

CENTRO ESCOLAR UNIVERSITY
Manila
School of Science and Technology

FOUR-YEAR PROGRAM LEADING TO THE DEGREE
BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
Effective School Year 2020-2021

FIRST YEAR
First Semester

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCE121	Computer Engineering as a Discipline	1	0	0	1	1	0	0	1	NONE
PRCE122	Programming Logic and Design	0	2	0	2	0	6	0	6	NONE
PCCH102	Inorganic and Organic Chemistry	3	2	0	5	3	6	0	9	NONE
PCMA104	Calculus 1	3	0	0	3	3	0	0	3	NONE
COMA11	Mathematics in the Modern World	3	0	0	3	3	0	0	3	NONE
COPY11	Understanding the Self	3	0	0	3	3	0	0	3	NONE
COPE21	PATH-FIT 1: Movement Competency Training	2	0	0	2	2	0	0	2	NONE
COSH11	Empowering the Self	2	0	0	2	2	0	0	2	NONE
COSH21	Religion: History and Texts	3	0	0	3	3	0	0	3	NONE
TOTAL		20	4	0	24	20	12	0	32	

Second Semester

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCE123	Engineering Data Analysis	3	0	0	3	3	0	0	3	PCMA104
PRCE124	Computer-Aided Drafting	0	1	0	1	0	3	0	3	NONE
PRCE135	Data Structure and Algorithm	0	2	0	2	0	6	0	6	PRCE122
PCMA105	Calculus 2	3	0	0	3	3	0	0	3	PCMA104
PCMA106	Discrete Mathematics	3	0	0	3	3	0	0	3	NONE
PCPD101	Physics	3	2	0	5	3	6	0	9	PCMA104
COLA31	Foreign Language 1	3	0	0	3	3	0	0	3	NONE
COLA51	Expository Writing for Global Communication	3	0	0	3	3	0	0	3	NONE
COSH31	Art Appreciation	3	0	0	3	3	0	0	3	NONE
COSH41	Readings in Philippine History	3	0	0	3	3	0	0	3	NONE
COPE22	PATH-FIT 2: Swimming/Recreation	2	0	0	2	2	0	0	2	NONE
TOTAL		26	5	0	31	26	15	0	41	

SECOND YEAR
First Semester

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCE131	Fundamentals of Electrical Circuits	3	1	0	4	3	3	0	6	PCPS104
PRCE132	Fundamentals of Electronic Circuits	3	1	0	4	3	3	0	6	PCPS104
PRCE133	Fundamentals of Database Systems	2	1	0	3	2	3	0	5	PRCE122
PRCE134	Object Oriented Programming	0	2	0	2	0	6	0	6	PRCE122
PCMA107	Differential Equations	3	0	0	3	3	0	0	3	PCMA105
COLA32	Foreign Language 2	3	0	0	3	3	0	0	3	COLA31
CONS21	Science, Technology, and Society	3	0	0	3	3	0	0	3	NONE
COSH43	The Life and Works of Rizal	3	0	0	3	3	0	0	3	NONE
COPE23	PATH-FIT 3: Dance/Individual-Dual Sports	2	0	0	2	2	0	0	2	NONE
CONP11	NSTP 1	3	0	0	3	3	0	0	3	NONE
TOTAL		25	5	0	30	25	15	0	40	

Second Semester

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCE141	Operating Systems	3	1	0	4	3	3	0	6	PRCE135
PRCE143	Logic Circuits and Design	3	1	0	4	3	3	0	6	PRCE132
PCMA108	Numerical Methods	3	0	0	3	3	0	0	3	PCMA107
COLA11	Purposive Communication	3	0	0	3	3	0	0	3	NONE
COSH32	Ethics	3	0	0	3	3	0	0	3	NONE
COSH42	The Contemporary World	3	0	0	3	3	0	0	3	NONE
COPE24	PATH-FIT 4: Team Sports/Games	2	0	0	2	2	0	0	2	NONE
CONP12	NSTP 2	3	0	0	3	3	0	0	3	CONP11
TOTAL		23	2	0	25	23	6	0	29	

THIRD YEAR
First Semester

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
	Cognate/Elective 1**	3	0	0	3	3	0	0	3	PRCE143
PRCE125	Engineering Economics	3	0	0	3	3	0	0	3	PRCE123
PRCE126	Networking 1	2	1	0	3	2	3	0	5	PRCE122
PRCE136	Computer Engineering Drafting and Design	0	1	0	1	0	3	0	3	PRCE132
PRCE137	Computer Architecture and Organization	3	1	0	4	3	3	0	6	NONE
PRCE142	Data and Digital Communications	3	0	0	3	3	0	0	3	PRCE132
PRCE144	Introduction to HDL	0	1	0	1	0	3	0	3	PRCE143
PRCE146	Feedback and Control Systems	3	0	0	3	3	0	0	3	PRCE132, PRCE143
PRCE147	Fundamentals of Mixed Signals and Sensors	3	1	0	4	3	3	0	6	PRCE132, PRCE143
COEF21	Environmental Stewardship	3	0	0	3	3	0	0	3	NONE
COLA21	Malikhaing Komunikasyon Gamit ang Panitikang Popular	3	0	0	3	3	0	0	3	NONE
TOTAL		26	5	0	31	26	15	0	41	



Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
	Cognate/Elective 2**	3	0	0	3	3	0	0	3	
PRCE127	Networking 2 (Computer Networks and Security)	3	1	0	4	3	3	0	6	PRCE126
PRCE145	Basic Occupational Health and Safety	3	0	0	3	3	0	0	3	PRCE144
PRCE150	CpE Laws and Professional Practice	2	0	0	2	2	0	0	2	PRCE144
PRCE152	Microprocessors	3	1	0	4	3	3	0	6	PRCE144
PRCE161	Technopreneurship 101	3	0	0	3	3	0	0	3	PRCE125, PRCE143
PRCE190	Methods of Research	2	0	0	2	2	0	0	2	PRCE125, PRCE143
COSH13	Living and Loving Relationships	2	0	0	2	2	0	0	2	NONE
COSH22	Man, Church and Society	3	0	0	3	3	0	0	3	NONE
	TOTAL	24	2	0	26	24	6	0	30	

FOURTH YEAR										
First Semester										
Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
	Cognate/Elective Course 3**	3	0	0	3	3	0	0	3	
PRCE128	Networking 3	2	1	0	3	2	3	0	5	PRCE127
PRCE148	Software Design	3	1	0	4	3	3	0	6	PRCE134
PRCE151	Digital Signal Processing	3	1	0	4	3	3	0	6	PRCE146
PRCE153	Embedded Systems	3	1	0	4	3	3	0	6	PRCE152
PRCE162	Project Management	3	0	0	3	3	0	0	3	PRCE161
PRCE181	Seminars and Fieldtrips	0	1	0	1	0	3	0	3	PRCE145, PRCE150
PRCE191	Undergraduate Research 1	0	1	0	1	0	3	0	3	PRCE152, PRCE190
	TOTAL	17	6	0	23	17	18	0	35	

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Prac	Total	Lec	Lab	Prac	Total	
PRCE129	Networking 4	2	1	0	3	2	3	0	5	PRCE128
PRCE182	Emerging Technologies in CpE	3	0	0	3	3	0	0	3	PRCE181
PRCE183	On-the-Job-Training - 300 hours (total)	-	-	6	6	3	0	17	20	PRCE150, PRCE151, PRCE153, PRCE162
PRCE192	Undergraduate Research 2	0	2	0	2	0	6	0	6	PRCE191
	TOTAL	5	3	6	14	8	9	17	34	

Embedded Systems

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCE154	Embedded Systems 1	2	1	0	3	2	3	0	5	PRCE153
PRCE155	Embedded Systems 2	2	1	0	3	2	3	0	5	PRCE154
PRCE156	Embedded Systems 3	2	1	0	3	2	3	0	5	PRCE155

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCE157	Microelectronics 1	2	1	0	3	2	3	0	5	PRCE137, PRCE150
PRCE158	Microelectronics 2	2	1	0	3	2	3	0	5	PRCE157
PRCE159	Microelectronics 3	2	1	0	3	2	3	0	5	PRCE158

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRCE163	Software Development 1 (Advanced Database)	2	1	0	3	2	3	0	5	PRCE133
PRCE164	Software Development 2 (Software Engineering 1)	2	1	0	3	2	3	0	5	PRCE163
PRCE165	Software Development 3 (Software Engineering 2)	2	1	0	3	2	3	0	5	PRCE164

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PCBA121	Technopreneurship 1 (Operation Management)	3	0	0	3	3	0	0	3	NONE
PRBA135	Technopreneurship 2 (Marketing Management)	3	0	0	3	3	0	0	3	PCBA121
PRBA154	Technopreneurship 3 (Financial Management)	3	0	0	3	3	0	0	3	PRBA135

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