



BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Effective 1st Semester, SY 2023-2024
Per CMO No. 87, s. 2017 and BOT Referendum No. 16, s. 2023

FIRST YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EM 111	Calculus 1	4	0	4	None	None
NS 111	Chemistry for Engineers	3	1	4	None	None
CPE 111	Computer Engineering as a Discipline	1	0	1	None	None
CPE 112	Programming Logic and Design	0	2	2	None	None
EM 110	Fundamentals of Engineering Mathematics	4	0	4	None	None
GE 4	Mathematics in the Modern World	3	0	3	None	None
GE 1	Understanding the Self	3	0	3	None	None
GE 7	Science, Technology, and Society	3	0	3	None	None
PE 1	Physical Activities toward Health and Fitness 1 (PATHFit 1): Movement Competency Training	2	0	2	None	None
NSTP 1	National Service Training Program 1 (LTS / CWTS / ROTC)	3	0	3	None	None
TOTAL		26	3	29		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EM 122	Calculus 2	4	0	4	EM 111	None
NS 122	Physics for Engineers	3	1	4	EM 111	None
CPE 121	Object Oriented Programming	0	2	2	CPE 112	None
EM 214	Engineering Data Analysis	3	0	3	EM 111	None
CPE 122	Discrete Mathematics	3	0	3	EM 111	None
GE 2	Readings in Philippine History	3	0	3	None	None
PE 2	Physical Activities toward Health and Fitness 2 (PATHFit 2): Exercise-Based Fitness Activities	2	0	2	PE 1	None
NSTP 2	National Service Training Program 2 (LTS / CWTS / ROTC)	3	0	3	NSTP 1	None
TOTAL		21	3	24		



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SECOND YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EM 213	Differential Equation	3	0	3	EM 122	None
BES 121	Engineering Economics	3	0	3	None	None
EE 211	Fundamentals of Electrical Circuits	3	1	4	NS 122	None
CAD 1	Computer-Aided Drafting and Design	0	1	1	2 nd Year Standing	None
GE 6	Art Appreciation	3	0	3	None	None
CPE 211	Data Structure and Algorithm Analysis	0	2	2	CPE 121	None
GE ELECT 1	Environmental Science	3	0	3	None	None
PE 3	Physical Activities toward Health and Fitness 3 (PATHFit 3): Sports	2	0	2	PE 2	None
TOTAL		17	4	21		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
CPE 221	Numerical Methods	3	0	3	EM 213	None
CPE 222	Software Design	3	1	4	CPE 211	None
GE 5	Purposive Communication	3	0	3	None	None
EE 221	Fundamentals of Electronics Circuits	3	1	4	EE 211	None
CPE 223	Web Design and Development	0	2	2	CPE 121	None
GE 3	The Contemporary World	3	0	3	None	None
GE 8	Ethics	3	0	3	None	None
GE ELECT 3	Living in the IT Era	3	0	3	None	None
PE 4	Physical Activities toward Health and Fitness 4 (PATHFit 4): Dance	2	0	2	PE 3	None
TOTAL		23	4	27		



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THIRD YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
CPE 311	Logic Circuits and Design	3	1	4	EE 221	None
CPE 312	Operating System	3	0	3	CPE 211	None
CPE 313	Data and Digital Communications	3	0	3	EE 221	None
CPE 314	Introduction to HDL	0	3	1	CPE 112, EE 221	None
CPE 315	Feedback and Control Systems	3	0	3	CPE 221, EE 211	None
CPE 316	Fundamentals of Mixed Signals and Sensors	3	0	3	EE 221	None
CPE 317	Computer Engineering Drafting and Design	0	3	1	EE 221, CAD 1	None
CPE ELECT 1	CpE Elective 1	0	3	3	3rd Year Standing	None
GE ELECT 8	Reading Visual Art	3	0	3	None	None
TOTAL		18	10	24		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
CPE 321	Basic Occupational Health & Safety	3	0	3	3rd year Standing	None
CPE 322	Computer Networks and Security	3	1	4	CPE 313	None
CPE 323	Microprocessors	3	1	4	CPE 311	None
CPE 324	CpE Laws and Professional Practice	2	0	2	3rd year Standing	None
CPE ELECT 2	CpE Elective 2	0	3	3	CPE ELECT 1	None
CPE 325	Emerging Technologies in CpE	3	0	3	None	None
CPE 326	Methods of Research	2	0	2	EM 214, CPE 311, GE 5	CPE 222
CPE 327	Mobile Technologies	0	3	3	CPE 223	None
TOTAL		16	8	24		

MIDYEAR TERM		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
OJT	On-the-Job Training (240 Hours)		240 **	3	CPE 323, CPE 322, CPE 222	None



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FOURTH YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
CPE 411	Embedded Systems	3	1	4	CPE 323	None
CPE 412	Computer Architecture and Organization	3	1	4	CPE 323, CPE 413	None
CPE 413	Digital Signal Processing	3	1	4	CPE 315	None
CPE DESIGN 1	CpE Practice and Design Project 1	0	3	1	CPE 326, CPE 323	None
CPE 414	Seminars and Fieldtrips	0	3	1	4 th Year Standing	None
CPE 415	Scaling Networks	1	0	1	CPE 322	None
CPE 416	Platform Technologies	3	0	3	CPE 327	None
CPE ELECT 3	CpE Elective 3	0	3	3	CPE ELECT 2	None
GE 9	Life and Works of Rizal	3	0	3	None	None
TOTAL		16	12	24		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
CPE DESIGN 2	CpE Practice and Design Project 2	0	6	2	CPE DESIGN 1, CPE 412	None
CPE 422	Manufacturing and Quality Control	3	0	3	None	None
CPE 423	Intellectual Property	3	0	3	None	None
BES 413	Technopreneurship	3	0	3	None	None
TOTAL		9	6	11		

SUMMARY OF UNITS PER SEMESTER				
Year	First Semester	Second Semester	Midyear Term	Total Units
First Year	29	24		53
Second Year	21	27		48
Third Year	24	24	3	51
Fourth Year	24	11		35
TOTAL				187 units
SUMMARY				
I. General Education Courses				24 units
II. GEC Elective/Mandated Courses				12 units
III. PE 1,2,3 & 4 and NSTP 1& 2				14 units
IV. TECHNICAL COURSES				137 units
TOTAL NO. OF UNITS				187 units

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