SURIGAO STATE COLLEGE OF TECHNOLOGY



S.1.1 acquisition of knowledge and theories based on the field of specialization/discipline;



Bocoment Code No FM-SSCT-ACAD-015
Revision No 0
Effective Date 01-Jan-19
Page No 1 of 1

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

First Semester 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
hys 122	Physics for Engineers	3	1	4	Math 111; Co-requisite Math 112
GE Entrep	The Entrepreneural 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
E 2	Rhytmic Activities	2	0	2	None
STP 2	National Service Training Program 2	3	0	3	NSTP 1
	Sub- Total	25	2	27	

First Semester First Semester								
Course Code Descriptive Title Lec Lab Units Pre-requisi								
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
₹ 202	Electrical Circuits 2	3	1	4	EE 201
CE 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	IECE 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		ECE 371
EE 304	Electrical Apparatus and Devices	2	1	-	EE 202
EE 303	Electrical Machines 2	3	1	-	IEE 302
ES 301	Basic Occupational Safety and Health	3	0	-	
ES 138	Technopreneurship	2	0		3rd year standing
EE 305	EE Law, Codes, and Professional Ethics	3	0	3	4 th year standing
ECE 357	Feedback and Control Systems	-2	0	2	GE Eth
GE ConWorld	Contemporary World	3	0	3	Math 161; ECE 201
OL CONVONG		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			

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	4th 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	4th year standing		
	Sub- Total	15	5	20			

Course Code	Descriptive Title	Lec	Lab	Units	Pre-requisite
EE 431	Power Systems Analysis	3	1	4	EE 401
EE 432	Fundamentals of Power Plant Engineering Design	0	1	1	Co-requisite: EE 431
EE 433	Distribution Systems and Substation Design	2	1	3	Co-requisite: EE 431
EE 482	Power Systems - Distribution System and Supply	3	0	3	EE 481
EE 422	Research Project or Capstone Design Project for EE	0	1	1	ES 142
ES 484	Seminars/Colloquia & Field Trips	0	1	1	4 th year standing
IC 106	EE REVIEW 2	2	0	2	4th year standing
GE Hist	Readings in Philippine History	3	0		NONE
	Sub- Total	13	5	18	
	Grand Total	165	264	1 313	

KS	SUMMARY		Units
1. 7	echnical Courses		
A.	Mathematics		16 **
В.	Natural/Physical Sciences		8
C.	Basic Engineering Sciences		11
D.	Allied Courses		39
E.	Professional Courses		52
F. 1	Electives		6
		Sub-Total	132
II. I	Non-Technical Courses		
A.	GE Core Courses		24
B.	Electives		9
C.	Mandated Courses		3
D.	Physical Education		8
E.	NSTP		6
		Sub-Total	50
111.	Institutional Courses		
A.	Introduction to Electrical Engineering		2
В.	EE Review 1		2
7.	EE Review 2		2
1		Sub-Total	- 6
		Grand Total	188

Prepared by:

ENGR. JOSELITO BALDAPAN, PEE

Program Chair, BSEE

Noted by:/

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

Approved by

Checked and Reviewed by:

ENGR. ROBERT R. BACARRO, MECE, MBA

Dean, CEIT

Recommended by:

EMMYLOU A. BORJA, EdD VP for Academid Affairs

GREGORIO Z. GAMBOA, JR., EdD

College President

CHED CARAGA BUTUANCITY

CONTENT



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



CERTIFICATE NUMBER: AJA19-0225

EXCERPT FROM THE MINUTES OF THE 83rd REGULAR BOARD OF TRUSTEES MEETING HELD ON DECEMBER 20, 2019 AT THE CONFERENCE ROOM, PARK INN BY RADISSON, DAVAO CITY

After the discussion, the Board passed:

Resolution No. 126 S. 2019

Approving the Revised Curriculum for Undergraduate Programs AY 2019-2020 Subject to **Further Revision**

APPROVED

Certified true and correct:

ROWENA A PLANDO, PhD Board Secretary V

Attested:

GREGORIO Z. GAMBOA R. EdD

Vice Chair, SSCT-BOT College President

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

Email: surigaostatecollege@yahoo.com URL: sscl.edu.ph



OFFICE OF THE PRESIDENT COMMISSION ON HIGHER EDUCATION

CARAGA ADMINISTRATIVE REGION

December 18, 2019

Surigao State Golege di Technology Narciso Street. Surigao City

DEC 18 2019

Dear Dr. Gamboa

Greetings from CHED Caragal

This is to respectfully return to you the following CHED-noted curricula submitted to this Office:

- Bachelor of Science in Tourism Management
- Bachelor of Science in Hospitality Management Bachelor of Technical-Vocational Teacher Education Major in Electrical Technology Bachelor of Technical-Vocational Teacher Education 3.
- Major in Food and Service Management
- Bachelor of Elementary Education

- Bachelor of Elementary Education
 Bachelor of Secondary Education Major in Mathematics
 Bachelor of Secondary Education Major in Filipino
 Bachelor of Secondary Education Major in English
 Bachelor of Secondary Education Major in Sciences
 Bachelor of Physical Education

- Bachelor of Arts in English Language
 Bachelor of Science in Information Technology
 Bachelor of Science in Information System

- 13. Bachelor of Science in Information System
 14. Bachelor of Science in Computer Science
 15. Bachelor of Science in Marine Biology
 17. Bachelor of Science in Environmental Science
 18. Bachelor of Science in Agriforestry
 19. Bachelor of Science in Agriforestry
 19. Bachelor of Science in Agrifullural Technology
 20. Bachelor of Science in Industrial Technology Major in Electrical Technology
 21. Bachelor of Science in Industrial Technology Major in Heating, Ventilation, Air Conditioning and Refrigeration Technology
 22. Bachelor of Science in Industrial Technology Major in Architectural Drafting Technology
 23. Bachelor of Science in Industrial Technology Major in Electronics Technology
 24. Bachelor of Science in Industrial Technology Major in Electronics Technology
 25. Bachelor of Science in Industrial Technology Major in Welding and Fabrication Technology
 26. Bachelor of Science in Industrial Technology Major in Mechanical Technology
 27. Bachelor of Science in Industrial Technology Major in Automotive Technology
 28. Bachelor of Science in Industrial Technology Major in Automotive Technology
 29. Bachelor of Science in Electronics Engineering



OFFICE OF THE PRESIDENT COMMISSION ON HIGHER EDUCATION

CARAGA ADMINISTRATIVE REGION

- 30. Bachelor of Science in Electrical Engineering
 31. Bachelor of Science in Computer Engineering
 32. Bachelor of Science in Civil Engineering

33. Bachelor of Science in Fisheries

Thank You.

Very truly yours,

LEONIDA'S, CALAGUI, PhD, CESO III Director IV

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

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Minutes of the Joint Academic and Administrative Council Meeting held on April 13, 2018 at the Old College Library, SSCT, Surigao City

I Preliminary Matters

The Joint Administrative and Academic Council Meeting started with a Doxology followed by the singing of the National Anthem though PowerPoint Presentation.

a. Roll Call and Determination Of Quorum

The College President, Dr. Gregorio Z. Gamboa, Jr. personally called the roll.

Dr. Gregorio said that those who logged in in the morning but were not present in the meeting shall be marked absent.

The Secretary then announced that the meeting had a quorum with Ninety-eight (98) Academic and Administrative Council members in attendance out of One Hundred Fifty-seven (157).

b. Call to Order

The Presiding Chair, Dr. Gregorio Z. Gamboa Jr. called the meeting to order at 9:40 A.M.

c. Approval of the Provisional Agenda

The Presiding Chair enumerated the following agenda to be included in the other matters:

A. FISCAL MATTERS

 Request Approval on the Granting of Honorarium to SSCT Journal of Science and Technology Editorial Board Members and Peer Reviewers

B. ACADEMIC MATTERS

List of Candidates for Graduation as of March 2018

C. ADMINISTRATIVE MATTERS

- Request Approval for the Construction/Repair/Rehabilitation of Academic Building (PhP 5,000,000.00)
- Request Approval for the Purchase of Various Equipment Outlay(PhP5, 000,000.00)
- MOA between DOLE, Caraga Regional Office, Butuan City and SSCT

D. OTHER MATTERS (FOR INFORMATION)

- Presentation of Feasibility Study on the Proposed Establishment of Extension-SSCT, City Campus in Claver, Surigao del Norte
- MCU between SSCT and Komisyon sa Wikang Filipino on the Proposed Establishment of Sentro ng Wika at Kuitura (SWK)

The College President, Dr. Gregorio Z. Gamboa, Jr. asked the Councils if there are other matters they want to include in the agenda.

The following were:

 Proposed Occupational Safety and Ha 	rard of Policy
Proposed Occupational Salety and Ta	zaid of Folicy
 Implementation of Curricular Program Guidelines of CHED Proponent: Dr. Ronita E. Talingting 	ns based on the New Policies, Standards and
r topoliciti. Dr. Noma E. ramgang	1
 Dr. Roberto C. Buenaflor requested t matters: 	hat the following shall be included in the other
	te School Manual embers of the Academic and Administrative Academic and Administrative Council Meetings
 Information on Disaster Resilience Se Teresita P. Senados 	eminar led by Cagayan State University by Dr.
 Proposed infrastructure Projects by Ar Proponent: Engr. Virne P. Portugues 	dministration
The Councils passed	
Adopting the Agenda for	No. 03 s. 2018 the Joint Administrative and ouncil Meeting
d. Reading of the Previous Minutes	
The College President dispensed t proceeded to the Chair's Privilege.	he reading of the minutes and immediately
	Noted
e. Chair's Privilege	
The College President, Dr. Gregoric Councils of the following developments to with	Z. Gamboa, Jr. was pleased to inform the
 SSCT is now SUC Level III. House Bill 5150 is now a R.A. 11 Philippines signed HB 5150 into la 	010 after the President of the Republic of the w on March 27, 2018
Dr. Gamboa informed the Council me to wit:	mbers that several activities shall be conducted
	aravan with Comm. Prospero de Vera.
 April 25, 2018 –Meeting with the Regional Director, Dr. Maricar R. 	4 SUCs in Caraga with the presence of CHED Casquejo at the Accreditation Center, SSCT,
 Surigao City. May 7-8, 2018-SSCT shall underg with CHED in Siargao. 	go Institutional Sustainability Assessment (ISA)
 May 7-11, 2018-Level III AACCUP 	Accreditation
 September 2018-CHED Caraga Ev 	/aluation for SSCT's University application. e shall visit SSCT for University Accreditation.
	and the second s

	·	Ç	3
118		every member to cooperate and help	in order for
119	SSCT's vision to become a reality.		
120 121		Noted	
122			
123	NEW BUSINESS		
124 125	A. FISCAL MATTERS		
125		of Honorarium to SSCT Journal of §	Science and
127	Technology Editorial Board Member		
128	mm	and Director De Torreite D. Conne	laa
129 130	The proposal was presented by the Re-	earch Director, Dr. Teresita P. Senad	108 .
131	Dr. Roberto C. Buenaflor said that in o	ther SUCs, it is the researcher who s	hall pay the
132	honorarium of the Editorial Board mem	ers and Peer Reviewers.	
133	The Callege Desoldant argument that the	is the Cellage who shall shoulder the	honomier
134 135	The College President answered that it and that the paper shall then be owned		TONO BRIDE
136	and that the paper onthe and the difficu	by all college.	
137	Dr. Gamboa emphasized that the inven	tion shall be owned by the College.	
138		Mated	
139 140		Noted	
141	Mr. Jonas Robert Miranda said that a	MOA shall be made between SSC	T and pee
142	reviewer.		•
143		Noted	
144 145		ROWG	
146	Dr. Mauricio S. Adiaon asked if the rea	earchers from other SUCs etc shall	pay for their
147	paper to be included in the Journal.		. •
148 149	The Callege President anguered use		
150	The College President answered yes.		
151	Mr. Adriano C. Patac explained that t	here shall be incentives if SSCT's J	oumal shal
152	qualify. Further, he said that if the sch		
153 154	papers to be published in the Journal si		1 point shall
155	be earned by the school if 50% of the p	apers published is owned by 55C1.	
156		Noted	
157	A0		
158 159	After a thorough deliberation, the Coun	als passed	
160	Resolut	ion No. 4 s. 2018	
161	Approving the Granting of Hon	orarium to SSCT Journal of Science	e and
162	Technology Editorial Bo	ard Members and Peer Reviewers	
163 164		PPROVED	
165	•	FFROVED	
166	B. ACADEMIC MATTERS		
167 168	. List of Condidates for Conduction		
168 169	 List of Candidates for Graduation as 	or Warch 2018	
170	City Campus		
171	The College Registrar, Ms. Claret	D. Ruaya presented the list of car	ndidates for
172 173	Graduation as of March 2018 in the	City Campus.	
173 174			
175			

candidates for graduation in the City campus. Noted Del Carmen Campus Ms. Maristela Ruaya, Registrar of Del Carmen Campus presented the list of candidates for graduation as of March 2018 in Del Carmen Campus. Ms. Ruaya informed the Councils that there are One Hundred Ninety (190) candidates for graduation as of March 2018 in Del Carmen Campus. Malimono Campus Malimono Campus has One Hundred Six c(108) candidates for graduation as of March 2018. Malimono Campus has One Hundred Six c(108) candidates for graduation as of March 2018. Malimono Campus has One Hundred Six c(108) candidates for graduation as of March 2018. Malimono Campus has One Hundred Six c(108) candidates for graduation as of March 2018. Malimono Campus Malimono Campus Malimono Campus has One Hundred Six c(108) candidates for graduation as of March 2018. Malimono Campus Malimono Campus has One Hundred Six c(108) candidates for graduation as of March 2018 in Mainit Campus. Dr. Buenaflor said to remove the word "tentative" to ensure that they are legitimate candidates for graduation. Noted After the discussion, Dr. Ronita E. Talingting moved for the approval of the list of candidates for graduation and was unanimously seconded. The Councils passed Resolution No. 6 s. 2018 Approving the List of Candidatos for Graduation as of May 2018 Approving the Construction/Repair/Rehabilitation of Academic Building (PhP 5,000,000.00) Request Approval for the Purchase of Various Equipment Outlay(PhP5, 000,000.00) The two proposals were presented by Engr. Vime P. Portugues. The College President, Dr. Gregorio Z. Gamboa, Jr. said that the budget comes from the 10M insertion from Sen. Loren Legarda. After the discussion, the Councils passed Resolution No. 6 s. 2018 Approving the Proposed Construction/Repair/Rehabilitation of Academic Building (PhP 5,000,000.00)	176	Ms. Ruaya disclosed that there are One Thousand Nine Hundred Fifty-five (1955)
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Resolution No. 7 s. 2018 Approving the Proposed Purchase of Various Equipment Outlay (PhP5, 000,000.00)

APPROVED

MOA between DOLE, Caraga Regional Office, Butuan City and SSCT

The College President explained that the purpose of the said MOA between DOLE and SSCT is to establish a school-based Public Employment Service Office in the school.

After the discussion, the Councils passed

Resolution No. 8 s. 2018 Approving the MOA between DOLE, Caraga Regional Office, Butuan City and SSCT

APPROVED

D. OTHER MATTERS (FOR INFORMATION)

Presentation of Feasibility Study on the Proposed Establishment of Extension-SSCT,
 City Campus in Claver, Surigao del Norte

The Vice President for Academic Affairs, Dr. Ronita E. Talingting informed that the proposed establishment if approved shall start in August 2018.

Mr. Charles Ferol presented the result of the Feasibility Study.

The Council said that FS shall include the following: Marketability, Financial Aspect, Technical Aspect, Course Preference Survey, Budgetary Requirements, Operational Requirements or Viability of Operation.

The College President informed the Councils that LGU Claver shall offer an area for the establishment of the school building, building, two (2) million pesos per year and a grandia.

After the discussion, the Councils passed

Resolution No. 09 S. 2018

Endorsing to the Board the Feasibility Study on the Proposed Establishment of Extension-SSCT, City Campus in Claver, Surigao del Norte

APPROVED

 MOU between SSCT and Komisyon sa Wikang Filipino on the Proposed Establishment of Sentro ng Wika at Kuitura (SWK)

The College President, Dr. Gregorio Z. Gamboa, Jr. informed the Council that Sentro ng Wika at Kultura shall be established in SSCT and that SSCT can benefit on the establishment of the same.

Without further discussion, the Councils passed

Resolution No. 10 s. 2018

Approving the Memorandum of Understanding (MOU) between SSCT and Komisyon sa Wikang Filipino on the Proposed Establishment of Sentro ng Wika at Kultura (SWK)

APPROVED

- Proposed Occupational Safety and Hazard of Policy
 - Mr. Manuel Arcon said that there is a need for the College to have an Occupational Safety and Hazard Policy.
 - Dr. Gamboa advised that a committee to review the same shall be created.

After the discussion, the Councils passed

Resolution No. 11 s. 2018 Approving the Creation of a Committee to Review the Proposed Occupational Safety and Hazard of Policy

APPROVED

Implementation of Curricular Programs based on the New Policies, Standards and **Guidelines of CHED**

The Vice President for Academic Affairs, Dr. Ronita E. Talingting informed the Councils that a Curriculum Review was conducted on February 9, 2018 at the Parkway Hotel, Surigao City.

This was attended by CHED Specialists, College Deans, Program Chairs, industry experts, DepEd Representatives, student leaders and parents.

The conduct of the same was in preparation for the new general education curriculum and CHED's framework for outcomes based on the new Policies, Standards and Guidelines to be implemented SY 2018-2019.

After the discussion, the Councils passed

Resolution No. 12 S. 2018 Endorsing to the Board the Proposed implementation of Curricular Programs based on the new Policies, Standards and Guidelines of CHED

APPROVED

- Information on Disaster Resilience Mapping led by Cagayan State University
 - Dr. Teresita P. Senados informed the Councils a Disaster Resilience Mapping for Mission-Critical Infrastructures and Investments of SUCs in the Philippines shall be conducted. The project duration is from March 2018 to February 2020.
 - Dr. Senados said that the same is a collaborative research among 17 HEIs/SUCs led by Cagayan State University-Climate Change Program office and that Caraga is represented by SSCT.

352	The funding agency is the Commission on Higher Education (CHED)-K-12 Program
353	Management Unit under the DARE TO Program
354	An at the star the Annually was and
355	After the discussion, the Councils passed
356	
357	December No. 42 C 2010
358	Resolution No. 13 S. 2018 Approving the Participation of SSCT to the Disaster Resilience Mapping for Mission-
359	Critical Infrastructures and Investments of SUCs in the Philippines
360 361	Cities anison action and anisonance of soos in the Complement
362	APPROVED
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364	Proposed infrastructure Projects by Administration
365	
366	Engr. Virne P. Portugues presented the Proposed Infrastructure by Administration.
367	
368	After the discussion, the Councils passed
369	•
370	Resolution No. 14 S. 2018
371	Approving the Proposed Infrastructure Projects by Administration
372	
373	
374	CITY CAMPUS
375	Improvement of Technology Building (Php3,871,000.00)
376	
377	MAINIT CAMPUS
378	> SSCT Mainit Campus Pathway/Covered Walk (PhP1,500,000.00)
379	Community Outreach Center (PhP 1,000,000.00)
380	> Rehabilitation of 88CT Mainit Campus Road (PhP2,000,000.00)
381	> Rehabilitation of Mango Nursery Propagation Building (PhP800,000.00)
382	> Rehabilitation of Business Affairs Office (PhP600,000.00)
383	> Improvement and Repair of Crop Processing Plant (PhP500,000.00)
384	> Improvement and Repair of Academic Building (PhP3,000,000.00)
385 386	 Improvement and Repair of Swine Production (PhP2,000,000.00) Improvement and Repair of Vermiculture Building (PhP1,600,000.00)
387	 Improvement and Repair of Poultry Building (PhP1,000,000.00)
388	> mithrovement and reban of Fountly Building (File 1,000,000,00)
389	DEL CARMEN CAMPUS
390	> Renovation of Cafeteria and Bakery Building (Php1,268,000.00)
391	> Renovation of Automotive and Electronics Technology Buildin
392	(PhP1,268,000.00)
393	> Renovation of Civil Technology and Supply Office Buildin
394	(PhP1,268,090.00)
395	> Renovation of Drafting and Electrical Technology Building
396	(PhP1,268,000.00)
397	➤ Rehabilitation of iT and Cali Center Building (PhP11,431,000.00)
398	➤ Rehabilitation of SSCT-Mini Hotel (phP19,391,000.00)
399	➤ Improvement of Two (2) Storey Shop Building (PhP31,983,000.00
400	
401	APPROVED
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1	۰	Updates of the previous meeting
3		Dr. Roberto C. Buenaflor said that the Councils need to know about the resolutions
		passed during the previous meeting and updates on the same if it is implemented or
		not.
		Noted
	0	Proposed Amendments of Graduate School Manual
		Dr. Buenaflor asked on the updates on the proposed amendments of the Graduate School Manual.
		The College President said that the same be presented on the next meeting.
		Noted
	0	With regard to non-attendance of Council members during meetings, Dr. Roberto C. Buenaflor proposed for the imposition of fines to those members of the Academic and Administrative Council who will be absent during Academic and Administrative Council Meetings without valid reason.
		The College President commissioned Dr. Elvis P. Patulin for the same.
		Noted
	٧	Nith nothing more to discuss, the meeting was adjourned at 11:25 A.M.
		Certified Correct:
		Gertined Correct.
		(inher
		ROWENA A. PLANDO, PhD
		College and Board Secretary
	Atte	sted:
		-5/0
4		- the
	GRE	GORIO Z. GAMBOA, JR., EdD
	Coll	ege President



SURIGAO STATE COLLEGE OF TECHNOLOGY

Surigao City, Philippines 8400 Tel. Nos. (086) 826-6346; 231-7741 Telefax: (086) 826-6346 Official Website: www.ssct.edu.ph

ACADEMIC COUNCIL MEETING

ATTENDANCE

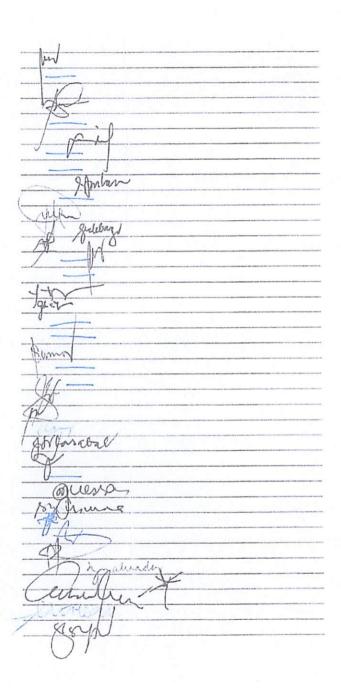
1. Professor VI Buenaflor, Roberto C. 2. Professor II Donoso, Carlos H. 3. Professor I Buot, Nenita S. Posesano, Georgito G. 4. Associate Professor V Borja, Emmylou A. Cordita, Amefiel C. Jabonero, Jhane R. Donoso, Antonette B. Lumintac, Maria Tavita Q. Paglinawan, Esperanza P. Patulin, Elvis P. Talingting, Ronita E. Vernal, Hermogena V. 5. Associate Professor IV Alvarez, Alex E. Besto, Eddie L. Cagas, Unife O. Gonzales, Evelyn AX Senados, Teresita P. Tan, Renee C. 6. Associate Professor III Arcon, Cecilia E. Ebol, Emalina I. Litang, Leonidisa S. Miranda, Jonas Robert L. Ravelo, Lona D.

> Sabejon, Evangeline P. Seniel, Destre A.

7. Associate Professor II 8. Associate Professor I 9. Assistant Professor IV

a. Assistant Professor III

Acero, Je. B. Buenaflor, Elesia B. Dalaygon, Cases D. Ebarsabal, Gideon A. Laid, Roberto Maghuyop, Alicia Z. Patac, Louida P. Sepe, Elsie M. Sunico, Romy Jun A. Tanguihan, Lucille G. Adlaon, Mauricio S. Alaba, Porferio P. Bayang, Eliza E. Espaldon, Alexis P. Gomez, Bernard C. Maglinte, Romana M. Andaluz, Rosanne E. Botoy, Gina C. Caadan, Julius G. Catacutan, Marivel M. Comon, Deny V. Dela Cruz, Romel C. Descarten, Randy O. Divinagracia, Arne M. Docoy, Rudy C. Docoy, Lucihida M. Ebarsabal, Jeanette L. Espaldon, Judita R. Gases, Cecilia C. Guerra, Maria Fe C. Lincuna, Arlene P. Malicay, Leonielyn C. Patac, Adriano V. Reyna, Ritchie A. Salvador, Nelia S. Salvador, Emmanuel R. Talingting, Gavino, Jr. B. Toledo, Teresita L. Arcaya, Rosemarie C.



10. Assistant Professor II

Badiola, F ard A. Besinio, Leopoldo, Jr. G. Buba, Ruel T. Carnicer, Marilou B. Catacutan, Rogelio R. Causing, Pilmore M. Cavite, Iryn E. Chua, Ruel G. Dela Cerna, Monalee A. Delito, Eleanore Mitsu S. Diaz, Annabelle N. Doligol, Teresita C. Echin, Elma C. Felicio, Carmenchita P. Galido, Elsie P. Gomez, Venchita B. Ladia, Alberto D. Menor, Elizabeth S. Nala, Rene A. Nemenzo, Alnie A. Noguerra, Crispin, Jr. P. Perez, Alicia L. Plando, Ireneo Jr. C. Ruaya, Perfecto, Jr. R. Subang, Reynaldo M. Sulima, Rolan A. Ulbis, Maria Fe H. Caba, Ailyn B. Conde, Aurora D. Deniega, Susan S. Escauso, Joey G. Fabroa, Hayde D. Flores, Adelaida C. Gomez, Nilo U. Gumato, Edwin C. Longos, Bonifacio D. Madelo, Aurea M. Magno, Perlita S. Morite, Analyn S.

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11. Assistant Professor I

Mozar, Jt. Ruth D. Quiachon, Marjorie T. Salvador, Donald C. Sinaca, Elsie M. Talavera, Fortunato R. Tiu, Celso S. Villamor, Tita P. Villegas, Marilyn S. Ampater, Tito P. Arcon, Manuel R. Bagayas, Marinette M. Bonotan, George S. Borja, Ely E. Codilla, Lope U. Comandante, Frustouso G. Conversion, Luciano L. Cortina, Leonardo A. Deniega, Avelino A. Dialde, Floria C. Escobal, Edwin C. Escultor, Gemma R. Gingo, Verna L. Mag-usara, Arvin E. Masuhay, Edilmar P. Montejo, Amor C. Navarro, Marlito P. Paredes, Judel C. Paulines, Mignonette M. Portugues, Virne P. Ratunil, Virgilio, Jr. V. Rivas, Rosalyn A. Ruaya, Maristela L. Sal, Jerlou B. Septimo, Teresita T. Sinaca, Mateo E. Yangson, Catherine L. Ylaya, Vrian Jay V.

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ADMINISTRATIVE COUNCIL MEETING

ATTENDANCE

1. VP Academic Affairs Dr. Ronita E. Talingting 2. VP Administration Dr. Gideon A. Ebarsabal 3. VP Research, Development & Extension Dr. Emmylou A. Borja 4. Dean, CIT Dr. Elesia B. Buenaflor 5. Dean, Arts & Sciences Dr. Elvis P. Patulin 6. Dean, Teacher Education Dr. Annabelle N. Diaz 7. Dean, Engineering & IT Engr. Alexis P. Espaldon 8. Dean, Graduate Studies Dr. Ronita E. Talingting 9. Planning Officer Dr. Mauricio S. Adlaon 10. In - Charge, Accreditation Ms. Amor C. Montejo 11. Guidance Counselor Ms. Quincy C. Dumanig/Clarence D. Enoy 12. Director, Student Affairs Ms. Maria Fe C. Guerra 13. College Registrar Ms. Claret D. Ruaya 14. College Librarian Ms. Ivy B. Mabanto/Lorena Badiola 15. College Nurse Ms. Christine Meg M. Villegas 16. Director, Research and Development Dr. Teresita P. Senados 17. Director, Extension Services Engr. Evangeline P. Sabejon 18. Director, Mainit Campus Dr. Hermogena V. Vernal 19. Director, Del Carmen Campus Dr. Romy Jun A. Sunico 20. Director, Malimono Campus Dr. Eddie L. Besto 21. Director, City Campus Dr. Carlos H. Donoso 22. Director, Quality Management Dr. Roberto C. Buenaflor 23. Director, Ancillary Services Mr. Donald C. Salvador 24. Director, Special Programs(incl TCC, TESDA) Dr. Georgito G. Posesano 25. Director, Sports & Wellness, Culture & Arts: Ms. Eleanore Mitsu S. Delito 26. NSTP Director Mr. Ireneo C. Plando, Jr.

DOM 27. Coordinator, Athletic Mr. Nonitc Irdita 28. Placement Coordinator Ms. Graciel lannie C. Reuyan 29. Chief Administrative Officer - Des. Felipe T. Cacho 30. College/ Board Secretary Dr. Rowena A. Plando 31. Cashier Ms. Lowela E. Paqueo 32. Budget Officer III Mr. Felipe T. Cacho 33. Accountant III Ms. Gay Rose M. Seguera 34.HRMO Ms. Ellen Divinagracia - Detalo achum 35. Supply Officer III Ms. Elsa C. Pelicano 36. Records Officer III 37. Resident Engineer Engr. Virne P. Portugues Ms. Marjorie T. Quiachon 38. FedFA President 39. SSG President/ Federated Pres. Mr. Jeoffrey L. Gatela 40. K12 Focal Ms. Joewaren R. Sulima 41. JEEP Coordinator Ms. Irene L. Cavite 42. SFAU Coordinator Matt B. Sinaca Newly Designated College Officials ENGR. LEVI A. CORVERA -In-Charge, EDP/MIS MR. IRENEO C. PLANDO, JR. - In-Charge, Safety and Security MS. HANNA T. PALMEJAR - In-Charge, Institutional Quality Assurance ENGR. RITCHIE A. REYNA - Focal Person, International Organization for Standardization MR. MANUEL R. ARCON - Focal Person, Occupational Safety, Health and Hazard ENGR. VIRNE PORTUGUES - Building Maintenance Officer ARCH. MARLON C. SOLLOSO - Ground Maintenance Officer DR. ARNE M. DIVINAGRACIA - Electrical Maintenance Officer MR. LEONARDO A. CORTINA - Waterworks Maintenance Officer MR. AMELITO A. SUNGAHID - Air-Conditioning Maintenance Officer MR. JONAS ROBERT L. MIRANDA - In-Charge, Alumni Affairs Office MS. EDEN GLIFF P. SEBAG - In-Charge, Student Organizations DR. EMMYLOU A. BORJA - In-Charge, GAD, PWD MR. ADRIANO P. PATAC, JR. - Innovation Technology Support Officer MS. MARIA FE H. ULBIS - Food Services Officer MR. EMMANUEL R. SALVADOR - Focal Person, Disaster Risk Reduction Management Office
Mr. EMMANUEL R. SALVADOR - Focal Person, Disaster Risk Reduction Management Office Ms. Emily L. Plaza - audore Charles Ms. Leonora A. Santingo ADA-3



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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

SSCT Quality Policy

Service-Oriented

Socially Responsive

Committed

Transformational

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

	Mission			
Program Educational Objectives (PEO)	а	b	С	
EE-PEO1. Demonstrate professionalism in electrical engineering and apply professional ethics thru communication and collaboration.	1	1	1	
EE-PEO2. Use appropriate techniques, resources, and modern tools necessary for analysis, design, and modeling of complex electrical systems	1	1	1	
EE-PEO3. Plan, lead, and implement designated tasks, interact with other engineering professionals, and take leadership roles in electrical engineering organization.	1	/	/	
EE-PEO4. Engage in lifelong learning able to discover new opportunities for continuing personal and professional development in electrical engineering	1	/	1	

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,	1	1	1	1	



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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-POI. Demonstrate knowledge and understanding of engineering and

Course Description

DACUM Main Duties (DMD)

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.

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

projects in multidisciplinary environments

EE-DMD5. Electrical Researchers, Professor and Faculty

management principles as a member and/or leader in a team to manage

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

Program Outcome (PO) /	Course Outcomes (CO)	Assessment Task (CO-AT)	DACUM Links					
Level			1	2	3	4	5	



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knowledge and

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EE-POc. Design a	EE 121 – CO1: The	CO – AT1: Students conduct	1	1		1	1
system, component,	students are able to use	oral report thru online in					
or process to meet	the different theories and	energy demands					
desired needs within	techniques in forecasting						
realistic constraints	energy demand (EE-POf.)	Criteria – Topic content,					
such as economic,		presentation					
environmental, social,	EE 121 – CO2: The	Total Baintas 400 mainta					
political, ethical,	students will be able to use	Total Points: 100 points					
health and safety,	logical thinking in analyzing energy demand data						
manufacturability, and sustainability, in	through forecasting (EE-	CO – AT2: Students create					
accordance with	POf., EE-POg.)	project design computing		1	1		
standards.	, · - g.,	samples of energy demand					
Enablina	EE 121 - CO3: The						
Enabling	students as a team will be	Criteria – creativity,					
	able to discuss and explain	functionality, delivery					
EE-POf. Recognize	the concepts used in						
ethical and	energy demand forecasting (EE-POi., EE-POf.)	CO – AT3: Students calculate					
professional	(EE-POI., EE-POI.)	problem sets on electrical					
responsibilities in		energy supply and demand.	1	1	1	1	1
engineering practice							
Demonstrate		Criteria – 70% correct					
		answers and solutions					
EE DO		Total Points: 100 points					
EE-POg. Communicate		Total Folitis. 100 points					
effectively with a							
range of audiences							
Enabling							
Litability							
EE-POi. Recognize							
the need for additional							



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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

		Activities (TLA)	(ILO-AT)				
ION ON THE	1 hr.	Readings on SSCT Student Handbook			SSCT Student Handbook		
	ON ON THE		Student Handbook	Student Handbook	Student Handbook	ION ON THE Readings on SSCT Student Handbook Student Handbook	PON ON THE Readings on SSCT Student Handbook 1 hr. Student Handbook



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. 0								
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			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	course policies. Discussion via Google Meet Synchronous Learning Module 1 Asynchronous	Oral discussion/partic ipation 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	



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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 –	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	



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Demand(EE 121 – CO1)								
		MI	IDTERM EXAMINATION	ON – 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)	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	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 – ILO14: Calculate forecasting errors (EE 121 – CO2) EE 121 – ILO15: Explain the importance of errors in forecasting (EE 121 – CO3)	Forecasting 4.6 Forecasting errors							
EE 121 – ILO16: Forecast energy demand data using the different time series forecasting techniques (EE 121 – CO1)								
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/presentati on thru online on auto regression	70% of the students shall have a	Modules, e- books,	Core Value: Transformatio nal	



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	analysis (EE 121 – CO3)	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	
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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:



SURIGAO STATE COLLEGE OF TLUHNOLOGY

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Criteria	<u>a</u>	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:

 $\frac{\textit{Midterm Grade} + \textit{Final Grade}}{2} = Average \; Grade$

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.

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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.

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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. CONRAI INSTRUCTOR II	DO B. DELOSA JR	<u>ENGI</u>	ked and reviewed by: R. VICENTE Z. DELANTE, Man Chair, BSEE	lEng'g	
Date: AVG 9	204	Date:	AUG 9, 2021		
Noted by:	wry/	Reco	mmended by:	Approve	d by:
ENGR. ROBERT Dean, COLLEGE	R. BACARRO, MECE, MBA		TA E. TALINGTING, PhD ous Director		OU A. BORJA, EdD cademic Affairs
Date: Avg 9	1 201	Date:	AUG 10, 2021	Date:/	40ti 10, ~01



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STUDENTS WHO RECEIVED THE SYLLABUS

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

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



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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 311 Industrial Electronics

Course Credit: 4.0 units (108 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

SSCT Quality Policy

Service-Oriented

Socially Responsive

Committed

Transformational

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

		Mission		
Program Educational Objectives (PEO)	а	b	С	
EE-PEO1. Demonstrate professionalism in electrical engineering and apply professional ethics thru communication and collaboration.	1	1	1	
EE-PEO2. Use appropriate techniques, resources, and modern tools necessary for analysis, design, and modeling of complex electrical systems	1	1	1	
EE-PEO3. Plan, lead, and implement designated tasks, interact with other engineering professionals, and take leadership roles in electrical engineering organization.	1	1	1	
EE-PEO4. Engage in lifelong learning able to discover new opportunities for continuing personal and professional development in electrical engineering	1	/	1	

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

		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	1	1	1	/
EE-POc. Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical,				



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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	1	1	1	/
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-POI. 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

DACUM Main Duties (DMD)

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.

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)

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Program Outcome (PO) /	Course Outcomes (CO)	Assessment Task (CO-AT)		D/	ACUM Li	nks	
Level			1	2	3	4	5
EE-POb. Develop and conduct appropriate experimentation, analyze and interpret data	EE 311- CO1: Identify various electronic power controls (EE-POb, EE-POe)	CO-AT1: Students conduct electronic experiments. These experiments serve as a group activity where they will analyze and interpret data.	1	1			1
Enabling EE-POe. Identify,	EE 311- CO2: Describe how they are designed and their applications (EE-POb, EE-POg)	Criteria – Functionality and lab report					
formulate, and solve	(EE-POB, EE-POg)	Total Points: 100 points					
complex problems in electrical engineering		CO-AT2: Students calculate sets of electronic problems		1	1		
Enabling		using the electronic circuit theory concepts.					
EE-POg. Communicate		Criteria – 70% correct answers and solutions					
effectively with a range of audiences		Total Points: 100 points					
Introductory		CO-AT3: Students create a group project and present them in the class.	1	/	1	1	1
		Criteria – creativity, functionality, delivery					
		Total Points: 100 points					

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

Course Outcomes (CO)	Intended Learning Outcomes (ILO)
EE 311- CO1: Identify various electronic power controls (EE-POb, EE-POe)	EE 311 – ILO1: Identify the different types of filter circuits used in power supply. (EE 311-CO1)
EE 311- CO2: Describe how they are designed	



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and their applications (EE-POb, EE-POg)	EE 311 – ILO2: Determine the functions, operations and applications of a filtered power supply. (EE 311-CO1)
	EE 311 – ILO3: Develop skills in analyzing the current path in a power supply (EE 311-CO2)
	EE 311 – ILO4: Identify the different types of voltage multipliers. (EE 311-CO1)
	EE 311 – ILO5: Describe how each type operates and its characteristics (EE 311-CO2)
	EE 311 – ILO6: Identify different types of voltage regulators and determine its operations and applications (EE 311-CO1)
	EE 311 – ILO7: Identify the different types of polyphase rectifiers. (EE 311-CO1)
	EE 311 – ILO8: Explain and analyze the operation of a half-wave polyphase rectifier and full-wave polyphase rectifiers (EE 311-CO2)
	EE 311 – ILO9: Describe the characteristics and operations of a SCR, UJT, PUT, TRIAC's, DIAC's and other thyristors (EE 311-CO2)
	EE 311 – ILO10: Identify the different types of optoelectronics devices and Sensors (EE 311-CO1)
	EE 311 – ILO11: Identify the different types of transducers and its characteristics (EE 311-CO1)
	EE 311 – ILO12: Determine the types of input/output transducers and its applications. (EE 311-CO2)



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	EE 311 – ILO13: Understand Pneumatics and Electro- pneumatics as the foundation of PLC and its importance in industry (EE 311-CO1)
	EE 311 – ILO14: Acquire skills in PLC ladder diagramming (EE 311-CO2)
7	EE 311 – ILO15: Understand the concepts of Robot and its usefulness in automation (EE 311-CO1)
	EE 311 – ILO16: Identify the different mechanical configuration of industrial robots (EE 311-CO1)
	EE 311 – ILO17: Describe the operation of different types of industrial robots.(EE 311-CO2)

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		,
Analyze the syllabus by looking into the ILOs,			Instructor will provide a course outline reflecting			Syllabus		



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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		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 311 – ILO1: Identify the different types of filter circuits used in power supply. (EE 311-CO1) EE 311 – ILO2: Determine the functions, operations and applications of a filtered power supply. (EE 311-CO1) EE 311 – ILO3: Develop skills in analyzing the current path in a power	1. FILTERED POWER SUPPLY	7hrs	Discussion via Google Meet Synchronous Learning Module 1 Asynchronous	Identification quiz on the types of filter cicuits	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 different types of filter circuits	
supply (EE 311-CO2) EE 311 – ILO4: Identify the different types of voltage multipliers. (EE 311-CO1) EE 311 – ILO5: Describe how each type operates and its	2. VOLTAGE MULTIPLIERS	4hrs	Discussion via Google Meet and video viewing Synchronous Learning Module 2 Asynchronous	Oral report/presentati on voltage multipliers	70% of the students shall have a rating of at least 3.0	PowerPoint presentation on voltage multipliers and its characteristic s	Core Value: Committed Sub-Value: Determined in learning voltage multipliers	



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characteristics (EE 311-CO2)								
EE 311 – ILO6: Identify different types of voltage regulators and determine its operations and applications (EE 311-CO1)	3. VOLTAGE REGULATORS	4hrs	Discussion via Google Meet and video viewing Synchronous Learning Module 3 Asynchronous	Oral report/presentati on thru online in voltage regulators	70% of the students shall have a rating of at least 3.0	PowerPoint presentation in voltage regulators and its operations	Core Value: Committed Sub-Value: Dedicated in voltage regulators	
EE 311 – ILO7: Identify the different types of polyphase rectifiers. (EE 311-CO1) EE 311 – ILO8: Explain and analyze the operation of a half-wave polyphase rectifier and full-wave polyphase rectifiers (EE 311-CO2)	4. POLYPHASE RECTIFIERS	4hrs	Discussion via Google Meet and video viewing Synchronous Learning Module 4 Asynchronous	Q & A in different types of rectifier and its operations	70% of the students shall have a rating of at least 3.0	Videos online, modules, e- books,	Core Value: Transformatio nal Sub-Value: Adaptive in learning and solving rectifiers	
EE 311 – ILO9: Describe the characteristics and operations of a SCR, UJT, PUT, TRIAC's, DIAC's and other thyristors (EE 311-CO2)	5.THYRISTORS AND OTHER CONTROL DEVICES	4hrs	Discussion via Google Meet and video viewing Synchronous Learning Module 4 Asynchronous	Oral report/presentati on thru online on thyristors	70% of the students shall have a rating of at least 3.0	Videos online, modules, e- books,	Core Value: Transformatio nal Sub-Value: Adaptive in learning types of thyristors	
		M	IIDTERM EXAMINATION	ON – 2.0 Hrs.				
EE 311 – ILO10: Identify the different types of optoelectronics	6. OPTOELECTRONIC DEVICES AND SENSORS	6hrs	Discussion via Google Meet and video viewing	Oral report/presentati on thru online on	70% of the students shall have a	Videos online, modules, e-	Core Value: Committed Sub-Value:	



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devices and Sensors (EE 311-CO1)			Learning Module 5 Asynchronous	devices and sensors	rating of at least 3.0		Perseverant in learning optoelectronic devices and sensors	
EE 311 – ILO11: Identify the different types of transducers and its characteristics (EE 311-CO1) EE 311 – ILO12: Determine the types of input/output transducers and its applications. (EE 311-CO2)	7. TRANSDUCERS	6hrs	Discussion via Google Meet Synchronous Learning Module 7 Asynchronous	Oral report/presentati on thru online on transducers	70% of the students shall have a rating of at least 3.0	Modules, e- books	Core Value: Committed Sub-Value: Perseverant in learning transducers	
EE 311 – ILO13: Understand Pneumatics and Electro-pneumatics as the foundation of PLC and its importance in industry (EE 311- CO1) EE 311 – ILO14: Acquire skills in PLC ladder diagramming (EE 311-CO2)	8. INTERFACING TECHNIQUE 8.1 Pneumatics 8.2 Electro-Pneumatics	6hrs	Discussion via Google Meet Synchronous Learning Module 7 Asynchronous	Laboratory experiment thru simulation of PLC	70% of the students shall have a rating of at least 3.0	Modules, e- books, Manuals	Core Value: Committed Sub-Value: Perseverant in programming plc ladder circuit	
EE 311 – ILO15: Understand the concepts of Robot and its usefulness in automation (EE 311- CO1)	9. INTRODUCTION TO ROBOTICS	6hrs	Discussion via Google Meet Synchronous Learning Module 7 Asynchronous	Oral report/presentati on thru online on Robotics	70% of the students shall have a rating of at least 3.0	Modules, e- books, Manuals	Core Value: Committed Sub-Value: Determined in learning robotics	



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1 continues a character the death						
EE 311 – ILO16: Identify the different						
mechanical configuration of			2- 1			
industrial robots (EE 311-CO1)					N.	
EE 311 – ILO17:						
Describe the operation of different types of						
industrial robots.(EE 311-CO2)						
	FINAL EXAMINATION - 3.0 Hrs.					

References:

Textbooks

- V Floyd, Thomas L. (2012) Electronic Devices Electron Flow Version
- Boylestad, R. and Nashelsky, L. (201), Electronic Devices and Circuit Theory

Course Requirements:

- Laboratory Reports (CO-AT1)
- 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%



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Grade Computation: $\frac{M}{2}$

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

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.

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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

DELOSA JR			
Prepared by: ENGR. CONRADO B. DELOSA JR INSTRUCTOR II	ENGR	ed and reviewed by: . VICENTE Z. DELANTE, MEnum Chair, BSEE	ng'g
Date: AUG 9,224	Date:	AUG 9, 2021	
Noted by: ENGR. ROBERT R. BACARRO, MECE, MBA Dean, COLLEGE	RONI	nmended by: TA E. TALINGTING, PhD us Director	Approved by: EMMYLOU A. BORJA, EdD VP for Academid Affairs
Date: AUS 9,24	Date:	AVE (0, 227)	Date: Kus 15, wi



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STUDENTS WHO RECEIVED THE SYLLABUS

Syllabus in EE 311 - INDUSTRIAL ELECTRONICS <u>First</u> Semester, A.Y <u>2021 – 2022</u>

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