



President Ramon Magsaysay State University
Iba, Zambales
COLLEGE OF ENGINEERING
BACHELOR OF SCIENCE IN COMPUTER ENGINEERING (BSCpE)



2022 Curriculum

Reference: CMO No. 87 series 2017, PSG for the Bachelor of Science in Computer Engineering

FIRST YEAR - 1ST SEMESTER						
Course Code	Course Description	Hours		Units	Pre-requisites	Co-requisites
		Lec	Lab			
EN+	Enhanced Communication Skills	3	0	3	None	None
GEC1	Understanding the Self	3	0	3	None	None
FLN1	Kontekstwalisadong Komunikasyon sa Filipino	3	0	3	None	None
FEBA	Fundamentals of Engineering Mathematics	4	0	4	None	MIN4
MIN4	Calculus I	3	0	3	None	FEBA
CEM1A	Chemistry for Engineers	3	3	4	None	None
CPE111	Computer Engineering as a Discipline	1	0	1	None	None
CPE122	Programming Logic and Design	0	6	2	None	None
PE1	Physical Activities Towards Health and Fitness 1 (PATH-Fit 1) Movement Competency Training	2	0	2	None	None
NSIP1	National Service Training Program	3	0	3	None	None
TOTAL				28		

FIRST YEAR - 2ND SEMESTER						
Course Code	Course Description	Hours		Units	Pre-requisites	Co-requisites
		Lec	Lab			
GEC5	Purposive Communication	3	0	3	EN+	None
GEC4	Mathematics in the Modern World	3	0	3	None	None
GEC2A	Readings in Philippine History (with IP Education)	3	0	3	None	None
PHYS121	Physics for Engineers I	3	3	4	MIN4, FEBA	MIN5
PHYS122	Physics for Engineers II	1	3	2	MIN4, FEBA	MIN5, PHYS121
MIN5	Calculus II	3	0	3	MIN4, FEBA	None
CPE121	Discrete Mathematics	3	0	3	MIN4	None
CPE211	Object Oriented Programming	0	6	2	CPE122	None
PE2	Physical Activities Towards Health and Fitness 2 (PATH-Fit 2) Exercise-based Fitness Activities	2	0	2	PE1	None
NSIP2	National Service Training Program	3	0	3	NSIP1	None
TOTAL				28		

SECOND YEAR - 1ST SEMESTER						
Course Code	Course Description	Hours		Units	Pre-requisites	Co-requisites
		Lec	Lab			
EN1	Scientific and Technical Writing	3	0	3	None	None
GEC3A	The Contemporary World (with Peace Education)	3	0	3	None	None
GEC7	Science, Technology and Society	3	0	3	None	None
MIN6	Differential Equations	3	0	3	MIN5	None
EDA101	Engineering Data Analysis	3	0	3	MIN4	MIN5
EES02	Engineering Economics	3	0	3	2nd Yr Standing	None
ACC211	Fundamentals of Electrical Circuits	3	3	4	PHYS121, PHYS122	None
CPE222	Data Structure and Algorithm	0	6	2	CPE211	None
PE3	Physical Activities Towards Health and Fitness 3 (PATH-Fit 3) Sports (Individual/Dual Sports)	2	0	2	PE1	None
TOTAL				26		

SECOND YEAR - 2ND SEMESTER						
Course Code	Course Description	Hours		Units	Pre-requisites	Co-requisites
		Lec	Lab			
GEC6	Art Appreciation	3	0	3	None	None
GEC8	Ethics	3	0	3	None	None
GEE7	Gender and Society	3	0	3	None	None
EES01	Computer Aided Drafting	0	3	1	2nd Yr Standing	None
EES03A	Engineering Management	3	0	3	2nd Yr Standing	None
ACC221	Fundamentals of Electronic Circuits	3	3	4	ACC211	None
CPE221	Numerical Methods	3	0	3	MIN6	None
CPE311	Software Design	3	3	4	CPE222	None
PE4	Physical Activities Towards Health and Fitness 4 (PATH-Fit 4) Sports (Team Sports)	2	0	2	PE3	None
TOTAL				26		

THIRD YEAR - 1ST SEMESTER						
Course Code	Course Description	Hours		Units	Pre-requisites	Co-requisites
		Lec	Lab			
GEE13A	Environmental Science and Engineering	3	0	3	None	None
CPE415	Operating System	3	0	3	CPE222	None
CPE312	Logic Circuit and Design	3	3	4	ACC221	None
CPE313	Data and Digital Communications	3	0	3	ACC221	None
CPE314	Introduction to HDL	0	3	1	CPE122, ACC221	None
CPE315A	Fundamental of Mixed Signals and Sensors	3	0	3	ACC221	None
CPE316	Computer Engineering Drafting and Design	0	3	1	EES01, ACC221	None
ELEC1	Technical Elective I	2	3	3	3rd Yr Standing	None
TOTAL				21		

THIRD YEAR - 2ND SEMESTER						
Course Code	Course Description	Hours		Units	Pre-requisites	Co-requisites
		Lec	Lab			
GEE15	ASEAN Culture and Studies	3	0	3	None	None
EES04	Technopreneurship 101	3	0	3	3rd Yr Standing	None
CPE321	Method of Research	2	0	2	GEC5, EN1, EDA101, CPE312	None
CPE322	Computer Networks and Security	3	3	4	CPE313	None
CPE323	Microprocessor Systems	3	3	4	CPE312	None
CPE324A	Feedback and Control Systems	3	0	3	CPE221, ACC211	None
ELEC2	Technical Elective II	2	3	3	ELEC1	None
TOTAL				22		

THIRD YEAR - MID YEAR CLASS											
Course Code	Course Description	Hours		Units	Pre-requisites	Co-requisites					
		Lec	Lab								
OJT-QpE	On-the-Job Training	240 hrs		3	3rd Year Standing	None					
TOTAL				3							

FOURTH YEAR - 1ST SEMESTER						
Course Code	Course Description	Hours		Units	Pre-requisites	Co-requisites
		Lec	Lab			
CPE411A	QpE Capstone Project I	0	3	1	CPE321, CPE323	None
CPE412	Embedded System	3	3	4	CPE323	None
CPE413	Computer Architecture and Organization	3	3	4	CPE323	None
CPE414	Digital Signal Processing	3	3	4	CPE324	None
CPE416	QpE Laws and Professional Practices	2	0	2	4th Yr Standing	None
ELEC3	Technical Elective III	2	3	3	ELEC2	None
TOTAL				18		

FOURTH YEAR - 2ND SEMESTER						
Course Code	Course Description	Hours		Units	Pre-requisites	Co-requisites
		Lec	Lab			
CPE421A	QpE Capstone Project II	0	6	2	QpE411A	None
CPE422	Seminars and Field Trips	0	3	1	4th Yr Standing	None
CPE423	Basic Occupational Health and Safety	3	0	3	4th Yr Standing	None
CPE424	Emerging Technologies in QpE	3	0	3	4th Yr Standing	None
GEM	The Life and Works of Rizal	3	0	3	None	None
TOTAL				12		

*The nth Year Standing means that the student shall have completed atleast 75% of the load requirements of the previous year level

TOTAL: 184 UNITS

*Pre-requisite subjects with a grade of INC must be completed first before taking the succeeding subject

Suggested Electives:

Track 1: Microelectronics

Track 2: Software Development

Track 3: System and Network Administration