


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 Activities Toward Health and Fitness 1 (PATHfit 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 Activities Toward Health and Fitness 2 (PATHfit 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 Activities Toward Health and Fitness 3 (PATHfit 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 006(C) CE 009(C)
	GEC	006	Art Appreciation	3	0	3	
	GEE	002	General Education Elective 2	3	0	3	
	PE	004	Physical Activities Toward Health and Fitness 4 (PATHfit 4)	2	0	2	PE 003(P)
	MATH	011A	Advanced Engineering Mathematics with Numerical Methods	3	0	3	EMATH 003(P)
	TOTAL			25	3	26	
THIRD YEAR, FIRST SEMESTER (28 UNITS)							



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COURSE CODE		DESCRIPTIVE TITLE	LEC HOURS	LAB HOURS	CREDIT UNITS	PRE-REQUISITE(S)/CO-REQUISITE(S)
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)
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) MATH 011A(P)
CE	013	Building Systems Design	2	3	3	3rd Year Standing,CADD 001B(P) EE 006(C) ME 303(C)
CE	401	Geotechnical Engineering 1 (Soil Mechanics)	3	3	4	CE 006(P) CE 009(P) CE 301(P)
CE	023	Fluid Mechanics	2	3	3	CE 008(P) CE 009(P)
CE	021	Principles of Earthquake Engineering	2	0	2	3rd Year Standing,CE 011(C)
TOTAL			23	15	28	
THIRD YEAR, SECOND SEMESTER (24 UNITS)						
CE	014	Principles of Steel Design	2	3	3	CE 011(P) CE 021(P)
CE	015	Principles of Reinforced/Prestressed Concrete	3	3	4	CE 011(P) CE 021(P)
CE	408	Transportation Engineering	3	0	3	CE 006(P) CE 012(P)
CE	016	Hydraulics	2	3	3	3rd Year Standing,CE 023(P)
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,CE 405(P) CE 408(C) MATH 011A(P)
TOTAL			21	9	24	
FOURTH YEAR, SUMMER (3 UNITS)						
CE	022	On-the-Job Training (OJT)	2	3	3	4th Year Standing
TOTAL			2	3	3	
FOURTH YEAR, FIRST SEMESTER (22 UNITS)						
CE	018	Construction Methods and Project Management	3	0	3	4th Year Standing,CE 013(P)
CE	410	Hydrology	2	0	2	4th Year Standing,CE 023(P)
CE	019	CE Design Project 1	2	3	3	4th Year Standing,CE 014(P) CE 015(P) CE 016(P) CE 018(C) CE 401(P) CE 405(P)
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,CE 018(C)
TECH	101	Introduction to Engineering Entrepreneurship	3	0	3	4th Year Standing
CE	414	Integration Course 2 for CE	2	0	2	4th Year Standing,CE 016(P) CE 304(P) CE 401(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 CE 013(P) CE 018(P) CE 593(P)
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 014(P) CE 015(P) CE 018(P) 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,CE 013(P) CEC 002(C) CEC 003(C)



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CEC	002	Advanced Construction Methods and Equipment	3	0	3	3rd Year Standing,CE 013(P) CEC 001(C) CEC 003(C)
CEC	003	Construction Occupational Safety and Health (COSH)	3	0	3	3rd Year Standing,CE 013(P) CEC 001(C) CEC 002(C)
CEC	004	Construction Cost Engineering	3	0	3	4th Year Standing,CEC 001(P) CEC 002(P)
CEC	005	Database Management in Construction	3	0	3	4th Year Standing,ITE 001A(P)
TOTAL			15	0	15	
PROFESSIONAL COURSE-SPECIALIZED B: STRUCTURAL ENGINEERING						
CES	001	Matrix Analysis of Structures	3	0	3	3rd Year Standing,CE 011(P) 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) ITE 001A(P)
CES	003	Bridge Engineering	3	0	3	3rd Year Standing,CE 011(P) CES 001(C) CES 002(C)
CES	004	Design of Steel Structures	3	0	3	4th Year Standing,CE 014(P) CES 002(P)
CES	005	Reinforced Concrete Design	3	0	3	4th Year Standing,CE 015(P) CES 002(P)
TOTAL			15	0	15	
PROFESSIONAL COURSE-SPECIALIZED C: GEOTECHNICAL AND GEO-ENVIRONMENTAL ENGIN						
CEG	001	Foundation Engineering	3	0	3	3rd Year Standing,CE 401(P) CEG 002(C) CEG 003(C)
CEG	002	Ground Improvement	3	0	3	3rd Year Standing,CE 401(P) CEG 001(C) CEG 003(C)
CEG	003	Slope Stability and Earth Dam	3	0	3	3rd Year Standing,CE 401(P) CEG 001(C) CEG 002(C)
CEG	004	Geosynthetics in Geotechnical Engineering	3	0	3	4th Year Standing
CEG	005	Computer Applications in Geotechnical Engineering	3	0	3	4th Year Standing,ITE 001A(P)
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.