President Ramon Magsaysay State University
Iba, Zambales
COLLEGE OF ENGINEERING
BACHELOR OF SCIENCE IN COMPUTER ENGINEERING (BSCpE)
2018 Curriculum
Reference: CMO No. 87 series 2017, PSG for the Bachelor of Science in Computer Engineering

FIRST YEAR - 1ST SEMESTER

Course Code	Course Description	Lec.	Lab.	Units	Pre-requisites	Co-requisites
GEC1	Understanding the Self	3	0	3	None	None
GEC4	Mathematics in the Modern World	3	0	3	None	None
GEE4	Living in the IT Era	3	0	3	None	None
FILN1	Kontekstwalisadong Komunikasyon sa Filipino	3	0	3	None	None
MTN1	Calculus I	3	0	3	None	None
Chem1	Chemistry for Engineers	3	3	4	None	None
CpE111	Computer Engineering as a Discipline	1	0	1	None	None
PEN1	Fitness and Recreational Outdoor Activities	2	0	2	None	None
NSTP1	National Service Training Program	3	0	3	None	None
	TOTAL			**25**		

FIRST YEAR - 2ND SEMESTER

Course Code	Course Description	Lec.	Lab.	Units	Pre-requisites	Co-requisites
GEC3	The Contemporary World	3	0	3	None	None
GEC5	Purposive Communication	3	0	3	None	None
FILN2	Sosyedad at Literatura/Panitikang Panlipunan	3	0	3	FILN1	None
MTN2	Calculus II	3	0	3	MTN1	None
CpE121	Discrete Mathematics	3	0	3	MTN1	None
Phys1	Physics for Engineers	3	3	4	None	None
CpE122	Programming Logic and Design	0	6	2	None	None
PEN2	Philippine Folkdances	2	0	2	PEN1	None
NSTP2	National Service Training Program	3	0	3	NSTP1	None
	TOTAL			**26**		

FIRST YEAR - MID-YEAR CLASS (for BRIDGING only)

Course Code	Course Description	Lec.	Lab.	Units	Pre-requisites	Co-requisites
Bridging 101	Fundamentals of Comp. Prog'g Using C/C++ and VB	2	3	3	None	None
Bridging 102	PC Hardware Servicing	2	3	3	None	None
	TOTAL			**6**		

SECOND YEAR - 1ST SEMESTER

Course Code	Course Description	Lec.	Lab.	Units	Pre-requisites	Co-requisites
ENN1	Scientific and Technical Writing	3	0	3	None	None
GEC6	Art Appreciation	3	0	3	None	None
MTN4	Differential Equations	3	0	3	MTN2	None
MTN5	Engineering Data Analysis	3	0	3	MTN1	None
ES 211	Engineering Economics	3	0	3	2nd Year Standing	None
ES 212	Computer Aided Drafting	0	3	1	2nd Year Standing	None
EE 211	Fundamentals of Electrical Circuits	3	3	4	Phys1	None
CpE 211	Object Oriented Programming	0	6	2	CpE122	None
PEN3	Individual and Dual Sports	2	0	2	PEN1	None
	TOTAL			**24**		

SECOND YEAR - 2ND SEMESTER

Course Code	Course Description	Lec.	Lab.	Units	Pre-requisites	Co-requisites
ENN2	Critical Thinking and Composition	3	0	3	ENN1	None
GEC2	Readings in Philippine History	3	0	3	None	None
GEC7	Science, Technology and Society	3	0	3	None	None
GEC8	Ethics	3	0	3	None	None
ES 221	Engineering Management	3	0	3	2nd Year Standing	None
EE 221	Fundamentals of Electronic Circuits	3	3	4	EE 211	None
CpE 221	Numerical Methods	3	0	3	MTN4	None
CpE 222	Data Structure and Algorithm	0	6	2	CpE 211	None
PEN4	Team Sports	2	0	2	PEN1	None
	TOTAL			**26**		

THIRD YEAR - 1ST SEMESTER

Course Code	Course Description	Lec.	Lab.	Units	Pre-requisites	Co-requisites
CpE 311	Software Design	3	3	4	CpE 222	None
CpE 312	Logic Circuit and Design	3	3	4	EE 221	None
CpE 313	Data and Digital Communications	3	0	3	EE 221	None
CpE 314	Introduction to HDL	0	3	1	CpE122, EE 221	None
CpE 315	Feedback and Control Systems	3	0	3	CpE 221, EE 211	None
CpE 316	Fundamental of Mixed Signals and Sensors	3	0	3	EE 221	None
CpE 317	Computer Engineering Drafting and Design	0	3	1	EE 221	None
Elec 1	Technical Elective I			3	3rd Year Standing	None
	TOTAL			**22**		

THIRD YEAR - 2ND SEMESTER

Course Code	Course Description	Lec.	Lab.	Units	Pre-requisites	Co-requisites
GEE7	Gender and Society	3	0	3	None	None
GEE10	Philippine Popular Culture	3	0	3	None	None
ES 321	Technoprenuership	3	0	3	3rd Year Standing	None
CpE 321	Method of Research	2	0	2	GEC 4, MTN 5, CpE 312	None
CpE 322	Computer Networks and Security	3	3	4	CpE 313	None
CpE 323	Microprocessor Systems	3	3	4	CpE 312	None
CpE 324	CpE Laws and Professional Practices	2	0	2	3rd Year Standing	None
Elec 2	Technical Elective II			3	3rd Year Standing	None
	TOTAL			**24**		

THIRD YEAR - MID YEAR CLASS

Course Code	Course Description	Lec.	Lab.	Units	Pre-requisites	Co-requisites
OJT–CpE	On-the-Job Training		240 hrs	3	3rd Year Standing	None
	TOTAL			**3**		

FOURTH YEAR - 1ST SEMESTER

Course Code	Course Description	Lec.	Lab.	Units	Pre-requisites	Co-requisites
GEM	The Life and Works of Rizal	3	0	3	None	None
CpE 411	CpE Practice and Design I	0	3	1	CpE 321, CpE 323	None
CpE 412	Embedded System	3	3	4	CpE 323	None
CpE 413	Computer Architecture and Organization	3	3	4	CpE 323	None
CpE 414	Digital Signal Processing	3	3	4	CpE 315	None
CpE 415	Operating System	3	0	3	CpE 222	None
Elec 3	Technical Elective III			3	4th Year Standing	None
	TOTAL			**22**		

FOURTH YEAR - 2ND SEMESTER

Course Code	Course Description	Lec.	Lab.	Units	Pre-requisites	Co-requisites
CpE 421	CpE Practice and Design II	0	6	2	CpE 411	None
CpE 422	Seminars and Field Trips	0	3	1	4th Year Standing	None
CpE 423	Basic Occupational Health and Safety	3	0	3	4th Year Standing	None
CpE 424	Emerging Technologies in CpE	3	0	3	4th Year Standing	None
	TOTAL			**9**		

*The nth Year Standing means that the student shall have completed atleast 75% of the load requirements of the previous year level
*Pre-requisite subjects with a grade of INC must be completed first before taking the succeeding subject

TOTAL: 187 UNITS

Suggested Electives:
Track 1: Microelectronics   Track 2: Software Development   Track 3: System and Network Administration