

BACHELOR OF SCIENCE IN CIVIL ENGINEERING						
EFFECTIVE ACADEMIC YEAR 2018-2019						
(Updated Program of Study as of Academic Year 2020-2021)						
COURSE CODE	COURSE TITLE	HOURS		UNITS	PRE-REQUISITE	CO-REQUISITE
		LEC	LAB			
FIRST YEAR						
FIRST SEMESTER		17	3	23		
CE131	Civil Engineering Orientation	2	0	2	None	
CHEM131	Chemistry for Engineers, lec	3	0	3	None	CHEM181
CHEM181	Chemistry for Engineers, lab	0	3	1	None	CHEM131
MATH137	Engineering Calculus 1	3	0	3	None	
MATH031	Mathematics in the Modern World	3	0	3	None	
STS031	Science, Technology and Society	3	0	3	None	
SOCSCI031	Readings in Philippine History	3	0	3	None	
PE103	Movement Enhancement			2	None	
NSTP111	National Service Training Program 1			3	None	
SECOND SEMESTER		15	9	23		
MATH138	Engineering Calculus 2	3	0	3	MATH137	
PHYS132	Physics for Engineers, lec	3	0	3	MATH137	MATH138, PHYS182
PHYS182	Physics for Engineers, lab	0	3	1	MATH137	MATH138, PHYS132
ES081	Engineering Drawing and Plans	0	3	1	None	
ES084	Computer Programming 1	0	3	1	None	
SOCSCI032	The Contemporary World	3	0	3	None	
PSYCH031	Understanding the Self	3	0	3	None	
PHILO031	Ethics	3	0	3	None	
PE104	Fitness Exercises			2	PE103	
NSTP112	National Service Training Program 2			3	NSTP111	
SECOND YEAR						
FIRST SEMESTER		20	9	25		
CE231	Statics of Rigid Bodies	3	0	3	MATH138, PHYS132	
CE261	Fundamentals of Surveying 1	2	3	3	ES081	
MATH237	Differential Equations	3	0	3	MATH138	
ES031	Engineering Data Analysis	3	0	3	MATH137	
ES034	Engineering Management	3	0	3	None	
ES083	Computer-Aided Design and Drafting	0	3	1	None	
ES085	Computer Programming 2	0	3	1	ES084	
ENGL031	Purposive Communication	3	0	3	None	
HUM031	Art Appreciation	3	0	3	None	
PE205	Physical Activities Towards Health and Fitness I			2	PE103	
SECOND SEMESTER		19	6	23		
CE232	Dynamics of Rigid Bodies	2	0	2	CE231	
CE234	Mechanics of Deformable Bodies	5	0	5	CE231	
CE262	Fundamentals of Surveying 2	2	3	3	CE261	
CE264	Construction Materials and Testing	2	3	3	CE231	CE234
GEOL131A	Geology for Civil Engineers	2	0	2	CHEM131	
ES032	Engineering Economics	3	0	3	ES031	
GE-CE1	General Education Elective 1	3	0	3	None	
PE206	Physical Activities Towards Health and Fitness II			2	PE103	

THIRD YEAR						
FIRST SEMESTER		22	6	24		
CE331	Highway and Railroad Engineering	3	0	3	CE262, CE232	
CE333	Engineering Utilities 1	3	0	3	PHYS132	
CE335	Engineering Utilities 2	3	0	3	PHYS132	
CE337	Construction Safety Management	1	0	1	3rd Year Standing	
CE351	Numerical Solutions to CE Problems	3	0	3	MATH237	
CE361	Structural Theory	3	6	5	CE234	
GE-CE2	General Education Elective 2	3	0	3	None	
GE-CE3	General Education Elective 3	3	0	3	None	
SECOND SEMESTER		20	12	24		
CE352	Hydrology	2	0	2	PHYS132	
CE354	Environmental Engineering for CE	2	0	2	CE335	CE364
CE356	CE Law, Ethics and Contracts	2	0	2	3rd Year Standing	CE362, CE368
CE362	Principles of Steel Design	2	3	3	CE361	
CE364	Building System Design	2	3	3	ES081	
CE366	Hydraulics	4	3	5	CE232, CE234	
CE368	Principles of Reinforced/Pre-stressed Concrete	3	3	4	CE361	
ES038	Technopreneurship	3	0	3	ES032	
SUMMER TERM		2	3	3		
CE460	On-the-Job Training	2	3	3	4th year level	
FOURTH YEAR						
FIRST SEMESTER		13	18	19		
CE431	Principles of Transportation Engineering	3	0	3	CE331	
CE461	Geotechnical Engineering 1 (Soil Mechanics)	3	3	4	GEOL131A, CE234	
CE463	CE Project 1	1	3	2	4th Year Standing	
CETS461	Professional Course-specialized 1	3	3	4	4th Year Standing	
CETS463	Professional Course-specialized 2	3	3	4	4th Year Standing	
CECC481	CE Comprehensive Course 1	0	3	1	MATH237, CE262	CE431
CECC483	CE Comprehensive Course 2	0	3	1	CE362, CE368	
SECOND SEMESTER		13	21	20		
CE462	Quantity Surveying	1	3	2	CE333, CE335, CE362, CE364, CE368	
CE464	CE Project 2	1	3	2	CE463	
CE466	Construction Methods and Project Management	2	3	3	4th Year Standing	CE462
CETS464	Professional Course-specialized 3	3	3	4	4th Year Standing	
CETS466	Professional Course-specialized 4	3	3	4	4th Year Standing	
CETS468	Professional Course-specialized 5	3	3	4	4th Year Standing	
CECC484	CE Comprehensive Course 3	0	3	1	CE366, CE461	
RIZAL031	The Life and Works of Rizal	3	0	3	None	
GRAND TOTAL		141	87	184		

Professional Courses - Specialized Tracks						
A. Construction Engineering and Management		D. Transportation Engineering				
Project Construction and Management		Transportation Systems Planning and Design				
Advanced Construction Methods and Equipment		Highway Engineering				
Construction Cost Engineering		Airport Design				
Database Management in Construction		Ports and Harbor				
Construction Occupational Safety and Health (COSH)						
B. Geotechnical Engineering		E. Water Resources Engineering				
Geotechnical Engineering 2 (Rock Mechanics)		Water Resources Engineering				
Foundation Engineering		Flood Control and Drainage Design				
Geotechnical Earthquake Engineering		Irrigation Engineering				
Ground Improvement		Water Supply Planning and Development				
C. Structural Engineering		Coastal Engineering				
Computer Software in Structural Analysis		River Engineering				
Earthquake Engineering		Ground Water Flow Modelling				
Design Steel Structures						
Reinforced Concrete Design						
Prestressed Concrete Design						
Structural Design of Towers and other Vertical Structures						
Bridge Engineering						
Foundation of Retaining Wall Design						
Recommended General Education Electives						
ENGL014	Technical Writing/ Communication	3	0	3		
SSP031	Creative Thinking Tools	3	0	3		
SSP032	Sustainability Development and Global Citizenship	3	0	3		