



**BACHELOR OF SCIENCE IN CIVIL ENGINEERING  
(Specialized in Construction Engineering and Management)**

Classification/Field	Total No. of Hours		Total Units
	Lecture	Lab/Fldw /Comp	
<b>I. TECHNICAL COURSES</b>			
A. Mathematics			
1. Mathematics for Engineers	4	0	4
2. Calculus 1	4	0	4
3. Calculus 2	4	0	4
4. Differential Equation	3	0	3
5. Engineering Data Analysis	3	0	3
6. Numerical Solutions to CE Problems	2	3	3
<b>Sub-Total</b>	<b>20</b>	<b>3</b>	<b>21</b>
B. Natural/Physical Sciences			
1. Chemistry for Engineers	3	3	4
2. Physics for Engineers (Calculus-Based)	3	3	4
3. Geology for Civil Engineers	2	0	2
<b>Sub-Total</b>	<b>8</b>	<b>6</b>	<b>10</b>
C. Basic Engineering Sciences			
1. Civil Engineering Orientation	2	0	2
2. Engineering Drawing and Plans	0	3	1
3. Computer Fundamentals and Programing	0	6	2
4. Computer-Aided Drafting	0	3	1
5. Statics of Rigid Bodies	3	0	3
6. Dynamics of Deformed Bodies	2	0	2
7. Mechanics of Deformed Bodies	4	0	4
8. Engineering Economics	3	0	3
9. Technopreneurship 101	3	0	3
10. Engineering Management	2	0	2
<b>Sub-Total</b>	<b>19</b>	<b>12</b>	<b>23</b>
D. Allied Courses			
1. Engineering Utilities 1	3	0	3
2. Engineering Utilities 2	3	0	3
<b>Sub-Total</b>	<b>6</b>	<b>0</b>	<b>6</b>
E. Professional Courses (Common)			
1. Fundamentals of Surveying	3	3	4
2. Construction Materials and Testing	2	3	3
3. Structural Theory	3	3	4
4. Highway and Railroad Engineering	3	0	3
5. Building System Design	2	3	3
6. Principles of Steel Design	2	3	3
7. Principles of Reinforced/Pre-stressed Concrete	3	3	4
8. Hydraulics	4	3	5
9. Hydrology	2	0	2
10. CE Laws, Ethics and Contracts	2	0	2
11. Geotechnical Engineering 1 (Soil Mechanics)	3	3	4
12. Principles of Transportation Engineering	3	0	3

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13. Quantity Surveying	1	3	2
14. Construction Methods and Project Management	3	0	3
15. CE Project 1	1	3	2
16. CE Project 2	1	3	2
<b>Sub -Total</b>	<b>38</b>	<b>30</b>	<b>48</b>
<b>F. Professional Courses -Specialized</b>			
1. Project Construction and Management	3	0	3
2. Advanced Construction Methods and Equipment	3	0	3
3. Construction Cost Engineering	3	0	3
4. Database Management in Construction	3	0	3
5. Construction Occupational Safety and Health (COSH)	3	0	3
6. Reinforced Concrete Design	3	0	3
<b>Sub -Total</b>	<b>18</b>	<b>0</b>	<b>18</b>
<b>G. On-the-Job Training</b>			
1. On-the-Job Training (minimum 240 Hrs)	2	3	3
<b>Sub -Total</b>	<b>2</b>	<b>3</b>	<b>3</b>
<b>TOTAL TECHNICAL COURSES</b>	<b>111</b>	<b>54</b>	<b>129</b>
<b>II. Non-Technical Courses</b>			
<b>A. General Education Courses</b>			
1. Science, Technology, and Society	3		3
2. Readings in Philippine History	3		3
3. Mathematics in the Modern World	3		3
4. Contemporary World	3		3
5. Understanding the self	3		3
6. Purposive Communication	3		3
7. Art Appreciation	3		3
8. Ethics	3		3
<b>Sub -Total</b>	<b>24</b>		<b>24</b>
<b>B. GEC Electives</b>			
1. Living in the IT Era	3		3
2. Gender and Society	3		3
3. Indigenous Creative Crafts	3		3
<b>Sub -Total</b>	<b>9</b>		<b>9</b>
<b>C. Mandated Course</b>			
1. Life and Works of Rizal	3		3
<b>Sub -Total</b>	<b>3</b>		<b>3</b>
<b>D. Physical Education</b>			
1. Physical Activities Towards Health and Fitness 1	2		2
2. Physical Activities Towards Health and Fitness 2	2		2
3. Physical Activities Towards Health and Fitness 3	2		2
4. Physical Activities Towards Health and Fitness 4	2		2
<b>Sub -Total</b>	<b>8</b>		<b>8</b>
<b>E. National Service Training Program</b>			

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1. NSTP 1	3		3
2. NSTP 2	3		3
<b>Sub -Total</b>	<b>6</b>		<b>6</b>
F. Institutional Course			
1. Methods of Research	3		3
2. Technical English	3		
<b>Sub -Total</b>	<b>6</b>		<b>6</b>
<b>TOTAL NON-TECHNICAL COURSES</b>	<b>56</b>		<b>56</b>
<b>GRAND TOTAL</b>	<b>167</b>	<b>54</b>	<b>185</b>

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