



Republic of the Philippines
SOUTHERN LUZON STATE UNIVERSITY
Lucban, Quezon

CERTIFICATION

This is to certify that **Associate Professor RENATO R. MAALIW III** has been the **lead** in the revision process of the academic program detailed below:

Program Name	Type of Program	Board Approval	Academic Year Implemented	Contribution
Bachelor of Science in Computer Engineering	Revised Program	BOR Res. No. 05, s. 2021	2021-2022	<ul style="list-style-type: none">- Supervision on the revision process- Curriculum mapping and contributes in revising the curriculum.- Setting/revising of learning objectives and learning outcomes including preparation of course syllabus.- Revising the curriculum based on the comments and suggestion of the curriculum committee.- Presentation of the revised curriculum to different committee and to the board for approval

This certification is issued upon the request of Dr. Maaliw for faculty position reclassification (DBM-CHED Joint Circular No. 3, series of 2022) use only.

GONDELINA A. RADOVAN, PhD
Vice President for Academic Affairs



Republic of the Philippines
SOUTHERN LUZON STATE UNIVERSITY
Lucban, Quezon

AN EXCERPT FROM THE MINUTES OF THE COMBINED THIRD (142ND)
AND FOURTH (143RD) QUARTER REGULAR MEETING OF THE
SOUTHERN LUZON STATE UNIVERSITY BOARD OF REGENTS
HELD ON 21 JANUARY 2021, 10:00 A.M. AT THE CONFERENCE ROOM,
ADMINISTRATION BUILDING, LAGUNA STATE POLYTECHNIC UNIVERSITY,
SAN PABLO CITY, LAGUNA

BOARD RESOLUTION NO. 05, Series of 2021

**A RESOLUTION APPROVING THE ENHANCED CURRICULUM OF THE BACHELOR
OF SCIENCE IN COMPUTER ENGINEERING PROGRAM**

WHEREAS, pursuant to CHED Memorandum Order No. 46, s. 2012 entitled "Policy Standards to Enhance Quality Assurance (QA) in Philippine Higher Education," all Higher Education Institutions (HEIs) are mandated to shift their programs to an outcome-based approach;

WHEREAS, the Commission on Higher Education adopted CMO No. 87, s. 2017, entitled "Policies, Standards and Guidelines for Bachelor of Science in Computer Engineering" in recognition of outcomes-based education;

WHEREAS, the College of Engineering enhanced the curriculum of BS Computer Engineering following the above-cited CMO;

WHEREAS, the University Academic Council, by virtue of its Resolution No. 156, s. 2018 endorsed for approval of the Board of Regents the enhanced curriculum of the BS Computer Engineering;

WHEREAS, the Board Academic Committee favorably endorsed to the Board of Regents the enhanced curriculum of the Bachelor of Science in Computer Engineering through BOR Academic Committee Resolution No. 05, s. 2021;

NOW, THEREFORE, BE IT RESOLVED, AS IT IS HEREBY RESOLVED, that upon the recommendation of the Academic Committee, the Board of Regents hereby approved the enhanced curriculum of the Bachelor of Science in Computer Engineering program.

ADOPTED, this 21st day of January 2021 at the Laguna State Polytechnic University, San Pablo City, Laguna.

Certified true and correct:


AURORA L. SUMAGUE
Board Secretary V

Attested:


DORACIE B. ZOLETA-NANTES, PhD
Vice Chair, SLSU Board of Regents and
President, SLSU



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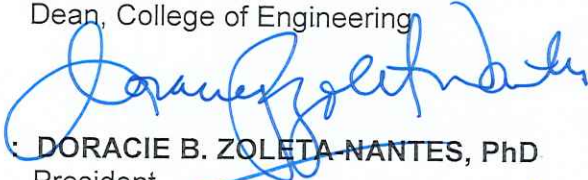


OFFICE OF THE PRESIDENT

MEMORANDUM

No. 17, s. 2021

TO : DR. RENATO R. MAALIW III
Dean, College of Engineering

FROM :  DORACIE B. ZOLETA NANTES, PhD
President

RE : Implementation of the Enhanced Curricula of the College of Engineering

DATE : February 05, 2021

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Please be informed that during the Combined 3rd and 4th Quarter Regular Board Meeting held on January 21, 2021, the Board of Regents approved the enhanced curriculum of the following programs:

- | | |
|------------------------------|--------------------------------|
| 1. BS Civil Engineering | BOR Resolution No. 04, s. 2021 |
| 2. BS Computer Engineering | BOR Resolution No. 05, s. 2021 |
| 3. BS Electrical Engineering | BOR Resolution No. 06, s. 2021 |
| 4. BS Mechanical Engineering | BOR Resolution No. 07, s. 2021 |

Attached herewith are copies of the approved curricula.

For your information and guidance.

cc: Office of the VP for Academic Affairs
Office of the University Registrar
Director for Instruction and Quality Assurance

COLLEGE OF ENGINEERING	Name :
Southern Luzon State University	Student Number :
Lucban, Quezon	Date of Admission :
Bachelor of Science in Computer Engineering	Program Adviser :

FIRST YEAR													
First Semester							Second Semester						
Grad e	Code	Course Title	Le c	La b	Tota l	Prereq	Grad e	Code	Course Title	Le c	La b	Tota l	Prereq
	GEC04	The Contemporary World	3	0	3			GEC02	Understanding the Self	3	0	3	
	GEC05	Mathematics in the Modern World	3	0	3			GEC03	Readings in Philippine History	3	0	3	
	GEC08	Science, Technology & Society	3	0	3			GEC06	Purposive Communication	3	0	3	
	GEC10	Kontekstwalisadong Komunikasyon sa Filipino	3	0	3			GEC11	Filipino sa Iba't Ibang Disiplina	3	0	3	
	MAT04	Calculus 1 (Differential)	3	0	3			MAT05	Calculus 2 (Integral)	3	0	3	MAT04
	CHM01a	Chemistry for Engineers	3	0	3			PHY03	Physics for Engineers	3	0	3	MAT04
	CHM01a L	Chemistry for Engineers (Lab)	0	1	1			PHY03L	Physics for Engineers (Lab)	0	1	1	MAT04
	COE01	Computer Engineering as a Discipline	1	0	1			PEO02	Rhythmic Activities	2	0	2	PEO01
	PEO01	Physical Fitness	2	0	2			NST02	National Service Training Program 2	3	0	3	NST01
	NST01	National Service Training Program 1	3	0	3								
	Semestral Weighted Grade		Total Units		25			Semestral Weighted Grade		Total Units		24	

SECOND YEAR													
First Semester							Second Semester						
Grad e	Code	Course Title	Le c	La b	Tota l	Prereq	Grad e	Code	Course Title	Le c	La b	Tota l	Prereq
	GEC01	The Life and the Works of Rizal	3	0	3			GEC07	Art Appreciation	3	0	3	
	GEC09	Ethics	3	0	3			GEC13	Literature of the Philippines	3	0	3	
	EEN01	Fundamentals of Electrical Circuits	3	0	3	PHY03		MAT08	Engineering Data Analysis	3	0	3	MAT04
	EEN01L	Fundamentals of Electrical Circuits (Lab)	0	1	1	PHY03		ECE01	Fundamentals of Electronic Circuits	3	0	3	EEN01
	CAD01	Computer-Aided Drafting	0	1	1	2nd Yr. Standing		ECE01L	Fundamentals of Electronic Circuits (Lab)	0	1	1	EEN01
	MAT07	Differential Equations	3	0	3	MAT05		CPE04	Numerical Methods	3	0	3	MAT07
	CPE01	Discrete Mathematics	3	0	3	MAT04		CPE05	Object-Oriented Programming	0	2	2	CPE02
	CPE02	Programming and Logic Design	0	2	2	2nd Yr. Standing		CPE06	Online Technologies	2	1	3	CPE02, CPE03
	CPE03	Database Management Systems	2	1	3	2nd Yr. Standing		PEO04	Team Sports/Games	2	0	2	PEO01
	PEO03	Individual/Dual Games/Sports	2	0	2	PEO01							
	Semestral Weighted Grade		Total Units		24			Semestral Weighted Grade		Total Units		23	

THIRD YEAR													
First Semester							Second Semester						
Grad e	Code	Course Title	Le c	La b	Tota l	Prereq	Grad e	Code	Course Title	Le c	La b	Tota l	Prereq
	CPE07	Logic Circuits & Design	3	0	3	ECE01		BES01	Engineering Economics	3	0	3	3rd Yr. Standing
	CPE07L	Logic Circuits & Design (Lab)	0	1	1	ECE01		CPE16	Computer Networks & Security	3	0	3	CPE12
	CPE08	Computer Engineering & Drafting Design	0	1	1	ECE01		CPE16L	Computer Networks & Security (Lab)	0	1	1	CPE12
	CPE09	Introduction to HDL	0	1	1	ECE01, CPE02		CPE17	Operating Systems	2	1	3	CPE05
	CPE10	Fundamentals of Mixed Signals & Sensors	3	0	3	ECE01		CPE18	Software Design	3	0	3	CPE13
	CPE11	Feedback and Control Systems	3	0	3	ECE01, CPE04		CPE18L	Software Design (Lab)	0	1	1	CPE13
	CPE12	Data and Digital Communications	3	0	3	ECE01		CPE19	Microprocessors	3	0	3	CPE07
	CPE13	Data Structures & Algorithms	0	2	2	CPE05		CPE19L	Microprocessors (lab)	0	1	1	CPE07
	CPE14	Basic Occupational Health & Safety	3	0	3	3rd Yr. Standing		CPE20	Methods of Research	2	0	2	MAT08, GEC06, CPE07
	CPE15	Cognate/Professional Course 1	2	1	3	3rd Yr. Standing		CPE21	Cognate/Professional Course 2	2	1	3	CPE15
	Semestral Weighted Grade		Total Units		23			Semestral Weighted Grade		Total Units		23	

FOURTH YEAR													
First Semester							Second Semester						
Grad e	Code	Course Title	Le c	La b	Tota l	Prereq	Grad e	Code	Course Title	Le c	La b	Tota l	Prereq
	BES04	Technopreneurship 101	3	0	3	4th Yr. Standing		CPE29	Seminars and Field Trips	0	1	1	4th Yr. Standing
	CPE22	Digital Signal Processing	3	0	3	CPE11		CPE30	CpE Practice and Design 2	0	2	2	CPE25
	CPE22L	Digital Signal Processing (Lab)	0	1	1	CPE11		OJT	On-the-Job Training (240 hrs)	3	0	3	4th Yr. Standing
	CPE23	Computer Architecture & Organization	3	0	3	CPE19							
	CPE23L	Computer Architecture & Organization (Lab)	0	1	1	CPE19							
	CPE24	Embedded Systems	3	0	3	CPE19							
	CPE24L	Embedded Systems (Lab)	0	1	1	CPE19							
	CPE25	CpE Practice and Design 1	0	1	1	CPE19, CPE20							
	CPE26	CpE Laws and Professional Practice	2	0	2	4th Yr. Standing							
	CPE27	Emerging Technologies in CpE	3	0	3	4th Yr. Standing							
	CPE28	Cognate/Professional Course 3	2	1	3	CPE21							
	Semestral Weighted Grade		Total Units		24			Semestral Weighted Grade		Total Units		6	

Total number of units: 172

Total number of units earned: _____

General Weighted (GWA): _____

Title of Thesis:		
Thesis Adviser:		Date of Graduation:
Program Expiration:	Remarks:	Certified true and correct:

Approved per BOR Resolution No. 5, Series of 2021

Proposed Enhancement of Curriculum **Bachelor of Science in Computer Engineering (Additional Courses)**

Presented by: Renato R. Maaliw III

PROGRAM

BS Computer Engineering>>>

CHED CMO 87, s. 2017: **166 units**
Provisional Curriculum (2018): **166 units**

SLSU: 172 units (proposal)

Additional: 6 units

- **Database Management Systems**

(2 units Lec, 1 unit Lab)

- **Online Technologies**

(2 units Lec, 1 unit Lab)

Program Description:

The Bachelor of Science in Computer Engineering (BSCpE) is a program that embodies the science and technology of design, development, implementation, maintenance and integration of software and hardware components in modern computer systems and computer controlled equipment.

BS Computer Engineering >>>

CHED CMO 87, s. 2017:
Proposed Curriculum
Additional: **6 units**

166 units
172 units

Enhancement Course	Course Description	Justification
Database Management Systems (2 units Lec, 1 unit Lab)	Databases are at the heart of modern industrial application development. In addition, their use extends on many other environments and domains where large amounts of data must be stored for efficient update, retrieval, and analysis.	<p>Database Management Systems (DBMS) are vital components of modern Industry 4.0 systems.</p> <p>Database applications are pervasive and range in size from small in-memory databases to terabytes or even larger in various applications domains.</p> <p>Data is one of the important features of every organization because it helps industries to make decisions based on facts, statistical numbers and trends.</p>

BS Computer Engineering >>>

CHED CMO 87, s. 2017:
Proposed Curriculum
Additional: **6 units**

166 units
172 units

Enhancement Course	Course Description	Justification
Online Technologies (2 units Lec, 1 unit Lab)	The course includes building and management of a data warehouse application in an online environment, with emphasis on data accessibility using different computing devices, from desktop to mobile devices. With the ubiquity of computer systems in modern era, online communication and access is an integral part of modern lives.	<p>Modern Industry 4.0 systems including web-based systems are accessible through the internet. Businesses and industries rely on these sets of technologies to bridge the gap on geographic locations. With the ubiquity of computing devices whether desktop or mobile devices, the need to stay connected is significant.</p> <p>With almost 1 billion websites now on the internet and counting, the need for professional and experts on these field is vastly growing.</p>

Availability of Resources

FACULTY

✓ Complied

1 DIT
2 MEng-CPE
2 BSCpE

LAB

✓ Complied

- Computer Laboratory
- Computer Engineering Laboratory
- Electrical Laboratory
- Electronics Laboratory
- Mechatronics Laboratory

LIBRARY

✓ Complied

- GE books
- Professional books
- Journals
- e-journals subscription
- Magazines

PROGRAM

BS Computer Engineering>>>

CHED CMO 87, s. 2017: **166 units**

SLSU: **172 units (proposal)**

Additional: **6 units**

- Database Management Systems

(2 units Lec, 1 unit Lab)

- Online Technologies

(2 units Lec, 1 unit Lab)

Job Opportunities:

- ✓ Hardware Engineer
- ✓ Software Engineer
- ✓ Database Administrator
- ✓ Network Engineer
- ✓ Network Security Engineer
- ✓ Smart Systems Engineer
- ✓ Computer Vision Engineer
- ✓ Data Engineer
- ✓ Machine Learning Engineer
- ✓ Professor/Technical Trainer