



COLLEGE OF ENGINEERING
Bachelor of Science in Civil Engineering
2022 Curriculum

Reference: CMO No.92 series of 2017, PSG for the Bachelor of Science in Civil Engineering

FIRST YEAR - First Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
FEMA	Pre-Calculus	4	0	4		MTN 4
MTN 4	Calculus I	3	0	3		FEMA
CE 112	Civil Engineering Orientation	2	0	2		
CE 121	Engineering Drawing and Plans	0	3	1		
GEC 1	Understanding the Self	3	0	3		
GEC 3a	The Contemporary World (w/ Peace Education)	3	0	3		
EN +	Enhanced Communication Skills	3	0	3		
PEN 1	Fitness and Recreational Outdoor Activity	2	0	2		
NSTP 1	National Service Training Program I	3	0	3		
	Sub total	23	3	24		

FIRST YEAR - Second Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
Phys 1a	Physics for Engineers I Lec	3	0	3	MTN 4, FEMA	MTN 5
Phys 1a L	Physics for Engineers I Lab	0	3	1	MTN 4, FEMA	MTN 5
Phys 1b	Physics for Engineers II Lec	2	0	2	MTN 4, FEMA	MTN 5, Phys 1a
Phys 1b L	Physics for Engineers II Lab	0	3	1	MTN 4, FEMA	MTN 5, Phys 1a
Chem 1a	Chemistry for Engineers Lec	3	0	3		
Chem 1a L	Chemistry for Engineers Lab	0	3	1		
MTN 5	Calculus II	3	0	3	MTN 4, FEMA	
GEC 4	Mathematics in the Modern World	3	0	3		
FILN 1	Kontekstwalisadong Komunikasyon sa Filipino	3	0	3		
PEN 2	Philippine Folk Dances	2	0	2	PEN 1	
NSTP 2	National Service Training Program II	3	0	3	NSTP 1	
	Sub total	22	9	25		

SECOND YEAR - First Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
BES 01	Computer-Aided Drafting	0	3	1	CE 121	
BES 03	Engineering Management	2	0	2		
EDA 101	Engineering Data Analysis	3	0	3	MTN 5	
GCE 222	Geology for Civil Engineers	2	0	2	Chem 1a	
MTN 6	Differential Equations	3	0	3	MTN 5	
Mech 1	Statics of Rigid Bodies	3	0	3	MTN5, Phys 1a	
CE 214	Fundamentals of Surveying 1 Lec	3	0	3	CE 121	
CE 214L	Fundamentals of Surveying 1 Lab	0	3	1	CE 121	
GEE 7	Gender and Society	3	0	3		
PEN 3	Individual and Dual Sports	2	0	2	PEN 1	
	Sub total	21	6	23		

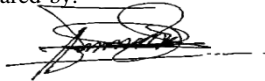
SECOND YEAR - Second Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
Mech 2	Dynamics of Rigid Bodies	2	0	2	Mech 1	
Mech 3	Mechanics of Deformable Bodies	4	0	4	Mech 1	
CMT 223	Construction Materials & Testing Lec	2	0	2		Mech 3
CMT 223L	Construction Materials & Testing Lab	0	3	1		Mech 3
GEC 6	Art Appreciation	3	0	3		
GEC 8	Ethics	3	0	3		
GEC 5	Purposive Communication	3	0	3	EN +	
GEC 2a	Reading in Philippine History (IP Education)	3	0	3		
GEE 15	ASEAN Culture and Studies	3	0	3		
PEN 4	Team Sports	2	0	2	PEN 1	
	Sub total	25	3	26		

SECOND YEAR - Mid Year						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
CE 225	Fundamentals of Surveying 2	2	0	2		
CE 225L	Fundamentals of Surveying 2 Lab	0	3	1		
ECN 1	Computer Fundamentals and Programming	0	6	2		
	Sub total	2	9	5		

THIRD YEAR - First Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
CE 314	Structural Theory	3	3	4	Mech 3	
HRE 313	Highway and Railroad Engineering	3	0	3	CE 225	
EU 1	Engineering Utilities I	3	0	3	Phys 1a, Phys 1b	
EU 2	Engineering Utilities II	3	0	3	Phys 1a, Phys 1b	
NS 313	Numerical Solutions to CE Problems	2	3	3	MTN 6	
BSD 323	Building Systems Design	2	3	3	CE 121	
GEC 7	Science, Technology and Society	3	0	3	3rd Year Standing	
GEE 13	Environmental Science and Engineering	3	0	3	Chem 1a	
	Sub total	17	6	25		
THIRD YEAR - Second Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
BES 02	Engineering Economics	3	0	3	EDA 101	
PSD 323	Principles of Steel Design	2	3	3	CE 314	
PCD 324	Principles of Reinforced/Prestressed Concrete	3	3	4	CE 314	
CE 325	Hydraulics Lec	4	0	4	3rd Year Standing	
CE 325	Hydraulics Lab	0	3	1	3rd Year Standing	
QS 422	Quantity Surveying	1	3	2	BSD 323	
CE 320	Research Methods for CE	3	0	3	3rd Year Standing	EN 1
EN 1	Scientific and Technical Writing for Engineers	3	0	3	GEC 5	
GEM	Life and Works of Rizal	3	0	3		
	Sub total	22	12	26		
THIRD YEAR - Mid Year						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	
		Lec	Lab			
OJT-CE	On-the-Job Training (280 hours)	3	280 hrs	3	4th Year Standing, BSD 323, PSD 323, PCD 324	
	Sub total	3	0	3		
FOURTH YEAR - First Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
BES 04	Technopreneurship 101	3	0	3	4th Year Standing	
GE 414	Geotechnical Engineering I Lec (Soil Mechanics)	3	0	3	GCE 222, Mech 3	
GE 414	Geotechnical Engineering I Lab (Soil Mechanics)	0	3	1	GCE 222, Mech 3	
PCS 4	Earthquake Engineering	3	0	3	CE 314	
CEP 412	CE Project I	1	3	2	BSD 323, PSD 323, PCD 324	
PCS 1	Reinforced Concrete Design	3	0	3	PCD 324	
PCS 2	Design of Steel Structures	3	0	3	PSD 323	
CE 423	Construction Methods and Project Management	3	0	3	4th Year Standing	
CE 411	Hydrology	2	0	2	CE 325	
STM 400	Special Topics in Mathematics	2	3	3	4th Year Standing	
	Sub total	23	9	26		
FOURTH YEAR - Second Semester						
Course Code	Descriptive Title	Hour/s		Credit/s	Pre-requisite	Co-requisite
		Lec	Lab			
CEP 422	CE Project II	1	3	2	CEP 412	
LEC 322	CE Laws, Ethics and Contracts	2	0	2	4th Year Standing	
PCS 3	Computer Softwares in Structural Analysis	3	0	3	PSD 323, PCD 324	
PTE 413	Principles of Transportation Engineering	3	0	3	HRE 313	
PCS 5	Prestressed Concrete Design	3	0	3	PCD 324	
FRW 423	Foundation and Retaining Wall Design	3	0	3	GE 414, PCD 324	
CEST 1	CE Special Topics 1	3	3	4	STM 400	
CEST 2	CE Special Topics 2	3	0	3	BSD 323	
	Sub total	21	6	23		

Total Units = 206

- *The nth Year Standing means that the student shall have completed atleast 75% of the load requirements of the previous year level
- *Pre-requisite subjects with a grade of INC must be completed first before taking the succeeding subject
- *CE Special Topics 1 - Special topics in preparation for BSCE Licensure Examination
- *CE Special Topics 2 - Special topics in preparation for Master Plumber Licensure Examination

Prepared by:


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Revised: 1/17/2022