>	<p><b>3. FOURIER SERIES AND FOURIER TRANSFORM</b></p> <p>3.1. <i>Fourier's theorem</i></p> <p>3.2. <i>Functions of period <math>2\pi</math></i></p> <p>3.3. <i>Even and odd functions</i></p> <p>3.4. <i>Linearity property</i></p> <p>3.5. <i>The Fourier transform</i></p> <p>3.6. <i>Properties of the Fourier transform</i></p>	10.0 hrs.	<p>Learning Module 3</p> <p><i>Asynchronous</i></p>	<p>Problem solving quiz on Fourier series and Fourier transform.</p>	<p>70% of the students shall have a rating of at least 3.0</p>	<p>Videos online, modules, e-books, Multisim software, and worksheets</p>	<p>Core Value: <i>Committed</i></p> <p>Sub-Value: <i>Perseverant in solving fourier series and fourier transform of functions</i></p>	
<b>MIDTERM EXAMINATION – 2.0 Hrs.</b>								
<p><i>MATH161-ILO5: Evaluate the Z transform</i></p>	<p>4. <i>The Z transform and its application</i></p>	7.0 hrs.	<p>Learning Module 4</p> <p><i>Asynchronous</i></p>	<p>Problem solving quiz on z</p>	<p>70% of the students</p>	<p>Videos online, modules, e-</p>	<p>Core Value: <i>Committed</i></p>	



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of a sequence.  (MATH161-CO1, MATH161-CO3)	<p>4.1. <i>The z transform</i></p> <p>4.2. <i>Properties of the z transform</i></p> <p>4.3. <i>The inverse z transform</i></p> <p>4.4. <i>Engineering Application</i></p>			transform and its engineering application.	shall have a rating of at least 3.0	books, Multisim software, and worksheets	Sub-Value: <i>Determined in learning z transform and its engineering application</i>	
<i>MATH161-ILO6: Apply power series method to solve ordinary differential equations.</i>  (MATH161-CO1, MATH161-CO2, MATH161-CO3)	<p>5. <i>Power series solutions of Ordinary Differential Equations</i></p> <p>5.1. <i>Power Series Method</i></p> <p>5.2. <i>Legendre's Equation</i></p> <p>5.3. <i>Extended Power Series Method: Frobenius Method</i></p>	7.0 hrs.	Learning Module 5 <i>Asynchronous</i>	Problem solving quiz on power series solutions of PDEs	70% of the students shall have a rating of at least 3.0	Modules, e-books, Multisim software, and worksheets	Core Value: <i>Committed</i>  Sub-Value: <i>Determined in learning new methods to solve ODEs</i>	
<i>MATH161-ILO7: Apply a range of techniques to find solutions of standard Partial Differential Equations</i>	<p>6. <i>Partial Differential Equations</i></p> <p>6.1. <i>Basic Concepts of PDEs</i></p>	6.0 hrs.	Learning Module 6 <i>Asynchronous</i>	Problem solving quiz on Partial Differential Equation.	70% of the students shall have a rating of at least 3.0	Modules, e-books, Multisim software, and worksheets	Core Value: <i>Committed</i>  Sub-Value: <i>Perseverant</i>	



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(PDE)  (MATH161-CO1, MATH161-CO2, MATH161-CO3)	6.2. Solution by Separating Variables. Use of Fourier Series						<i>in solving partial differential equations</i>	
<i>MATH161-ILO8: Solve the general equation of the Hypergeometric equation.</i>  (MATH161-CO1, MATH161-CO3)	7. <i>Hypergeometric equations and their applications</i> 7.1. <i>Guass's Hypergeometric Equation</i> 7.2. <i>General solution at the regular point <math>x = 0</math></i> 7.3. <i>General solution of GHE at the regular point <math>x = 1</math>:</i>	5 hrs.	Learning Module 7 Asynchronous	Problem solving quiz on general solutions of Hypergeometric equation.	70% of the students shall have a rating of at least 3.0	Modules, e-books, Multisim software, and worksheets	Core Value: Committed  Sub-Value: Dedicated in finding the general solutions of hypergeometric equations.	
<b>FINAL EXAMINATION – 2.0 Hrs.</b>								

**References:**

Textbooks

Erwin Kreyszig, Herbert Kreyszig, Edward J. Norminton, *Advance Engineering Mathematics*, 10<sup>th</sup> Ed. JOHN WILEY & SONS, INC., 2011.  
 Glyn James, David Burley & et.al., *Advance Engineering Mathematics*, 4th Ed. Pearson Education Limited., 2011

**Course Requirements:**

- Problem Sets(CO-AT1)
- Problem Sets(CO-AT2)
- Problem Sets(CO-AT3)
- Quizzes and Assignments
- Midterm and Final exams

**Course Evaluation:**



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

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

#### 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 include 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.



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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. Vernon V. Liza	August 2019	August 2019	Followed OBTL Format as per CMO #101 S. 2017
2	Engr. Mark Marvin D. Paglinawan	July 19, 2021	August 23, 2021	DACUM Workshop vis-à-vis CMO No. 101 S. 2017

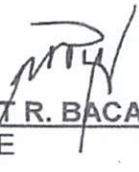
Prepared by:

  
ENGR. MARK MARVIN D. PAGLINAWAN

Guest Lecturer

Date: 1/25/2022

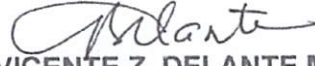
Noted by:

  
ENGR. ROBERT R. BACARRO, MECE, MBA

Dean, COLLEGE

Date: 1/28/2022

Checked and reviewed by:

  
ENGR. VICENTE Z. DELANTE, MEng'g

Program Chair, BSEE

Date: 1/28/2022

Recommended by:

  
RONITA E. TALINGTING, PhD

Campus Director

Date: 1/31/2022

Approved by:

  
EMMYLOU A. BORJA, EdD

VP for Academic Affairs

Date: 1/31/2022

# Class Supervision







"For Nation's Greater Heights"

**SURIGAO STATE COLLEGE OF TECHNOLOGY**

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**STUDENT AFFAIRS OFFICE**

**INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS**

**Name of Organization/Club/Society**

**CALENDAR OF ACTIVITIES**

**A.Y. 2019-2020**

MONTH	DATE	ACTIVITY	PERSONS INVOLVED	VENUE
AUGUST	22	1 <sup>ST</sup> IIEES ASSEMBLY	EE STUDENTS	ACADEMIC HALL
SEPTEMBER	16-20	INTRAMURALS WEEK (IIEES IGP)	SSCT STUDENTS	ENGINEERING BUILDING
	26-28	15 <sup>TH</sup> REGIONAL STUDENTS CONFERENCE	EE STUDENTS	USTP (C.D.O.)
OCTOBER	1	EE TUTORIAL	EE STUDENTS	ENGINEERING BUILDING
	24-26	EE SPORTFEST	EE STUDENTS	TBA
	28-30	RCSC SEMINAR WORKSHOP	RCSC OFFICERS	ACADEMIC HALL
NOVEMBER	21	EE TUTORIAL	EE STUDENTS	ENGINEERING BUILDING
	28-29	6 <sup>TH</sup> ELECTRICAL ENGINEERING STUDENT SUMMIT (EETS)	EE/EET STUDENTS	SMX CONVENTION CENTER
DECEMBER	5	2 <sup>ND</sup> IIEES ASSEMBLY	EE STUDENTS	ACADEMIC HALL
	10	EE TUTORIAL	EE STUDENTS	ENGINEERING BUILDING
	15	IIEECHRISTMAS PARTY	EE STUDENTS	TBA
JANUARY	10	3 <sup>RD</sup> IIEES ASSEMBLY	EE STUDENTS	ACADEMIC HALL





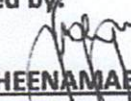
**SURIGAO STATE COLLEGE OF TECHNOLOGY**

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FEBRUARY	13	EE TUTORIAL	EE STUDENTS	ENGINEERING BUILDING
	TBA	SSCT COLLEGE WEEK (IIEES IGP)	SSCT STUDENTS	ENGINEERING BUILDING
MARCH	TBA	21 <sup>ST</sup> NATIONAL STUDENT CONFERENCE (NSCon)	EE/EET STUDENTS	TBA
APRIL	23	EE TUTORIAL	EE STUDENTS	ENGINEERING BUILDING
MAY	5	EE TUTORIAL	EE STUDENTS	ENGINEERING BUILDING
	12	4 <sup>TH</sup> IIEES ASSEMBLY	EE STUDENTS	ACADEMIC HALL

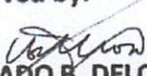
Prepared by:

  
**KHEY SHEENAMAE E. TAMPI**  
Secretary

Certified by:

  
**RAUL S. SANCHEZ JR.**  
President

Approved by:

  
**CONRADO B. DELOSA JR.**  
Adviser



"For Nation's Greater Heights"

Republic of the Philippines  
**SURIGAO STATE COLLEGE OF TECHNOLOGY**  
Narciso Street, Surigao City



CERTIFICATE NUMBER: AJA19-0225

# DOCUMENTATIONS / NARRATIVE REPORTS

Tel. Nos.: (086) 826-0135,  
(086) 231-7798

Email: [surigaostatecollege@yahoo.com](mailto:surigaostatecollege@yahoo.com)  
URL: [ssct.edu.ph](http://ssct.edu.ph)



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Republic of the Philippines  
**SURIGAO STATE COLLEGE OF TECHNOLOGY**  
Narciso Street, Surigao City



CERTIFICATE NUMBER: AJA19-0225

## INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS

### NARRATIVE REPORT



**SSCT INTRAMURALS IGP**  
September 23-27, 2019  
EB 301, Engineering Building



First pair of the IGP



Creating new friendship



Photo taken during the 3<sup>rd</sup> day



Photo taken during the 4<sup>th</sup> day

The Institute of Integrated Electrical Engineering Students conducted a Blind Sweet Dance as an income generating project in relation to the celebration of ssct intramurals 2019.

The said activity started at 8:00 AM and ended at exactly 4:00 PM. It was organized by the IIEES officers and facilitated also with the selected electrical engineering students. On the first day of IGP, there were students who availed the service however there were only few of them since some students doesn't know yet the booth's location. The following days, IGP was very crowded and all they customers were very excited of knowing whoever the mysterious person they are dancing with. The joy continues when they take off their blindfolds and found out who their partners are. It also brings joy to the organizers because we tend to bring people together and create new friendship.

In conclusion, it was really a memorable experience worth-treasuring. The enjoyment experienced both by the customers and organizers were immeasurable. It was all thanks to the participation of the organizers (officers and manpower).

Prepared by:

**KHEY SHEENAMAE E. TAMPI**  
IIEES Secretary

Certified by:

**RAUL S. SANCHEZ**  
IIEES President

Noted by:

**ENGR. CONRADO B. DELOSA JR.**  
IIEES Adviser



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**INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS**

NARRATIVE REPORT  
**2nd SSCT Wide Leaders Congress**  
November 29-December 1, 2019  
SSCT Main Campus



IIEES officers with SSG President



3<sup>rd</sup> Outstanding Group



SSG Auditor and IIEES active leaders

boodle-fight dinner prepared by the SSG Advisers of various campuses. Social night took place on the evening of the second day. It was indeed a wonderful night full of enjoyment.

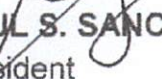
On the third and last day of the event, SSCT City Campus SSG Auditor, Mary Ladyniel O. Analisok discussed about humility. Exchanging of thoughts, ideas and experiences was participated lively by the student leaders. The winners of the different contests were announced afterwards.

The said event gave lots of knowledge and life lessons to the student leaders. Students were not only taught on how be aware on their individual selves but also to be able to express his/her own thoughts to the people around and be able to socialize well. Leadership starts in each of us.

Prepared by:

  
**KHEY SHEENAMAE TAMPIPI**  
Secretary

Certified by:

  
**RAUL S. SANCHEZ JR**  
President

Noted by:

  
**ENGR. CONRADO B. DELOSA JR.**  
Adviser



"For Nation's Greater Heights"

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Narciso Street, Surigao City



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## INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS

NARRATIVE REPORT  
**2nd SSCT Wide Leaders Congress**  
November 29-December 1, 2019  
SSCT Main Campus



2<sup>nd</sup> SSCT Wide Leaders Congress



Amazing Race



Social's night dinner



During Socials Night

The Student Supreme Government (SSG) of SSCT main campus, conducted the 2<sup>nd</sup> SSCT Wide Leaders Congress with a theme "Transform: The Building Blocks of Leadership by Unleashing your Potential".

This was organized to promote the camaraderie of the student leaders coming from different branches of SSCT. It also aims to strengthen the bonds and enhanced leaders. The said event started through an opening prayer and was followed by the singing of the Philippine National Anthem. The participants were then presented by the SSG president of the main campus, Mr. Emman Carl E. Elano, during his opening remarks, an orientation also took place and handled by PCMS Laila J. Ballicud, that was about Violence Against Women and Children (VAWC) with Gender and Development office of City Campus and Student-Teacher Association (STASS). The delivery of the Congress House Rules followed which was done by the SSG City Campus Secretary, Leonor Atom D. Paqueo Jr..

"Social Responsibility" was the main topic of the Congress's first session which was delivered by Mr. Remuel M. Coles, MAEd. Ms. Ana Nicolie L. Cerio, RPM, one of the speakers, spoke about "Mental Health Awareness", as the second session speakers delivered her message.

The second day of the event started with the soul-enriching message of Fr. Yohnes, that was all about "Pastoral Formation". The session speakers was Mr. Francis Tom A. Pereoes, MAEd, the Secretary of ASSCAT BOT, who delivered his topic about "Unified Student Leadership".

In the afternoon, Team building started at 1:00 PM and ended at 5:00 PM and Followed by a



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Republic of the Philippines  
**SURIGAO STATE COLLEGE OF TECHNOLOGY**  
Narciso Street, Surigao City



**INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS AND  
JUNIOR MATHEMATICS SOCIETY**

**NARRATIVE REPORT**  
**Free Math Tutorial**  
December 9, 2019  
SSCT Gymnasium and AC



Discussion led by Junnel Palen



Seatwork exercise



Discussion of the solution



Answering analytic calculus problem

The Junior Mathematics Society, in collaboration with the Institute of Integrated Electrical Engineering Students conducted its first Free Math Tutorial among BSED Math, BS Math and BSEE students to enhance their basic concept on mathematics and electrical engineering subjects particularly on calculus and engineering science and allied subjects.

The said activity was open to all JMS and IIEES members who are willing to expand their knowledge that were inculcated by their respective instructors. It was participated with 35 tutees coming from BSEd math and BSEE and 5 tutors from IIEES officers. The tutors had discussed selected topics on calculus and evenly answered all the questions that were given by the tutees, explained the solutions to the problem.

The tutorial is not only to impart and strengthen the knowledge of the tutees but it is also helpful as a review to the tutors who are about to take their board examination.

Prepared by:

**KHEY SHEENAMAE TAMPIPI**  
Secretary

Certified by:

**RAUL S. SANCHEZ JR.**  
IIEES President

Noted by:

**ENGR. CONRADO B. DELOSA JR.**  
IIEES Adviser



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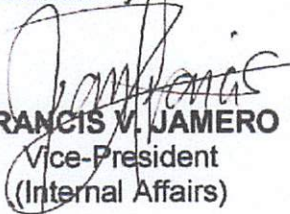
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Narciso Street, Surigao City



**RESOLUTION No. 0002 S.Y. 2019-2020**

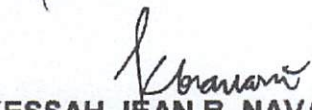
**A RESOLUTION TO APPOINT ENGR. CONRADO B. DELOSA JR. TO BE THE ADVISER  
OF THE INSTITUTE OF INTEGRATED ELECTRICAL  
ENGINEERING STUDENTS-SSCT (IIEES-SSCT) CHAPTER  
A.Y. 2019-2020.**

Resolved by:

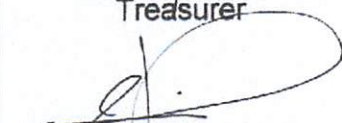
  
**FRANCIS V. JAMERO**  
Vice-President  
(Internal Affairs)

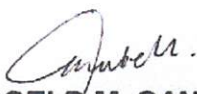
  
**SHIELA MAE M. CEMPRON**  
Vice-President  
(External Affairs)

  
**FELIX L. HINAYON**  
Vice-President  
(Technical Affairs)

  
**KESSAH JEAN B. NAVARRO**  
Treasurer

  
**STEPHANE GRACE D. COQUILLA**  
Auditor

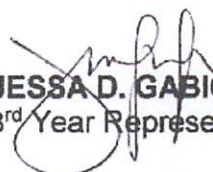
  
**JUNNEL P. PALEN**  
P.R.O.

  
**ROELD M. CANIBEL**  
Business Manager

  
**HECTOR M. TASIL**  
Activity Coordinator

  
**ZELYAN MATTHEW S. TIBAY**  
1<sup>st</sup> Year Representative

  
**LEEVAN JOEY U. TANDAN**  
2<sup>nd</sup> Year Representative

  
**JESSA D. GABION**  
3<sup>rd</sup> Year Representative

  
**EDDGAR DARREN E. ELAN**  
4<sup>th</sup> Year Representative

  
**INEZ EREL B. BONILLA**  
5<sup>th</sup> Year Representative



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**SURIGAO STATE COLLEGE OF TECHNOLOGY**  
Narciso Street, Surigao City



CERTIFICATE NUMBER: AJA19-0225

**RESOLUTION No. 0002 S.Y. 2019-2020**

**A RESOLUTION TO APPOINT ENGR. CONRADO B. DELOSA JR. TO BE THE ADVISER OF THE INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS-SSCT (IIIES-SSCT) CHAPTER A.Y. 2019-2020.**


Noted by:

  
**EDEN GLIFF P. SEBAG, MAEd**  
In-charge, Campus Organization

Concurred by:

  
**MARIA FE C. GUERRA, MAEd**  
Director, Student Affairs

Recommending Approval:

  
**CARLOS H. DONOSO, Ed. D.**  
Director, City Campus

Approved:

  
**EMMYLOU A. BORJA, Ed.D.**  
Vice President, Academic Affairs





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**SURIGAO STATE COLLEGE OF TECHNOLOGY**  
Narciso Street, Surigao City



**INSTITUTE OF INTEGRATED ELECTRICAL  
ENGINEERING STUDENTS**



**RESOLUTION No. 0002 S.Y. 2019-2020**

**A RESOLUTION TO APPOINT ENGR. CONRADO B. DELOSA JR. TO BE THE ADVISER  
OF THE INSTITUTE OF INTEGRATED ELECTRICAL  
ENGINEERING STUDENTS-SSCT (IIEES-SSCT) CHAPTER  
A.Y. 2019-2020.**

**WHEREAS**, The IIEES-SSCT is an organization ought to appoint **Engr. Conrado B. Delosa Jr.** to be the adviser to further share his expertise and guidance to the electrical engineering students that will develop each of their full capabilities;

**Now therefore**, on the motion of Mr. Raul S. Sanchez Jr.- IIEES President and seconded by Mr. Francis V. Jamero-IIEES Vice President of Internal Affairs, the IIEES Officers would like to appoint **Engr. Conrado B. Delosa Jr.** to be the adviser of Institute of Integrated Electrical Engineering Student-SSCT Chapter for 2019-2020;

**RESOLVED**, that the IIEES Officers would like to appoint **Engr. Conrado B. Delosa Jr.** to be the adviser of Institute of Integrated Electrical Engineering Student (IIEES)-SSCT Chapter for the Academic Year 2019-2020;

(Unanimously Adopted on September 17, 2019)

I hereby affix my signature for the **CORRECTNESS AND TRUTHFULNESS** of this document.

**KHEY SHEENAMAE TAMPIPI**  
Secretary

Certified by:

**RAUL S. SANCHEZ JR.**  
President



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**SURIGAO STATE COLLEGE OF TECHNOLOGY**  
Narciso Street, Surigao City



CERTIFICATE NUMBER: AJA17-0225

**MEMORANDUM**

**REFERENCE NO.:** SSCT - ADMIN-09-105, Series 19

**DATE :** September 20, 2019

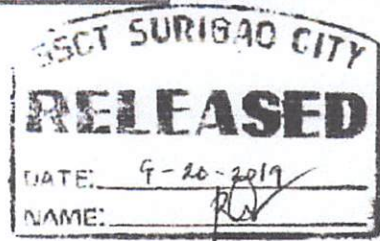
**TO :** **Adviser:**  
ENGR. CONRADO B. DELOSA JR.

**Students:**

RAUL S. SANCHEZ JR.      HECTOR I M. TASIL  
JOHN REY A. CANUMAY    CHARNEIL JAN TRAJANO  
JUNE DARYL BOC          JUNNEL P. PALEN

**FROM :** The COLLEGE PRESIDENT

**SUBJECT :** ATTENDANCE TO 15<sup>TH</sup> IEEE-CSC REGIONAL STUDENT  
CONFERENCE WITH THE THEME "DISTINCTIVE JOURNEY  
ON ADVANCING GLOBAL COMPETITIVENESS" ON  
SEPTEMBER 26-28, 2019 AT BRGY. NAZARETH GYM,  
CAGAYAN DE ORO CITY



Per endorsement letter and in the exigency of service, you are hereby advised to proceed to Brgy. Nazareth Gym, Cagayan De Oro City as stated in the above subject.

Expenses incident to your travel will be charged against local school funds subject to usual accounting and auditing rules & regulations.

Please be guided accordingly.

GREGORIO Z. GAMBOA, Jr., Ed.D.  
College President



Conforme:

ENGR. CONRADO B. DELOSA JR.

**Students:**

RAUL S. SANCHEZ JR.      HECTOR I M. TASIL  
JOHN REY A. CANUMAY    CHARNEIL JAN TRAJANO

9/20/2019



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**SURIGAO STATE COLLEGE OF TECHNOLOGY**  
Narciso Street, Surigao City



CERTIFICATE NUMBER: AJA19-Q225

## INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS

NARRATIVE REPORT  
**15<sup>th</sup> IIEE CSC Regional Student Conference**  
September 26-28, 2019  
SAGATECH RESORT, Bulua, Cagayan de Oro City



Regional Math Wizard



Regional Quiz Show



15<sup>th</sup> IIEE CSC REGIONAL STUDENT CONFERENCE



Introduction of IIEE CSC SSCT CHAPTER

The Council of Student Chapters (CSC), arm of Institute of Integrated Electrical Engineers of the Philippines, Inc. (IIEE) organized its 15<sup>th</sup> IIEE CSC Regional Student Conference with the theme: "Distinctive Journey on Advancing Global Competitiveness".

The said activity held last September 26-28, 2019 at SAGATECH RESORT, Bulua, Cagayan de Oro City. The activity was composed of various activities that would benefit the Electrical Engineering Students. This activity involved 33<sup>rd</sup> Regional Quiz Show, 19<sup>th</sup> Regional Math Wizard, Technical Seminar and 20<sup>th</sup> Regional Student Congress.

Throughout Northern Mindanao, it was participated by 12 Colleges; every participating school had their entry on RMW and RQS where SSCT got the 5<sup>th</sup> place and 4<sup>th</sup> place respectively. These activities uplift the standards of electrical engineering education in the region by promoting and organizing healthy competition among the student members throughout the region.

Prior to this activity was the orientation of the SSCT quizzers/participants who joined the RSCon by Engr. Delosa as the adviser and coach on the said conference.

Prepared by:

RAUL S. SANCHEZ JR.  
IIEES President

Noted by:

ENGR. CONRADO B. DELOSA JR.  
IIEES Adviser



Republic of the Philippines  
OFFICE OF THE PRESIDENT  
**COMMISSION ON HIGHER EDUCATION**



**MEMORANDUM FROM THE OFFICE OF THE CHAIRPERSON**

**FOR :** ALL CHED CENTRAL AND REGIONAL OFFICE DIRECTORS  
ALL PRESIDENTS / HEADS OF PUBLIC AND PRIVATE HIGHER  
EDUCATION INSTITUTIONS (HEIS)

**SUBJECT :** PARTICIPATION IN THE 15<sup>th</sup> IIEE-CSC REGIONAL STUDENT  
CONFERENCE WITH THE THEME "DISTINCTIVE JOURNEY ON  
ADVANCING GLOBAL COMPETITIVENESS" TO BE HELD THIS  
SEPTEMBER 26-28, 2019

**DATE :** 16 September 2019

In accordance with the pertinent provisions of Republic Act (R.A.) 7722, otherwise known as the "Higher Education Act of 1994", this Office hereby endorses the above undertaking organized by the Council of Student Chapters (CSC), the national student arm of the Institute of Integrated Electrical Engineers of the Philippines, Inc. (IIEE), for the support and participation of all concerned.

Below is the list of specific venues / host schools per Region:

Region	Host School / Venue
1	Mariano Marcos State University
2	Bulacan State University
3	Far Eastern University – Institute of Technology
4	Cavite State University
5	Sorsogon State College
6	Southland College
7	Eastern Visayas State University – Main Campus
8	Barangay Nazareth Gym
9	Notre Dame of Dadiangas University
10	Jose Memorial State University

This activity is open to all interested participants from Higher Education Institutions (HEIs).

Participation of officials, employees and students from private higher education institutions (HEIs) shall be **VOLUNTARY**. Officials and employees of State and Local Universities and Colleges (SUCs and LUCs) who will participate in this activity should obtain prior approval from



**INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERS OF THE PHILIPPINES, INC.**  
**COUNCIL OF STUDENT CHAPTERS**



This  
**Certificate of Attendance**

is hereby awarded to

**JEVEN CARLO R. TAN**

for his/her outstanding participation on the following seminars:

**"IIEE Embracing Industry 4.0 in Advancing Global Competitiveness"**

**"Power Substation Transformer Installation And Commissioning"**

on a nationwide event conducted in line with the

**15<sup>th</sup> Regional Student Conference**

bearing the theme of

**IIEE 2019: Distinctive Journey in Advancing Global Competitiveness**

Given this 26<sup>th</sup> day of September, in the year of our Lord, Two Thousand and Nineteen at

**Sagatech Resort, Bulua, Cagayan De Oro City.**

**SACHO OSWALD C. ADDATU**

Head, 15<sup>th</sup> Regional Student Conference  
 IIEE - Council of Student Chapters

**ENGR. VINCENT F. PELAGO**

Chairman

**ENGR. ALLAN ANTHONY P. ALVAREZ**

National Secretary

**JAY RICO S. CANCINO**

National Executive Chairman



**INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERS OF THE PHILIPPINES, INC.**  
**COUNCIL OF STUDENT CHAPTERS**



This  
**Certificate of Attendance**

is hereby awarded to

**HECTOR M. TASILI**

for his/her outstanding participation on the following seminars:

**"IIEE Embracing Industry 4.0 in Advancing Global Competitiveness"**

**"Power Substation Transformer Installation And Commissioning"**

on a nationwide event conducted in line with the

**15<sup>th</sup> Regional Student Conference**

bearing the theme of

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Given this 26<sup>th</sup> day of September, in the year of our Lord, Two Thousand and Nineteen at

**Sagatech Resort, Bulua, Cagayan De Oro City**

**SACHO OSWALD C. ADDATU**

Head, 15<sup>th</sup> Regional Student Conference  
 IIEE - Council of Student Chapters

**ENGR. VINCENT F. PELAGO**

Chairman

**ENGR. ALLAN ANTHONY P. ALVAREZ**

National Secretary

**JAY RICO S. CANCINO**

National Executive Chairman



**INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERS OF THE PHILIPPINES, INC.**  
**COUNCIL OF STUDENT CHAPTERS**



This  
**Certificate of Attendance**

is hereby awarded to  
**RAUL S. SANCHEZ JR.**

for his/her outstanding participation on the following seminars:

**"IIEE Embracing Industry 4.0 in Advancing Global Competitiveness"**  
**"Power Substation Transformer Installation And Commissioning"**

on a nationwide event conducted in line with the

**15<sup>th</sup> Regional Student Conference**

bearing the theme of

**IIEE 2019: Distinctive Journey in Advancing Global Competitiveness**

Given this 26<sup>th</sup> day of September, in the year of our Lord, Two Thousand and Nineteen at

**Sagatech Resort, Bulua, Cagayan De Oro City**

**SACHO OSWALD C. ADDATU**  
 Head, 15<sup>th</sup> Regional Student Conference  
 IIEE - Council of Student Chapters

**ENGR. VINCENT F. PELAGO**  
 Chairman

**ENGR. ALLAN ANTHONY P. ALVAREZ**  
 National Secretary

**JAY RECO S. CANCINO**  
 National Executive Chairman



**INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERS OF THE PHILIPPINES, INC.**  
**COUNCIL OF STUDENT CHAPTERS**



This  
**Certificate of Attendance**

is hereby awarded to  
**JUNNEL P. PALEN**

for his/her outstanding participation on the following seminars:

**"IIEE Embracing Industry 4.0 in Advancing Global Competitiveness"**  
**"Power Substation Transformer Installation And Commissioning"**

on a nationwide event conducted in line with the

**15<sup>th</sup> Regional Student Conference**

bearing the theme of

**IIEE 2019: Distinctive Journey in Advancing Global Competitiveness**

Given this 26<sup>th</sup> day of September, in the year of our Lord, Two Thousand and Nineteen at

**Sagatech Resort, Bulua, Cagayan De Oro City**

**SACHO OSWALD C. ADDATU**  
 Head, 15<sup>th</sup> Regional Student Conference  
 IIEE - Council of Student Chapters

**ENGR. VINCENT F. PELAGO**  
 Chairman

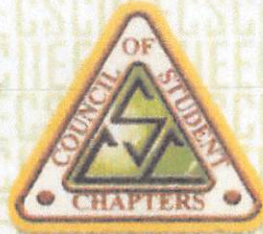
**ENGR. ALLAN ANTHONY P. ALVAREZ**  
 National Secretary

**JAY RECO S. CANCINO**  
 National Executive Chairman



INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERS OF THE PHILIPPINES, INC.

COUNCIL OF STUDENT CHAPTERS



*This*  
**Certificate of Participation**

is awarded to

**RAUL S. SANCHEZ JR.**

as a team member of

**Surigao State College Of Technology**

for having qualified to take part in the recently concluded

**19th Regional Math Wizard**

a nationwide simultaneous event conducted in line with the

**15th Regional Student Conference**

bearing the theme of

**IIEE 2019: Distinctive Journey in Advancing Global Competitiveness**

Given this 27th day of September, in the year of our Lord, Two Thousand and Nineteen at

**Sagatech Resort, Bulua, Cagayan De Oro City**

  
SACHO OSWALD C. ADDATU

Head, 15th Regional Student Conference

IIEE—Council of Student Chapters

  
ENGR. VINCENT F. PELAGO

Chairman

IIEE—Student Affairs Committee

  
ENGR. ALLAN AN HONUY P. ALVAREZ

National Secretary

IIEE

  
JAY RICO S. CANCINO

National Executive Chairman

IIEE—Council of Student Chapt



Republic of the Philippines  
OFFICE OF THE PRESIDENT  
**COMMISSION ON HIGHER EDUCATION**



**MEMORANDUM FROM THE OFFICE OF THE CHAIRPERSON**

**FOR :** ALL CHED CENTRAL AND REGIONAL OFFICE DIRECTORS  
ALL PRESIDENTS / HEADS OF PUBLIC AND PRIVATE HIGHER  
EDUCATION INSTITUTIONS (HEIS)

**SUBJECT :** PARTICIPATION IN THE 44<sup>th</sup> ANNUAL NATIONAL  
CONVENTION AND 3E XPO 2019 WITH THE THEME "IIEE@44:  
DISTINCTIVE JOURNEY ON ADVANCING GLOBAL  
COMPETITIVENESS" TO BE HELD THIS NOVEMBER 27-30, 2019  
AT THE SMX CONVENTION CENTER, SM MALL OF ASIA  
COMPLEX, PASAY CITY

**DATE :** 02 October 2019

In accordance with the pertinent provisions of Republic Act (R.A.) 7722, otherwise known as the "Higher Education Act of 1994", this Office hereby endorses the above undertaking organized by the Institute of Integrated Electrical Engineers of the Philippines, Inc. (IIEE), for the support and participation of all concerned.

This activity is open to all interested participants from Higher Education Institutions (HEIs).

Participation of officials, employees and students from private higher education institutions (HEIs) shall be **VOLUNTARY**. Officials and employees of State and Local Universities and Colleges (SUCs and LUCs) who will participate in this activity should obtain prior approval from the President/Head of their respective institutions. Proper use of government funds in accordance with the Department of Budget and Management (DBM) National Budget Circular No. 563 of 2016 and Budget Circular No. 2017-5 is highly expected.

For registration and further information, you may coordinate with the organizers via email through [iieetele marketer01@gmail.com](mailto:iieetele marketer01@gmail.com) / [iieetele marketer02@gmail.com](mailto:iieetele marketer02@gmail.com) or via phone inquiry through (+632) 414 5626 local 410-411 or 0961 213 3962 / 0927 663 7542.

Wide dissemination of this Memorandum is desired.

**J. PROSPERO E. DE VERA III, DPA  
Chairman**

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Republic of the Philippines  
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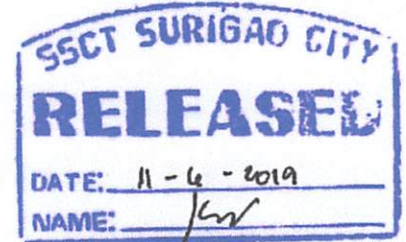
CERTIFICATE NUMBER: AJA19-0225

**MEMORANDUM**

**REFERENCE NO.:** SSCT - ADMIN-11-18, Series 2019

**DATE :** November 5, 2019

**TO :** **Advisers:**  
ENGR. CONRADO B. DELOSA JR.  
**Students:**  
RAUL S. SANCHEZ JR.  
JUNNEL P. PALEN



**FROM :** THE COLLEGE PRESIDENT

**SUBJECT :** ATTENDANCE TO 6<sup>TH</sup> ELECTRICAL ENGINEERING AND  
TECHNOLOGY STUDENT SUMMIT ON NOVEMBER 28-29, 2019  
AT SMX CONVENTION CENTER, PASAY CITY

Per request and in the exigency of the service, you are hereby advised to proceed to SMX Convention Center, Pasay City. Off-campus activity should be complied with the CHED requirements as mentioned in the above subject.

Expenses incident to your travel will be charged against local school funds subject to usual accounting and auditing rules & regulations.

Please be guided accordingly.

GREGORIO Z. GAMBOA, Jr., Ed.D.  
College President

**CONFORME:**

ENGR. CONRADO B. DELOSA JR.  
RAUL S. SANCHEZ JR.  
JUNNEL P. PALEN



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Narciso Street, Surigao City

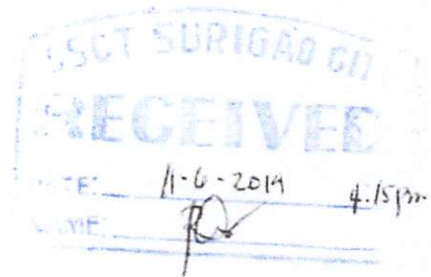


CERTIFICATE NUMBER: AJA19-0225

**OFFICE OF THE VICE-PRESIDENT FOR ACADEMIC AFFAIRS**

November 5, 2019

**DR. GREGORIO Z. GAMBOA, JR.**  
SUC President III  
Surigao State College of Technology



Sir:

Warm Greetings of Peace and Goodwill!

The Institute of Integrated Electrical Engineers of the Philippines, Inc. and IIEE-Council of Student Chapters will be holding the 6<sup>th</sup> Electrical Engineering and Technology Student Summit with the IIEE'S 44<sup>th</sup> Annual National Convention (ANC) on November 27-30, 2019 at SMX Convention Center, Pasay City.

The aforementioned summit will be a gathering of all IIEE members, either students or professionals throughout the country to impart knowledge and expertise related to Electrical Engineering and Electrical Engineering Technology. Thus, they will be conducting a quiz show that will serve as an avenue for the students to showcase their knowledge in Electrical related topics.

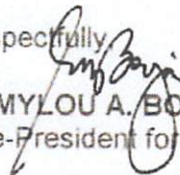
In relation to this, I would like to endorse the following faculty and students to attend in the said summit:

- Adviser - **Engr. Conrado B. Delosa Jr.**
- Students - **Raul S. Sanchez Jr.**  
**Junnel P. Palen**

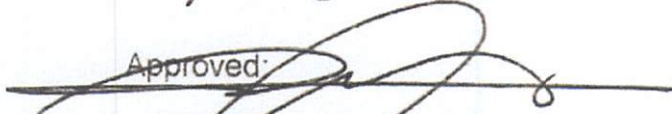
Attached herewith are the endorsement letter, CHED memo, and communication for your further perusal.

Thank you and I am hoping for your approval on this matter.

Respectfully,

  
**EMMYLOU A. BORJA, EdD**  
Vice-President for Academic Affairs

Approved:

  
**GREGORIO Z. GAMBOA, Jr., EdD**  
College President



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Republic of the Philippines  
**SURIGAO STATE COLLEGE OF TECHNOLOGY**  
Narciso Street, Surigao City

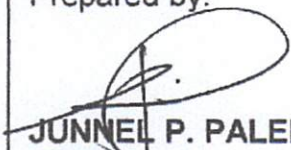


CERTIFICATE NUMBER: AJA19-0225

5. The rules and regulations:

- a) The participants are obliged to wear the School ID at all time during the activity.
- b) The participants are not allowed to go out the venue during the activities unless they are told to do so.
- c) Before departing, participants should gather with the adviser for the departure and is prohibited to travel on their own.
- d) In line with the accommodations, participants are not allowed to go out at night
- e) The participants and the adviser should take their meals together.
- f) The participants are strictly prohibited to bring deadly weapons and prohibited drugs.
- g) The participants are asked to be more polite and courteous at all times. Also, they are obliged to listen and to follow whatever the adviser asked them to do.
- h) The adviser is tasked to look out the participant's welfare and safety.


Prepared by:

  
**JUNNEL P. PALEN**  
IIEES P.R.O

Certified by:

  
**RAUL S. SANCHEZ JR.**  
IIEES President

Approved by:

  
**ENGR. CONRADO B. DELOSA JR.**  
IIEES Adviser



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Republic of the Philippines  
**SURIGAO STATE COLLEGE OF TECHNOLOGY**  
Narciso Street, Surigao City



## INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS

### NARRATIVE REPORT

#### EETSS AND ANC PRE-ORIENTATION

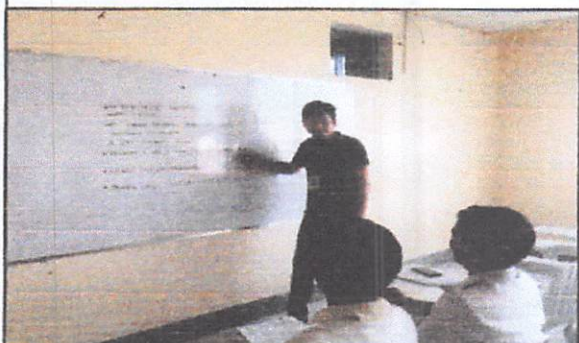
November 19, 2019  
EB 301, Engineering Building



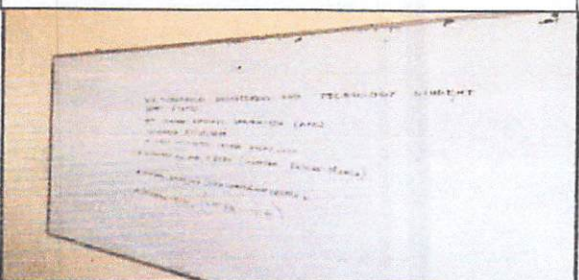
Engr. Delosa oriented the participants



Discussion of departure



Discussion of Do's and Don'ts



Departure Schedules

Once again, IIEE CSC will be holding its 6TH Electrical Engineering and Technology Student Summit launches with the IIEE's 44th Annual National Convention (ANC) having a theme of "IIEE: Distinctive Journey in Advancing Global Competitiveness" on November 28-29, 2019 at SMX Convention Center, Pasay City. In relation to this, two IIEES-SSCT officers and adviser will be participating in the said activity.

Prior to the said event is the orientation of the participating student from SSCT organized by Engr. Conrado B. Delosa, IIEES-SSCT adviser. During the orientation, the participants agreed the following:

1. The registration fee – each participating student is obliged to pay the registration fee of Php 650.00.
2. Transportation – a PUB was decided to be the means of transportation, the participants should gather in the Integrated Bus Terminal – Surigao at 9:45 in the morning on the 26<sup>th</sup> day of November 2019.
3. Accommodation – the participants are going to stay in a hotel on the night of November 26 - 30, 2019 for a sleepover.
4. Events and Venue – the participants were informed that the said activity will be held at SMX Convention Center, Pasay City and oriented that the participants can only go to the venue with the guidance of the adviser.



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Narciso Street, Surigao City



CERTIFICATE NUMBER: AJA19-0225

## INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS

### NARRATIVE REPORT

### IIEE's 44<sup>th</sup> Annual National Convention (ANC) & 6<sup>th</sup> Electrical Engineering and Technology Student Summit November 27-30, 2019



SMX Convention Center, Mall of Asia Complex, Pasay City, Metro Manila



ANC Registration



Annual National Convention



Electrical Engineering Exhibits



IIEES President with IIEES Adviser

The Council of Student Chapters (CSC), student arm of the Institute of Integrated Electrical Engineers of the Philippines, Inc. (IIEE) organized its 6<sup>TH</sup> Electrical Engineering and Technology Student Summit launches with the IIEE's 44<sup>th</sup> Annual National Convention (ANC) having a theme of "IIEE: Distinctive Journey in Advancing Global Competitiveness".

This was organized to support the professional growth and information necessities of the electrical practitioners in the country and to gather all active IIEE members, either students or professionals all throughout the country to impart wisdom, knowledge and expertise. The activity was able to exposed students to different fields of Electrical Engineering and Electrical Technology, and nature of job applications through Technical and Non-technical Seminars which will line up topics interesting and appealing to EE/ET students for their enjoyable learning while helping them develop and progress as future electrical practitioners.

The said activity was participated with 6000 active IIEE members and limited 250 IIEE-CSC active members throughout the country where 1 professional electrical engineer and 2 electrical engineering students from Surigao State College of Technology were able to participate on that most prestigious professional gathering .

The Annual National Convention for the professional electrical practitioners was started on the first day while the Electrical Engineering and Technology Student Summit started on the 2<sup>nd</sup> day. The highlight of the events are *Technical Seminars*, tackles Electrical Engineering and Technology related subjects as well as non-technical topics relayed by experts and professional speakers to elaborate and widen the knowledge of the students. The first speaker was Engr. Fortunato C. Leynes, PEE who discussed



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## INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS

### NARRATIVE REPORT

### IIEE's 44<sup>th</sup> Annual National Convention (ANC) & 6<sup>th</sup> Electrical Engineering and Technology Student Summit

November 27-30, 2019

SMX Convention Center, Mall of Asia Complex, Pasay City, Metro Manila



EETSS Registration



EETSS Seminar



Clash of Intellects



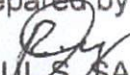
SSCT Participants

about the "The impact of the distributed generation in the electric power system", 2<sup>nd</sup> topic of the seminar was about "Power Quality" led Engr. Vincent Pelaco, 3<sup>rd</sup> was "Academic writing using Microsoft Word Advance Tool" led by Engr. Jerome E. Exito, REE, 4<sup>th</sup> was "Your Life Working as Ship Electrical Engineer" led by Engr. Arjay M. Magpantay, 5<sup>th</sup> was "Creating a Mark with Your Personality" led by Engr. Maricar Olaivar Estrabo and the last talk was with Engr. Francis V. Mapile.


On the 2<sup>nd</sup> day of EETSS were the 17<sup>th</sup> National PEC Quiz Show and 6<sup>th</sup> Clash of the Intellects in Engineering Sciences and Allied Subjects, aiming to heighten the standards of Electrical Engineering education in the country and enthusiasm of Electrical Engineering students in ESAS and PEC by promoting and organizing a healthy competition among student members nationwide.

The activities were able to provide to the students with the opportunity to witness the biggest and most prestigious gathering of electrical practitioners and exhibition of the latest in technology on the 44<sup>th</sup> IIEE Annual National Convention. All participants were able to gained more knowledge on the field of Electrical Engineering.

Prepared by:

  
RAUL S. SANCHEZ JR.  
IIEES President

Certified by:

  
ENGR. CONRADO B. DELOSA JR.  
IIEES Adviser



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**INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS**

**MINUTES ON SPECIAL MEETING**



The IIEES officers had their special meeting at the EB Room 401 of SSCT-City Campus on August 21, 2019. It was called to order at 3:00 in the afternoon.

Some of the IIEES officers were able to attend the said meeting. The following shows the attendance of the body:

<b>Raul S. Sanchez Jr</b>	<b>President</b>
<b>Shiela Mae M. Cempron</b>	<b>VP (Internal)</b>
<b>Felix L. Hinayon</b>	<b>VP (Technical)</b>
<b>Edgar Darren E. Elan</b>	<b>4<sup>th</sup> Year Representative</b>
<b>Kessah Jean Navarro</b>	<b>Treasurer</b>
<b>Stephanie Coquilla</b>	<b>Auditor</b>
<b>Jessa D. Gabion</b>	<b>3<sup>rd</sup> Year Representative</b>

The agenda were the following:

- 15<sup>th</sup> Regional Students Conference
- Intramurals IGP
- IIEES Poloshirt
- IIEES ID

**DISCUSSION:**

The meeting started with an opening prayer led by Ms. Shiela Mae M. Cempron, IIEES- Vice President (Internal Affairs). After that, Mr. Raul S. Sanchez Jr. the IIEES-President headed with the meeting.

- I. 15<sup>th</sup> RSCON**  
The RsCon is to be held at Cagayan de Oro City participated by the Electrical Engineering Students on September 26-29, 2019. The president discussed about the papers that are needed to comply so that the students can participate in the said event such as medical certificate, CHED endorsement, valid ID of parent, and insurance. It has also been discussed about the registration and the programs for the incoming regional conference.
- II. INTRAMURALS IGP**  
Since the Intramurals is fast approaching, the president decided to open a suggestion for the organization's Income Generating Project (IGP) to support the



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IIEES' programs or activities in the future. The officers' suggestions were as follows:

- Karaoke
- Blind Date
- Mini Movie Theatre
- Blind Sweet Dance With A Twist
- Wedding Booth

Majority of the officers agree with the Blind Sweet Dance so this will be the IGP of IIEES for the upcoming Intramurals and the officers assigned by the President as to when they will have their duty for the entire week.

### III. IIEES POLOSHIRT

The president has presented to kinds of design for the official polo shirt of IIEES. It has been also discussed about the cost of the shirt and the numbers of students required to have a discount from the supplier since the design is personalize and it's a bit costly.

### IV. IIEES ID

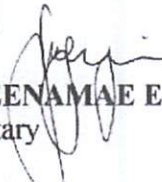
The president discussed about the re-affiliation of IIEES to the IIEE-CSC national. In order for the organization to re-affiliate, 85% of the students must sign in and must pay a registration of 100 pesos. Furthermore, the benefits of the national registration have been tackled. One of it is having an ID that proves that a certain student is a national member.

#### Comments/Suggestions:

- There must be a sample size of the polo shirt.
- The papers for re-affiliation must be submitted to the national before August ends.
- IIEES VP Technical is in charge for IGP.
- August 28, 2019 is the deadline for the payment of registration for national membership.

MEETING IS ADJOURNED BY IIEES PRESIDENT MR. RAUL S. SANCHEZ JR. AND SECONDED BY KESSAH JEAN NAVARRO, IIEES TREASURER AT EXACTLY 5:00 PM AND THERE WERE NO FURTHER TOPICS DISCUSSED.

Prepared by:

  
**KHEY SHEENAMAE E. TAMPIPI**  
IIEES Secretary

Certified by:

  
**RAUL S. SANCHEZ JR.**  
IIEES President

Noted by:

  
**ENGR. CONRADO DE LOSA**  
IIEES Adviser





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**INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS**

**IIES OFFICERS' MEETING**  
**A.Y 2019-2020**  
**August 21, 2019/1:00-3:00 PM**  
**Engineering Building Room 301**



During the discussion of the agenda by the IIES President



The meeting is open for suggestions and comments



One of the officers recapitulates the matters being discussed





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## Institute of Integrated Electrical Engineering Students

ACADEMIC YEAR 2019-2020

First Semester

### CASH INFLOW

Cash on Hand (May 18 2019)	Php 1,372.75
Income Generating Project (IGP)	Php 265.00
<b>TOTAL CASH INFLOW</b>	<b>Php 1637.75</b>

### CASH OUTFLOW

IIEES Bulletin	Php 196.00
SSCT Intramurals IGP	Php 239.75
Accomplishment Report (2 <sup>nd</sup> Semester A.Y. 2018-2019)	Php. 402.00
<b>TOTAL CASH OUTFLOW</b>	<b>Php 837.75</b>

**NET CASH INFLOW as of January 15, 2020** **Php 800.00**

Prepared by:

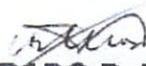
  
**KESSAH JEAN NAVARRO**  
IIEES TREASURER

Audited by:

  
**STEPHANE GRACE COQUILLA**  
IIEES AUDITOR

Noted by:

  
**RAUL S. SANCHEZ JR.**  
IIEES PRESIDENT

  
**ENGR. CONRADO B. DELOSA JR.**  
IIEES ADVISER



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# SURIGAO STATE COLLEGE OF TECHNOLOGY

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## Institute of Integrated Electrical Engineering Students

ACADEMIC YEAR 2019-2020

First Semester

### Breakdown Cash Outflow

#### IIEES Bulletin

DATE	PARTICULAR	QUANTITY	AMOUNT	OR/RER NO.
08/01/19	Paste Glue	1 pc.	Php 10.00	0101470
	Cartolina	3 pc.	Php 24.00	
	Double sided tape	2 pc.	Php 64.00	
	Cutter	2 pc.	Php 16.00	
	Glue stick	3 pc.	Php 12.00	
	Construction paper	1 pc.	Php 25.00	
	Styro foam	1 pc.	Php 45.00	

#### SSCT Intramurals IGP

DATE	PARTICULAR	QUANTITY	AMOUNT	OR/RER NO.
09/21/19	balloon	1 pc.	Php 10.00	36760
	heart ballon	3 pc.	Php 24.00	
	ribbon	2 pc.	Php 64.00	
	foam tape	2 pc.	Php 16.00	

#### Accomplishment Report (2<sup>nd</sup> Semester A.Y. 2018-2019)

DATE	PARTICULAR	QUANTITY	AMOUNT	OR/RER NO.
05/25/19	Ring bound and photocopy	2	Php 402.00	25670



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## STUDENT AFFAIRS OFFICE

### INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS

Name of Organization/Club/Society

#### LIST OF OFFICERS A.Y. 2019 - 2020



President  
Raul S. Sanchez  
BSEE-5  
09309309141



Vice President  
(Internal)  
Francis V. Jamero  
BSEE-5  
09501788239



Vice President  
(External)  
Shiela Mae M. Cempron  
BSEE-4  
09103523137



Vice President  
(External)  
Felix L. Hinayon  
BSEE-4  
09106435173



Secretary  
Khey Sheenamae E. Tampipi  
BSEE-2  
09127681218



Treasurer  
Kessah Jean B. Navarro  
BSEE-2  
09121765693



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Auditor  
 Stephane Grace D. Coquilla  
 BSEE-2  
 09466385575



P.R.O.  
 Junnel P. Palen  
 BSEE-5  
 09308553845



Business Manager  
 Roeld M. Canibel  
 BSEE-5  
 09489972282



Activity Coordinator  
 Hector M. Tasil  
 BSEE-5  
 0930 789 0151



1st Year Representative  
 Zelyan Matthew S. Tibay  
 BSEE-1  
 099558230040



2nd Year Representative  
 Leevan Joey U. Tandan  
 BSEE-2  
 09464566734



3rd Year Representative  
 Jessa D. Gabion  
 BSEE-3  
 09106529018



4th Year Representative  
 Edgar Darren E. Elan  
 BSEE-5  
 0930 7890151



5th Year Representative  
 Inez Erel B. Bonilla  
 BSEE-5  
 09307890151



Adviser  
 Engr. Conrado B. Delosa Jr.  
 09985694470



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## INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERING STUDENTS OFFICERS A.Y. 2019-2020

