



**TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES  
QUEZON CITY**

**2018 CURRICULUM FOR BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BSCS)**

IMPORTANT: Registration in any course/s without all the pre-requisite/s, correct sequence and authorized load shall not be given any credit regardless of the grade/s obtained.

NAME: CRUZ, DEINIELLE ANJHELO MARIANO STUDENT NO: 2111814

	COURSE CODE	DESCRIPTIVE TITLE	Credit Units	PRE-REQUISITE(S)/ CO-REQUISITES	EXCEPTION
<b>FIRST YEAR, 1ST SEMESTER (20)</b>					
1.50	GEC 004	Mathematics in the Modern World	3		
1.25	GEC 001	Understanding the Self	3		
1.75	MATH 013	Linear Algebra with MATLAB	3		
1.25	MATH 014	Number Theory	3		
1.25	CS 001	Introduction to Computing	3		
1.25	ITE 001	Computer Programming 1	3		
	PE 001	Physical Education 1	2		
	NSTP 001	National Service Training Program 1	(3)		
<b>FIRST YEAR, 2ND SEMESTER (21)</b>					
	GEC 005	Purposive Communication	3		
	GEC 003	The Contemporary World	3		
	GEC 006	Art Appreciation	3		
	MATH 015	Symbolic Logic	3	MATH 014(P)	
	ITE 012	Computer Programming 2	3	ITE 001(P)	
	PE 002	Physical Education 2	2		
	NSTP 002	National Service Training Program 2	(3)	NSTP 001(P)	
	MATH 007	Differential Calculus	4	MATH 013(P)	
<b>SECOND YEAR, 1ST SEMESTER (24)</b>					
	CS 409	Mobile Computing	3	ITE 001(P)	
	CS 200	Principles of Programming Languages	3	CS 001(P) ITE 001(P)	
	CS 003	Computer Architecture and Organization	3	CS 001(P)	
	PE 003	Physical Education 3	2		
	MATH 008	Integral Calculus	4	MATH 007(P)	
	CS 002	Advanced Object-Oriented Programming	3	ITE 012(P)	
	GEC 002	Readings in Philippine History	3		
	GEE 001	General Education Elective 1	3		
<b>SECOND YEAR, 2ND SEMESTER (25)</b>					
	MATH 012A	Introduction to Numerical Analysis	3	MATH 007(P)	
	PHYS 001C	Calculus-Based Physics (Physics for Engineers)	4	MATH 008(P)	
	MATH 006	Discrete Mathematics	3	MATH 015(P)	
	ITE 005	Operating Systems	3	CS 003(P)	
	ITE 014	Information Management	3	ITE 012(P)	
	PE 004	Physical Education 4	2		
	CS 201A	Data Structures and Algorithms Analysis	4	CS 001(P) CS 002(P)	
	GEE 002	General Education Elective 2	3		
<b>THIRD YEAR, 1ST SEMESTER (24)</b>					
	SOCSC 005	Life and Works of Rizal	3		
	MATH 009CS	Probability and Statistics (w/ Lab)	3	MATH 014(P)	
	CS 004	Networks and Communications	3	ITE 005(P)	
	ITE 013	Application Development and Emerging Technologies	3	CS 409(P)	
	CS 403	Intelligent Agents	3	MATH 012A(P)	
	CS 300	Automata Theory and Formal Languages	3	CS 201A(P) MATH 006(P)	
	CS 301	Software Engineering 1	3	ITE 014(P)	
	GEC 007	Science, Technology, and Society	3		
<b>THIRD YEAR, 2ND SEMESTER (25)</b>					
	CHEM 001C	Chemistry for Engineers	4		
	ITE 015	Social Issues and Professional Practice	3	CS 301(P) ITE 010A(C)	
	CS 302	Modeling and Simulation	3	CS 403(P) MATH 009CS(P)	
	CS 006	Algorithms and Complexity	3	CS 300(P) MATH 012A(P)	

COURSE CODE			DESCRIPTIVE TITLE	Credit Units	PRE-REQUISITE(S)/ CO-REQUISITES	EXCEPTION
CSELEC	001		CS Elective 1	3		
ITE	010A		Human Computer Interaction	3	ITE 013(P)	
CS	005		Information Assurance and Security	3	CS 004(P) ITE 014(P)	
GEE	003		General Education Elective 3	3		
<b>THIRD YEAR, SUMMER (9)</b>						
CS	304		Software Engineering 2	3	CS 302(P) ITE 015(P)	
CS	007		Parallel and Distributed Computing	3	CS 004(P)	
CSELEC	002		CS Elective 2	3		
<b>NO STUDENT SHALL BE ALLOWED TO TAKE FOURTH YEAR PROFESSIONAL COURSES UNLESS HE HAS COMPLETED THE BASIC AND THE THIRD YEAR COURSES INCLUDING PE AND NSTP</b>						
<b>FOURTH YEAR, 1ST SEMESTER (15)</b>						
TECH	101		Technopreneurship	3	ITE 015(P)	
FELEC	001		Free Elective	3		
CSELEC	003		CS Elective 3	3		
CS	307		Thesis 1	3	CS 304(P) TECH 101(C)	
GEC	008		Ethics	3		
<b>FOURTH YEAR, 2ND SEMESTER (6)</b>						
CS	402		Internship in Computing	3	CS 304(P)	
CS	401		Thesis 2	3	CS 307(P)	
<b>ELECTIVE COURSES (57)</b>						
ITE	404		Introduction to Data Science in Python	3	CS 403(P) MATH 009CS(P)	
CS	404		Expert Systems	3	CS 403(P)	
CS	405		Natural Language Processing	3	CS 404(P)	
CS	406		Machine Learning	3	CS 007(P) CS 405(P)	
CS	407		Multimedia Technology	3	ITE 013(P)	
CS	008		Level Design and Scripting	3	CS 302(P) CS 407(P)	
CS	009		Multiplayer and Online Programming	3	CS 007(P) CS 008(P)	
ITE	503		Current Trends and Issues in Computing	3	ITE 013(P)	
SAP	501		SAP / SAS	3	ITE 014(P)	
IT	401		Data Mining and Warehousing	3	ITE 014(P)	
IS	015		Big Data Analytics	3	ITE 014(P)	
ELF	413		Mandarin	3		
ELF	423		Spanish	3		
ITE	020		Quality Assurance	3	CS 304(P)	
IT	008		Systems Administration and Maintenance	3	CS 004(P)	
IS	005		Introduction to Project Management	3	CS 304(P)	
ITE	405		Applied Plotting, Charting, and Data Representation	3	CS 302(P) ITE 404(P)	
ITE	406		Applied Text Mining / Applied Social Network Analysis	3	CS 007(P) ITE 405(P)	
IE	003B		Operations Research	3	CS 006(P) CS 302(P)	

**CREDENTIALS PRESENTED:**

( ) F137A      ( ) NSO Birth Certificate  
( ) F138      ( ) HD  
( ) GMC      ( ) TOR

**DEFICIENCY/IES:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Evaluated By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Received By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**LEGEND**

P = Pre-requisite  
C = Co-requisite

NOTE: EVALUATION IS TENTATIVE AND MAY BE REVISED FOR SOME VALID CAUSES OR REASONS OR IF OMISSIONS AND/OR LACK OF UNITS CREDITED BE DISCOVERED LATER.