



COLLEGE OF ENGINEERING
BACHELOR OF SCIENCE IN CIVIL ENGINEERING CURRICULUM
(ENHANCED CURRICULUM 2024)

FIRST YEAR													
FIRST SEMESTER					SECOND SEMESTER								
Course Code	Course Description	No. of Hours		Units	Pre-Requisite	Co-Requisite	Course Code	Course Description	No. of Hours		Units	Pre-Requisite	Co-Requisite
		LEC	LAB						LEC	LAB			
Math 110	Pre-Calculus	3	0	3		Math111	Math 112	Calculus 2	5	0	5	Math 111	
Math 111	Calculus 1	5	0	5		Math110	ES 112L	Computer Fundamentals & Programming	0	6	2		
Chem 111	Chemistry for Engineers (lec)	3	0	3		Chem 111L	ES 113L	Engineering Drawing and Plans	0	3	1		
Chem 111L	Chemistry for Engineers (lab)	0	3	1		Chem 111	Phys 111	Physics for Engineers (lec)	3	0	3	Math 111	Math 112, Phys 111L
ES 111	Civil Engineering Orientation	2	0	2		Math 111	Phys 111L	Physics for Engineers (lab)	0	3	1	Math 111	Math 112, Phys 111
GE-MW	Mathematics in Modern World	3	0	3			GE-CW	Contemporary World	3	0	3		
GE-ST	Science, Technology and Society	3	0	3			GE-AA	Art Appreciation	3	0	3		
GE-PH	Readings in Philippine History	3	0	3			GE-US	Understanding the Self	3	0	3		
PE 11	PATHFIT 1 Movement Competency Training	2	0	2			PE 12	PATHFIT 2 (Exercise Base Fitness Activity)	2	0	2	PE 11	
NSTP 111	National Service Training Program 1	3	0	3			NSTP 112	National Service Training Program 2	3	0	3		
TOTAL		27	3	28			TOTAL		22	12	26		
SECOND YEAR													
FIRST SEMESTER					SECOND SEMESTER								
Course Code	Course Description	No. of Hours		Units	Pre-Requisite	Co-Requisite	Course Code	Course Description	No. of Hours		Units	Pre-Requisite	Co-Requisite
		LEC	LAB						LEC	LAB			
Math 113	Differential Equations	3	0	3	Math 112		Math 114	Engineering Data Analysis	3	0	3	Math 113	
ES 114	Computer-Aided Drafting	0	3	1	ES 113		ES 117	Dynamics of Rigid Bodies	3	0	3	ES 115	
ES 115	Statics of Rigid Bodies	3	0	3	Phy121	Math 113	ES 118	Geology for Engineers	3	0	3	2nd year standing	ES 117
ES 116	Engineering Economics	3	0	3	2nd year standing		CE 112	Mechanics of Deformable Bodies	3	0	3	ES 115	ES221
CE 111	Fundamentals of Surveying	3	0	3	Math 112		CE 112L	Mechanics of Deformable Bodies	0	3	1	ES 115	ES221
CE 111L	Fundamentals of Surveying	0	3	1	Math 112		CE 113	Earthquake Engineering	3	0	3	2nd year standing	ES 118
GE-PC	Purposive Communication	3	0	3			GE-E	Ethics	3	0	3		
GE-PI	Philippines Indigenous Peoples' Studies	3	0	3			Rizal	Rizal's Life and Works	3	0	3		
GE-GS	Gender and Society	3	0	3			GE-PE	Peace Education	3	0	3		
PE 21	PATHFIT 3 Individual/Dual Sports	2	0	2	PE 12		PE 22	PATHFIT 4 Team Sports	2	0	2	PE 21	
TOTAL		23	6	25			TOTAL		26	3	27		
THIRD YEAR													
FIRST SEMESTER					SECOND SEMESTER								
Course No.	Descriptive Title	No. of Hours		Units	Pre-requisite	Co-requisite	Course No.	Descriptive Title	No. of Hours		Units	Pre-requisite	Co-requisite
		LEC	LAB						LEC	LAB			
CE 114	Structural Theory 1 (lec)	2	0	2	CE 112	CE 114L	CE 119	Structural Theory 2 (lec)	2	0	2	CE 114	CE 119L
CE 114L	Structural Theory 1 (lab)	0	3	1	CE 112	CE 114	CE 119L	Structural Theory 2 (lab)	0	3	1	CE 114L	CE 119
CE 115	Construction Materials and Testing (lec)	3	0	3	Chem 111, CE 112	CE 115L	CE 120	Principles of Steel Design (lec)	2	0	2	CE 114 / CE313	CE 120L
CE 115L	Construction Materials and Testing (lab)	0	3	1	Chem 111L, CE 112	CE 115	CE 120L	Principles of Steel Design (lab)	0	3	1	CE 114L / CE313L	CE 120
CE 116	Highway & Railroad Engineering	3	0	3	CE 111		CE 121	Building Design System (lec)	2	0	2	3rd year standing	CE 119
CE 117	Research Methods	3	0	3	Math 114		CE 121L	Building Design System (lab)	0	3	1	3rd year standing	CE 119L
CE 118	Mechanics of Fluids (lec)	2	0	2	3rd year standing	CE 114	CE 122	Principles of Reinforced Concrete (lec)	3	0	3	CE 114 / CE313	CE 122L
CE 118L	Mechanics of Fluids (lab)	0	3	1	3rd year standing	CE 114L	CE 122L	Principles of Reinforced Concrete (lab)	0	3	1	CE 114L CE313L	CE 122
Math 115	Numerical Methods (lec)	3	0	3	Math 113, Math 114	Math 115L	CE 123	Hydrology	2	0	2	3rd Yr. Standing	CE 119, CE 124
Math 115L	Numerical Methods (lab)	0	3	1	Math 113, Math 114	Math 115	CE 124	Hydraulics (lec)	4	0	4	3rd Yr. Standing	CE 119, CE 124
ES 119	Engineering Utilities 1	3	0	3	3rd year standing	CE 115	CE 124L	Hydraulics (lab)	0	3	1	3rd Yr. Standing	CE 119L, CE 124L
ES 120	Engineering Utilities 2	3	0	3	3rd year standing	CE 115	CE 125	CE Laws, Ethics and Contracts	2	0	2	3rd Yr. Standing	
IC 111L	Community Base Engagement for Civil Engineering	0	3	1	3rd year standing		CE 126	CE Project 1 (lec)	2	0	2	CE 117	CE 119, CE 120, CE 121, CE 126
TOTAL		22	15	27			CE 126L	CE Project 1 (lab)	0	3	1	CE 117	CE 119, CE 120, CE 121, CE 126
							ES 121	Technopreneurship 101	3	0	3	3rd Yr. Standing	
							TOTAL		22	18	28		
SUMMER													
Course No.	Descriptive Title	No. of Hours		Units	Pre-requisite	Co-requisite	Course No.	Descriptive Title	No. of Hours		Units	Pre-requisite	Co-requisite
		LEC	LAB						LEC	LAB			
CE 127	On the-job-training-240 hours	2	3	3					2	3	3	Completed all Technical Courses prior to OJT	
TOTAL		2	3	3					2	3	3		
FOURTH YEAR													
FIRST SEMESTER					SECOND SEMESTER								
Course No.	Descriptive Title	No. of Hours		Units	Pre-requisite	Co-requisite	Course No.	Descriptive Title	No. of Hours		Units	Pre-requisite	Co-requisite
		LEC	LAB						LEC	LAB			
CE 128	Soil Mechanics (lec)	3	0	3	4th year standing		CE 135	Quantity Surveying	2	3	3	4th Yr. Standing	
CE 128L	Soil Mechanics (lab)	0	3	1	4th year standing		CE 136	Construction Methods & Project Management (lec)	3	0	3	CE 132	

CE 129	Principles of Transportation Engineering	3	0	3	CE 116	
CE 130	CE Project 2 (lec)	2	0	2	CE 126	CE 130L
CE 130L	CE Project 2 (lab)	0	3	1	CE 126L	CE 130
CE 131	Engineering Management	3	0	3	4th Yr. Standing	
CE 132	Design of Steel Structures (lec)	3	0	3	CE 120, CE323	CE 132L
CE 132L	Design of Steel Structures (lab)	0	3	1	CE 120L, CE323L	CE 132
CE 133	Computer Software in Structural Analysis (lec)	3	0	3	CE 119	CE 133L
CE 133L	Computer Software in Structural Analysis (lab)	0	3	1	CE 119L	CE 133
CE 134	Course Appraisal 1	5	0	5	4th Yr. Standing	
TOTAL		22	12	26		

CE 136L	Construction Methods & Project Management (lab)	0	3	1	CE 132	
CE 137	Prestressed Concrete Design	3	0	3	CE 122, CE 122L	CE 139, CE 140
CE 138	Foundation & Retaining Wall Design (lec)	3	0	3	CE 122	CE 139, CE 140L
CE 138L	Foundation & Retaining Wall Design (lab)	0	3	1	CE 122L	CE 139, CE 140
CE 139	Reinforced Concrete Design (lec)	3	0	3	CE 122, CE323	CE 139L
CE 139L	Reinforced Concrete Design (lab)	0	3	1	CE 122L, CE323L	CE 139
CE 140	Bridge Engineering (lec)	3	0	3	CE 122	CE 139, CE 140L
CE 140L	Bridge Engineering (lab)	0	3	1	CE 122L	CE 139, CE 140
CE 141	Course Appraisal 2	5	0	5	CE 134	
TOTAL		22	15	27		
GRAND TOTAL		188	87	217		