



**BACHELOR OF SCIENCE IN CIVIL ENGINEERING Major in Structural Engineering**  
*(based on CMO No. 92 s. 2017)*

FIRST YEAR											
First Semester					Second Semester						
Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite	Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite
		L E C	L A B					L E C	L A B		
GE – ST	Science, Technology and Society	3		3		GE – CW	Contemporary World	3		3	
GE – MM	Mathematics in Modern World	3		3		GE – US	Understanding the Self	3		3	
Math 111	Calculus 1	5		5		Math 121	Calculus 2	5		5	Math 111
Chem 111	Chemistry for Engineers	3	3	4		Phy 121	Physics for Engineers (Calculus Based)	3	3	4	Math 111&121
CE 111	Civil Engineering Orientation	2		2		ES 122	Engineering Drawing and Plans		6	2	
GE – PH	Readings in Philippine History	3		3		ES 121	Computer Fundamentals & Programming	2	3	3	
PE 11	Movement Enhancement (ME)	2		2		PE 12	Fitness Exercise (FE)	2		2	PE 11
NSTP 1	National Service Training Program 1	3		3		NSTP 2	National Service Training Program 2	3		3	NSTP 1
<b>TOTAL</b>		<b>24</b>	<b>3</b>	<b>25</b>		<b>TOTAL</b>		<b>21</b>	<b>12</b>	<b>25</b>	

SECOND YEAR											
First Semester					Second Semester						
Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite	Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite
		L E C	L A B					L E C	L A B		
Math 211	Differential Equations	3		3	Math 121	Math 221	Engineering Data Analysis	3		3	Math 121
ES 211	Computer-Aided Drafting	1	3	2	ES 121	ES 221	Geology for Engineers	3		3	Chem 111
ES 213	Statics of Rigid Bodies	3		3	Math 121	CE 223	Dynamics of Rigid Bodies	3		3	ES 212
CE 211	Fundamentals of Surveying	3	3	4	Math 121	CE 221	Mechanics of Deformable Bodies	3	3	4	ES 212
ES 212	Engineering Economics	3		3		CE 222	Construction Materials & Testing	3	6	5	ES 121 Chem111
GE – PC	Purposive Communication	3		3		GE – AA	Art Appreciation	3		3	
FIL 1	Kontekstwalisadong Komunikasyon sa Filipino	3		3		FIL 2	Filipino sa Iba't Ibang Disiplina	3		3	
PE 21	Physical Activities Towards Health & Fitness (PATH-Fit) 1 ( <i>Dance, Sports, Outdoor &amp; Adventure Activities</i> )	2			PE 12	PE 22	Physical Activities Towards Health & Fitness (PATH-Fit) 2 ( <i>Dance, Sports, Outdoor &amp; Adventure Activities</i> )	2		4	PE 21
RIZAL	Rizal's Life and Works	3				<b>TOTAL</b>		<b>23</b>	<b>9</b>	<b>26</b>	
<b>TOTAL</b>		<b>24</b>	<b>6</b>	<b>26</b>							

THIRD YEAR											
First Semester					Second Semester						
Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite	Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite
		L E C	L A B					L E C	L A B		
CE 312	Structural Theory	3	3	4	CE 221	ES 321	Technopreneurship 101	3			3 <sup>rd</sup> Yr. Standing
CE 311	Highway & Railroad Engineering	3		4	CE 211	CE 327	Building Design System	2	3	3	ES 121
ES 311	Circuit 1	3		3	Phy 121	CE 321	Principles of Steel Design	2	3	3	CE 312
ES 313	Thermodynamics	3		3	Phy 121	CE 322	Principles of Reinforced/Pre-stressed Concrete	3	3	4	CE 312
ES 312	Mechanics of Fluids	3	3	4	Phy 121	CE 323	Hydrology	2		2	ES 312
Math 311	Numerical Methods	3	3	4	Math 211	CE 324	Hydraulics	4	3	5	ES 312
GE – E	Ethics	3		3		CE 325	CE Laws, Ethics and Contracts	2		2	3 <sup>rd</sup> Yr. Standing
LIT 1	Poetry	3		3		CE 326	Research Methods	3		3	3 <sup>rd</sup> Yr. Standing
<b>TOTAL</b>		<b>24</b>	<b>9</b>	<b>27</b>		<b>TOTAL</b>		<b>21</b>	<b>12</b>	<b>25</b>	

SUMMER					
Course No.	Descriptive Title	Units			Pre-requisite/Co-requisite
		LEC	LAB		
OJT	On-the-Job Training – 240 hours	2	3	3	3 <sup>rd</sup> Year Standing
<b>TOTAL</b>		<b>2</b>	<b>3</b>	<b>3</b>	

FOURTH YEAR											
First Semester					Second Semester						
Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite	Course No.	Descriptive Title	Units			Pre-requisite/ Co-requisite
		L E C	L A B					L E C	L A B		
CE 416	Soil Mechanics	3	3	4	ES 221	CE 426	CE Project 2	2	3	3	CE 412
CE 411	Principles of Transportation Engineering	3		3	CE 311	CE 421	Quantity Surveying	3	3	4	CE 311
CE 412	CE Project 1	2	3	3	CE 326	CE 422	Reinforced Concrete Design	3	6	5	CE 322
CE 413	Computer Software in Structural Analysis	3	3	4	CE 311	CE 423	Bridge Engineering	3	3	4	CE 322
CE 414	Design of Steel Structures	3	6	5	CE 321	CE 424	Foundation & Retaining Wall Design	3	3	4	CE 322
CE 415	Engineering Management	3		3	4 <sup>th</sup> Yr. Standing	CE 425	Construction Methods & Project Management	3	3	4	4 <sup>th</sup> Yr. Standing
<b>TOTAL</b>		<b>17</b>	<b>15</b>	<b>22</b>		<b>TOTAL</b>		<b>17</b>	<b>21</b>	<b>24</b>	