



2018 CURRICULUM FOR BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BSCE)

IMPORTANT : REGISTRATION IN ANY COURSE WITHOUT ALL THE PREREQUISITES, CORRECT SEQUENCE AND AUTHORIZED LOAD SHALL NOT BE GIVEN ANY CREDIT REGARDLESS OF THE GRADE OBTAINED. 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.

		Student's Name and Signature					
COURSE CODE		DESCRIPTIVE TITLE	Lecture Hours Laboratory Hours Credit Units			PREREQUISITE(S)	
FIRST YEAR, FIRST SEMESTER (15 UNITS)							
GEC	004	Mathematics in the Modern World	3	0	3		
MATH	018	Calculus 1	3	0	3		
CHM	001	Chemistry for Engineers	3	3	4		
CE	101	Civil Engineering Orientation	2	0	2		
CE	102	Civil Engineering Drawing and Plans	0	3	1		
PE	101	Physical Education 1	2	0	2		
NSTP	001	National Service Training Program 1	(3)	0	(3)		
FIRST YEAR, SECOND SEMESTER (20 UNITS)							
MATH	019	Calculus 2	3	0	3	MATH 018	
PHYS	111	Calculus-Based Physics	3	3	4		
GEC	001	Understanding the Self	3	0	3		
GEC	008	Ethics	3	0	3		
CE	103	Surveying 1	1	3	2	CE 102	
CE	104	Building Systems Design	2	3	3	CE 102	
PE	102	Physical Education 2	2	0	2	PE 101	
NSTP	002	National Service Training Program 2	(3)	0	(3)	NSTP 001	
SECOND YEAR, FIRST SEMESTER (29 UNITS)							
MATH	021	Differential Equations	3	0	3	MATH 019	
ME	304	Engineering Economics	3	0	3	2nd Year Standing	
EE	200B	Engineering Utilities 1	3	0	3	PHYS 111	
ME	201A	Engineering Utilities 2	3	0	3	PHYS 111	
CE	023	Engineering Data Analysis	3	0	3	MATH 018	
MATH	022A	Linear Algebra with MATLAB	2	3	3	MATH 018	
CE	201	Statics of Rigid Bodies	3	0	3	MATH 019, PHYS 111	
CE	202	Geology for Civil Engineers	3	0	3	CHM 001	
CE	203	Surveying 2	2	3	3	CE 103	
PE	201	Physical Education 3	2	0	2	PE 102	
SECOND YEAR, SECOND SEMESTER (29 UNITS)							
GEE	001B	GE Elective 1 - Gender and Society	3	0	3		
CE	316	Numerical Solutions to CE Problems	2	3	3	MATH 021	
MATH	024A	Advanced Engineering Mathematics for CE	3	0	3	MATH 021	
CE	308	Hydrology	2	0	2	CE 309 (C)	
CE	309	Fluid Mechanics	2	3	3	CE 023, CE 308(C)	
CE	204	Dynamics of Rigid Bodies	2	0	2	CE 201	
CE	205	Mechanics of Deformable Bodies	4	0	4	CE 201	
CE	206	Construction Materials and Testing	2	3	3	CE 023, CE 205 (C)	
CE	207	Quantity Surveying	1	3	2	CE 104	
CE	208	Integration Course 1 for CE	2	0	2	CE 204(C), CE 205(C)	
PE	202	Physical Education 4	2	0	2	PE 201	
THIRD YEAR, FIRST SEMESTER (30 UNITS)							
GEE	002B	GE Elective 2 - Living in the IT Era	3	0	3	GEE 001B	
TECH	101	Introduction to Engineering Entrepreneurship	3	0	3	2nd Year Standing	
IE	101	Engineering Management	2	0	2		
CE	443	Specialized Course 1	3	0	3	See track for pre-requisite(s)	
CE	444	Specialized Course 2	3	0	3	See track for pre-requisite(s)	
CE	305	Principles of Earthquake Engineering	3	0	3	CE 315 (C)	
CE	315	Structural Theory	3	3	4	CE 205	
CE	302	Highway and Railroad Engineering	3	0	3	CE 203	
GEC	006	Art Appreciation	3	0	3		
GEC	002	Readings in Philippine History	3	0	3		
THIRD YEAR, SECOND SEMESTER (31 UNITS)							
CE	445	Specialized Course 3	3	0	3	See track for pre-requisite(s)	
CE	446	Specialized Course 4	3	0	3	See track for pre-requisite(s)	
CE	319	Hydraulics Engineering	4	3	5	CE 309	
CE	304	Geotechnical Engineering 1	3	3	4	CE 023, CE 202, CE 206	
CE	306	Principles of Steel Design	3	3	4	CE 305, CE 315	
CE	307	Principles of Reinforced Concrete Design	3	3	4	CE 305, CE 315	
CE	448	Prestressed Concrete Design	3	0	3	CE 307 (C)	
CE	310	Principles of Transportation Engineering	3	0	3	CE 302	
CE	311	Integration Course 2 for CE	2	0	2	CE 208	

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.

COURSE CODE	DESCRIPTIVE TITLE	Lecture Hours Laboratory Hours Credit Units			PREREQUISITE(S)
		Lecture Hours	Laboratory Hours	Credit Units	
FOURTH YEAR, FIRST SEMESTER (27 UNITS)					
CE 434	Construction Methods and Project Management	2	3	3	CE 207
CE 432	Principles of Foundation Design	3	3	4	CE 304, CE 307 (C)
GEE 005A	GE Elective 3 - Environmental Science and Engineering	3	0	3	GEE 002B
GEC 003	The Contemporary World	3	0	3	
GEC 007	Science, Technology and Society	3	0	3	
GEC 005	Purposive Communication	3	0	3	
CE 431	CE Laws, Ethics and Contracts	2	0	2	4th Year Standing
CE 403A	Civil Engineering Computer Aided Drafting	0	3	1	
CE 436	Computer Fundamentals, Programming and Applications in CE	0	6	2	
CE 435	CE Design Project 1	2	3	3	CE 306, CE 307, CE 448, CE 432
FOURTH YEAR, SECOND SEMESTER (14 UNITS)					
GEM 001	Life and Works of Rizal	3	0	3	
CE 447	Specialized Course 5	3	0	3	
CE 441	CE Design Project 2	1	6	3	CE 435, Graduating
CE 400A	On-the-Job Training for CE (240 Hrs.)	3	240	3	4th Year Standing
CE 412	Integration Course 3 for CE	2	0	2	CE 311
ELECTIVE COURSES					
NOTE: A STUDENT MAY CHOOSE ANY OF THE TRACK ELECTIVES BELOW AND ONCE A TRACK ELECTIVE IS CHOSEN, ALL COURSES IN THE TRACK MUST BE TAKEN.					
Construction Engineering and Management					
CEM 301	Project Construction and Management	3	0	3	IE 101(C), CEM 302 (C)
CEM 302	Advanced Construction Methods and Equipment	3	0	3	IE 101(C), CEM 301 (C)
CEM 303	Construction Cost Engineering	3	0	3	CEM 301, CEM 302
CEM 304	Construction Occupational Safety and Health (COSH)	3	0	3	CEM 301, CEM 302
CEM 305	Database Management in Construction	3	0	3	CEM 301, CEM 302
Geotechnical and Geo-Environmental Engineering					
GTECH 301	Geotechnical Engineering 2 (Rock Mechanics)	3	0	3	CE 304(C), GTECH 302 (C)
GTECH 302	Geotechnical Earthquake Engineering	3	0	3	CE 304(C), GTECH 301(C)
GTECH 303	Advanced Foundation Engineering	3	0	3	CE 432(C), GTECH 301, GTECH 302
GTECH 304	Ground Improvement	3	0	3	CE 432(C), GTECH 301, GTECH 302
GTECH 305	Computer Applications in Geotechnical Engineering	3	0	3	CE 432(C), GTECH 301, GTECH 302
Transportation Engineering					
TREN 301	Transportation System Planning and Design	3	0	3	CE 302 (C), TREN 302(C)
TREN 302	Highway Engineering	3	0	3	CE 302 (C), TREN 301(C)
TREN 303	Airport Design	3	0	3	TREN 301, TREN 302
TREN 304	Ports and Harbors	3	0	3	TREN 301, TREN 302
TREN 305	Computer Applications in Transportation Engineering	3	0	3	TREN 301, TREN 302
Water Resources Engineering (WRE)					
WRE 301	Water Resources Engineering	3	0	3	CE 308, CE 309, WRE 302(C)
WRE 302	Water Supply Planning and Development	3	0	3	CE 308, CE 309, WRE 301(C)
WRE 303	Flood Control and Drainage Engineering	3	0	3	WRE 301, WRE 302
WRE 304	Coastal Engineering	3	0	3	WRE 301, WRE 302
WRE 305	Irrigation Engineering	3	0	3	WRE 301, WRE 302

TOTAL NO. OF UNITS201

CREDENTIALS SUBMITTED:

- F138 PSA Birth Certificate
- GMC Transfer Credential
- F137A TOR

DEFICIENCY/IES

Evaluated by: _____

Date: _____

Received by: _____

Date: _____