


TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES
Quezon City
2018 CURRICULUM FOR BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BSCE)

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 : _____ STUDENT NO : _____

	COURSE CODE	DESCRIPTIVE TITLE	LEC HOURS	LAB HOURS	CREDIT UNITS	PRE-REQUISITE(S)/CO-REQUISITE(S)	
FIRST YEAR, FIRST SEMESTER (17 UNITS)							
	GEC	007	Science, Technology and Society	3	0	3	
	GEC	004	Mathematics in the Modern World	3	0	3	
	MATH	016	Calculus 1	3	0	3	
	ECHEM	001	Chemistry for Engineers	3	3	4	
	CE	004	Civil Engineering Orientation	2	0	2	
	PE	001	Physical Education 1	2	0	2	
	NSTP	001	National Service Training Program 1	(3)	0	(3)	
	TOTAL			16	3	17	
FIRST YEAR, SECOND SEMESTER (21 UNITS)							
	GEC	003	The Contemporary World	3	0	3	
	GEC	001	Understanding the Self	3	0	3	
	MATH	017	Calculus 2	3	0	3	MATH 016(P)
	EPHYS	001	Physics for Engineers (Calculus-Based Physics)	3	3	4	MATH 016(P) MATH 017(C)
	CADD	001A	Engineering Drawing and Plans	0	3	1	
	ITE	001A	Computer Fundamentals and Programming	0	6	2	
	SOCSC	005	Life and Works of Rizal	3	0	3	
	PE	002	Physical Education 2	2	0	2	PE 001(P)
	NSTP	002	National Service Training Program 2	(3)	0	(3)	NSTP 001(P)
	TOTAL			17	12	21	
SECOND YEAR, FIRST SEMESTER (27 UNITS)							
	EMATH	003	Differential Equations	3	0	3	MATH 017(P)
	CADD	001B	Computer Aided Draftng & Design	0	3	1	
	CE	001	Statics of Rigid Bodies	3	0	3	EPHYS 001(P) MATH 017(P)
	CE	010	Fundamentals of Surveying	3	3	4	CADD 001A(P)
	ME	005	Engineering Economy	3	0	3	2nd Year Standing
	EMAN	001	Engineering Management	2	0	2	
	GEC	005	Purposive Communication	3	0	3	
	GEE	001	General Education Elective 1	3	0	3	
	PE	003	Physical Education 3	2	0	2	PE 002(P)
	MATH	013	Linear Algebra with MATLAB	2	3	3	MATH 017(P)
	TOTAL			24	9	27	
SECOND YEAR, SECOND SEMESTER (26 UNITS)							
	CE	006	Engineering Data Analysis	3	0	3	MATH 017(P)
	CE	301	Geology	3	0	3	ECHEM 001(P)
	CE	008	Dynamics of Rigid Bodies	2	0	2	CE 001(P)
	CE	009	Mechanics of Deformable Bodies	4	0	4	CE 001(P) CE 008(C)
	CE	405	Construction Materials and Testing	2	3	3	CE 009(C)
	GEC	006	Art Appreciation	3	0	3	
	GEE	002	General Education Elective 2	3	0	3	
	PE	004	Physical Education 4	2	0	2	
	MATH	011A	Advanced Engineering Mathematics with Numerical Methods	3	0	3	EMATH 003(P)
	TOTAL			25	3	26	
THIRD YEAR, FIRST SEMESTER (28 UNITS)							
	CE	011	Structural Theory	3	3	4	CE 009(P)
	CE	012	Highway and Railroad Engineering	3	0	3	CE 010(P)
	EE	006	Engineering Utilities 1 (Basic Electrical Engg)	3	0	3	EPHYS 001(P)



COURSE CODE		DESCRIPTIVE TITLE	LEC HOURS	LAB HOURS	CREDIT UNITS	PRE-REQUISITE(S)/CO-REQUISITE(S)
ME	303	Engineering Utilities 2 (Basic Mechanical Engineering)	3	0	3	EPHYS 001(P)
CE	007	Numerical Solutions to CE Problems	2	3	3	EMATH 003(P)
CE	013	Building Systems Design	2	3	3	3rd Year Standing
CE	401	Geotechnical Engineering 1 (Soil Mechanics)	3	3	4	CE 009(P) CE 301(P)
CE	023	Fluid Mechanics	2	3	3	CE 009(P)
CE	021	Principles of Earthquake Engineering	2	0	2	3rd Year Standing
TOTAL			23	15	28	
THIRD YEAR, SECOND SEMESTER (24 UNITS)						
CE	014	Principles of Steel Design	2	3	3	CE 011(P)
CE	015	Principles of Reinforced/Prestressed Concrete	3	3	4	CE 011(P)
CE	408	Transportation Engineering	3	0	3	CE 012(P)
CE	016	Hydraulics	2	3	3	3rd Year Standing
PC-S	1	Professional Course-Specialized 1	3	0	3	3rd Year Standing, See track for pre-requisite(s)
PC-S	2	Professional Course-Specialized 2	3	0	3	3rd Year Standing, See track for pre-requisite(s)
PC-S	3	Professional Course-Specialized 3	3	0	3	3rd Year Standing, See track for pre-requisite(s)
CE	304	Integration Course for CE 1	2	0	2	3rd Year Standing
TOTAL			21	9	24	
THIRD YEAR, SUMMER (3 UNITS)						
CE	022	On-the-Job Training (OJT)	2	3	3	3rd Year Standing
TOTAL			2	3	3	
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 COURSES.						
FOURTH YEAR, FIRST SEMESTER (22 UNITS)						
CE	018	Construction Methods and Project Management	3	0	3	4th Year Standing
CE	410	Hydrology	2	0	2	4th Year Standing
CE	019	CE Design Project 1	2	3	3	4th Year Standing
PC-S	4	Professional Course-Specialized 4	3	0	3	4th Year Standing, See track for pre-requisite(s)
PC-S	5	Professional Course-Specialized 5	3	0	3	4th Year Standing, See track for pre-requisite(s)
CE	593	CE Laws, Ethics and Contracts	3	0	3	4th Year Standing
TECH	101	Introduction to Engineering Entrepreneurship	3	0	3	4th Year Standing
CE	414	Integration Course 2 for CE	2	0	2	CE 304(P)
TOTAL			21	3	22	
FOURTH YEAR, SECOND SEMESTER (16 UNITS)						
CE	020	CE Design Project 2	1	6	3	Graduating CE 019(P)
CE	017	Quantity Surveying	1	3	2	Graduating
GEC	008	Ethics	3	0	3	Graduating
GEC	002	Readings in Philippine History	3	0	3	Graduating
CE	508	Integration Course 3 for CE	2	0	2	Graduating CE 414(P)
GEE	003	General Education Elective 3	3	0	3	Graduating
TOTAL			13	9	16	
ELECTIVE COURSES						
PROFESSIONAL COURSE-SPECIALIZED A: CONSTRUCTION ENGINEERING AND MANAGEMENT						
CEC	001	Project Construction & Management	3	0	3	3rd Year Standing,CEC 002(C) CEC 003(C)
CEC	002	Advanced Construction Methods and Equipment	3	0	3	3rd Year Standing,CEC 001(C) CEC 003(C)
CEC	003	Construction Occupational Safety and Health (COSH)	3	0	3	3rd Year Standing,CEC 001(C) CEC 002(C)
CEC	004	Construction Cost Engineering	3	0	3	
CEC	005	Database Management in Construction	3	0	3	



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				TOTAL	15	0	15	
PROFESSIONAL COURSE-SPECIALIZED B: STRUCTURAL ENGINEERING								
CES	001	Matrix Analysis of Structures	3	0	3	3rd Year Standing,CES 002(C) CES 003(C)		
CES	002	Computer Applications in Structural Engineering	3	0	3	3rd Year Standing,CES 001(C) CES 003(C)		
CES	003	Bridge Engineering	3	0	3	3rd Year Standing,CES 001(C) CES 002(C)		
CES	004	Design of Steel Structures	3	0	3			
CES	005	Reinforced Concrete Design	3	0	3			
				TOTAL	15	0	15	
PROFESSIONAL COURSE-SPECIALIZED C: GEOTECHNICAL AND GEO-ENVIRONMENTAL ENGIN								
CEG	001	Foundation Engineering	3	0	3	3rd Year Standing,CEG 002(C) CEG 003(C)		
CEG	002	Ground Improvement	3	0	3	3rd Year Standing,CEG 001(C) CEG 003(C)		
CEG	003	Slope Stability and Earth Dam	3	0	3	3rd Year Standing,CEG 001(C) CEG 002(C)		
CEG	004	Geosynthetics in Geotechnical Engineering	3	0	3			
CEG	005	Computer Applications in Geotechnical Engineering	3	0	3			
				TOTAL	15	0	15	

CREDENTIALS PRESENTED:

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

DEFICIENCY/IES:

Evaluated By: _____ **LEGEND**

Date: _____ P = Pre-requisite

Received By: _____ C = Co-requisite

Date: _____

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.