Republic of the Philippines

JOSE RIZAL MEMORIAL STATE UNIVERSITY

The Premier University in the Province of Zamboanga del Norte

Gov. Guading Adaza St., Sta. Cruz, Dapitan City
Province of Zamboanga del Norte

Level III

Registration No. 62Q17082
INSTITUTIONAL LEVEL

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

(based on CMO No. 87 s. 2017)

FIRST YEAR

First Semester

Course No.	Descriptive Title	Units LEC	Units LAB	Units	Pre-requisite/ Co-requisite
GE – ST	Science, Technology and Society	3		3	
GE – MM	Mathematics in Modern World	3		3	
Math 111	Engineering Calculus 1	5		5	
Chem 111	Chemistry for Engineers	3	3	4	
CpE 111	Computer Engineering as Discipline	1		1	
CpE 112	Programming Logic & Design		6	2	
RIZAL	Rizal's Life and Works	3		3	
CpE 113	Computer Hardware Fundamentals		3	1	
PE 11	Movement Enhancement (ME)	2		2	
NSTP 1	National Service Training Program 1	3		3	
TOTAL		**27**			

Second Semester

Course No.	Descriptive Title	Units LEC	Units LAB	Units	Pre-requisite/ Co-requisite
GE – CW	Contemporary World	3		3	
GE – US	Understanding the Self	3		3	
Math 121	Engineering Calculus 2	5		5	Math 111
Phy 121	Physics for Engineers	3	3	4	Math 111
Math 122	Engineering Data Analysis	3		3	
CpE 121	Object-Oriented Programming		6	2	CpE 112
CpE 122	Discrete Mathematics	3		3	Math 111
PE 12	Fitness Exercise (FE)	2		2	PE 11
NSTP 2	National Service Training Program 2	3		3	NSTP 1
TOTAL		**28**			

SECOND YEAR

First Semester

Course No.	Descriptive Title	Units LEC	Units LAB	Units	Pre-requisite/ Co-requisite
Math 211	Differential Equations	3		3	Math 121
ES 211	Computer-Aided Drafting		3	1	
CpE 211	Data Structures & Algorithm		6	2	CpE 121
CpE 212	Fundamentals of Database Management	2	3	3	CpE 121
ES 212	Engineering Economics	3		3	
GE – PC	Purposive Communication	3		3	
PE 21	Physical Activities Towards Health & Fitness (PATH-Fit) 1 *(Dance, Sports, Outdoor & Adventure Activities)*	2		2	PE 12
FIL 1	Kontekstwalisadong Komunikasyon sa Filipino	3		3	
ES 213	Fundamentals of Electrical Circuits	3	3	4	Phy 121
TOTAL		**24**			

Second Semester

Course No.	Descriptive Title	Units LEC	Units LAB	Units	Pre-requisite/ Co-requisite
CpE 221	Software Design	3	3	4	CpE 211
CpE 222	Fundamentals of Web Development	2	3	3	CpE 211
ES 221	Fundamentals of Electronic Circuits	3	3	4	ES 213
GE – PH	Readings in Philippine History	3		3	
FIL 2	Filipino sa Iba't Ibang Disiplina	3		3	
GE – AA	Art Appreciation – The Art of Engineering	3		3	
PE 22	Physical Activities Towards Health & Fitness (PATH-Fit) 2 *(Dance, Sports, Outdoor & Adventure Activities)*	2		2	PE 21
TOTAL		**22**			

THIRD YEAR

First Semester

Course No.	Descriptive Title	Units LEC	Units LAB	Units	Pre-requisite/ Co-requisite
CpE 311	Numerical Methods	3	3	4	Math 211
CpE 312	Logic Circuits & Desiign	3	3	4	ES 221
CpE 313	Data & Digital Communication	3		3	ES 221
CpE 314	Operating System	3		3	CpE 211
CpE 315	Introduction to HDL		3	1	CpE121, ES221
CpE 316	Fundamentals of Mixed Signals & Sensors	3		3	ES 211
CpE 317	Computer Engineering Drafting & Design		3	1	ES 211
CpE 318	Embedded System 1	3	3	4	ES 221
GE – E	Engineering Ethics	3		3	3rd Yr. Standing
TOTAL		**26**			

Second Semester

Course No.	Descriptive Title	Units LEC	Units LAB	Units	Pre-requisite/ Co-requisite
CpE 321	Basic Occupational Health & Safety	3		3	3rd Yr. Standing
CpE 322	Computer Networks & Security	3	3	4	CpE 313
CpE 323	Microprocessors	3	3	4	CpE 312
CpE 324	Methods of Research & Writing	3		3	3rd Yr. Standing
CpE 325	Feedback & Control Systems	3		3	CpE 311, ES 213
CpE 327	Embedded Systems 2	3		3	CpE 318
ES 321	Technopreneurship	3		3	3rd Yr. Standing
CpE 326	CpE Laws & Professional Practice	2		2	3rd Yr. Standing
TOTAL		**25**			

SUMMER

Course No.	Descriptive Title	Units LEC	Units LAB	Units	Pre-requisite/Co-requisite
OJT	On-the-Job Training – 240 hours	2	3	3	3rd Year Standing
TOTAL		**3**			

FOURTH YEAR

First Semester

Course No.	Descriptive Title	Units LEC	Units LAB	Units	Pre-requisite/ Co-requisite
CpE 411	Computer Architecture & Organization	3	3	4	CpE 323
CpE 412	Emerging Technologies in CpE	3		3	4th Year Standing
CpE 413	CpE Practice & Design 1		3	1	CpE 324
CpE 414	Digital Signal Processing	3	3	4	CpE 325
CpE 415	Embedded System 3	2	3	3	CpE 327
ES 411	Engineering Management	3		3	
LIT 1	Poetry	3		3	
TOTAL		**21**			

Second Semester

Course No.	Descriptive Title	Units LEC	Units LAB	Units	Pre-requisite/ Co-requisite
CpE 421	CpE Practice & Design 2		6	3	CpE 413
CpE 422	Embedded Systems 4 (IC Fabrication)	2	3	3	CpE 415
CpE 423	Seminars & Field Trips/Tour		3	1	4th Year Standing
TOTAL		**6**			