



**CURRICULUM**  
**Bachelor of Industrial Technology**  
**CIVIL TECHNOLOGY**

Academic Year 2018-2019

Reference: CMO No. 20 S. 2013 and Based on PACUIT Proposal

**Curriculum Description**

The Bachelor of Industrial Technology Major in Civil Technology is a dynamic educational opportunity offering skill-based learning through class instructions, extensive laboratory experience and fieldworks. Concentrations are as follows: carpentry, architectural design technology, construction/project management, surveying and mapping, construction estimate, and soil and construction material testing.

**Program Objectives**

1. Successfully practice as engineering technologists for the welfare of the society.
2. Demonstrate a high degree of professionalism at all times.

**Program Outcomes**

Graduates will have:

- a. An appropriate mastery of the knowledge, techniques, skills and modern tools of technology
- b. An ability to apply current knowledge and adapt to emerging applications of mathematics, science and technology
- c. An ability to conduct, analyze and interpret experiments and apply experimental results to improve processes
- d. An ability to apply creativity in the design of systems, components or processes appropriate to program objectives
- e. An ability to function effectively on teams
- f. An ability to identify, analyze and solve technical problems
- g. An ability to communicate effectively in writing and in oral presentation
- h. A recognition of the need for, and an ability to engage in lifelong learning
- i. An ability to understand professional, ethical and social responsibilities
- j. The knowledge of and respect for diverse backgrounds, contemporary societal and global issues concerning the profession
- k. A commitment to quality, timeliness and continuous improvement

**Curriculum Components**

Code	Courses	Units	Total
	<b>A. General Education Courses (CMO No. 20, series of 2013)</b>		<b>36 units</b>
	<b>B. Professional and Management Courses</b>		<b>32 units</b>
PM 101	Occupational Health and Safety Management	2	
PM 102	Industrial Operation & Management Practices	3	
PM 103	Production and Operations Management	3	
PM 104	Technology Research I	3	
PM 105	Materials Technology Management	3	
PM 106	Professional Ethics	3	
PM 107	Technology Research II	3	
PM 108	Manufacturing Technology	3	
PM 109	Total Quality Management	3	
PM 110	Environmental Technology	3	
ENGG 405	Technopreneurship	3	
	<b>C. Applied Sciences and Tools Courses</b>		<b>27 units</b>
AST 111	Math for Technology	3	
AST 102	Applied Chemistry	3	
AST 105	Applied Physics	3	
AST 133	Production Drawing	2	
AST 127	Civil Technology Measurements	2	
AST 135	Computer Aided Design	2	

AST 134	Computer Programming	3	
AST 115	Basic Electrical Wiring	3	
AST 110	Data Analytics	3	
AST 136	Civil CAD Applications	3	
	<b>D. Major Specialization Courses</b>		<b>36 units</b>
CVT 111	Introduction to Structures	4	
CVT 112	National Building Code	2	
CVT 121	Introduction to Surveying	3	
CVT 122	Strength of Materials	3	
CVT 211	Construction Surveying	3	
CVT 212	Plumbing	3	
CVT 221	Mechanics of Soil	3	
CVT 222	Building Technology	4	
CVT 311	Construction Materials and Testing	3	
CVT 312	Architectural Design Technology	4	
CVT 321	Construction Estimate & Planning Management	4	
	<b>E. Mandated Courses</b>		<b>14 units</b>
PE 101	Physical Fitness, Gymnastics and Aerobics	2	
PE 102	Rhythmic Activities	2	
PE 103	Individual and Dual Sports	2	
PE 104	Team Sports	2	
NSTP 111	National Service Training Program 1	3	
NSTP 121	National Service Training Program 2	3	
	<b>F. Supervised Industrial Training/OJT</b>		<b>20 units</b>

<b>SUMMARY</b>	
<b>Courses</b>	<b>Number of Units</b>
General Education	36
Applied Sciences and Tool Courses	27
Professional and Management Courses	32
Specialization/Major Courses	36
Supervised Industrial Training/OJT	20
Mandated Courses (PE & NSTP)	14
<b>TOTAL</b>	<b>165</b>

**PROGRAM OF STUDY**

<b>FIRST YEAR</b>						
<b>First Semester</b>						
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>		<b>UNITS</b>	<b>NO. OF HRS.</b>	<b>PRE-REQUISITE</b>
		<b>LEC</b>	<b>LB/SW</b>			
AST 111	Math for Technology	3	0	3	3	
AST 102	Applied Chemistry	2	3	3	5	
AST 105	Applied Physics	2	3	3	5	
AST 133	Production Drawing	1	3	2	4	
AST 127	Civil Techology Measurements	1	3	2	4	
PM 101	Occupational Health and Safety Management	2	0	2	2	
CVT 111	Introduction to Structures	2	6	4	8	
CVT 112	National Building Code	2	0	2	2	
NSTP 111	National Service Training Program 1	3	0	3	3	
PE 101	Physical Fitness, Gymnastics and Aerobics	2	0	2	2	
<b>TOTAL</b>		<b>18</b>	<b>18</b>	<b>26</b>	<b>33</b>	

<b>FIRST YEAR</b>						
<b>Second Semester</b>						
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>		<b>UNITS</b>	<b>NO. OF HRS.</b>	<b>PRE-REQUISITE</b>
		<b>LEC</b>	<b>LB/SW</b>			
GEEd 101	Understanding the Self	3	0	3	3	
GEEd 102	Mathematics in the Modern World	3	0	3	3	
GEEd 106	Purposive Communication	3	0	3	3	
GEEd 109	Science, Technology and Society	3	0	3	3	
AST 135	Computer Aided Design	1	3	2	4	AST 133
CVT 121	Introduction to Surveying	2	3	3	5	AST 127
CVT 122	Strength of Materials	3	0	3	3	AST 105
NSTP 121	National Service Training Program 2	3	0	3	3	NSTP 111
PE 102	Rhythmic Activities	2	0	2	2	PE 101
<b>TOTAL</b>		<b>21</b>	<b>6</b>	<b>25</b>	<b>24</b>	

<b>SECOND YEAR</b>						
<b>First Semester</b>						
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>		<b>UNITS</b>	<b>NO. OF HRS.</b>	<b>PRE-REQUISITE</b>
		<b>LEC</b>	<b>LB/SW</b>			
GEEd 103	Life and Works of Rizal	3	0	3	3	
GEEd 104	The Contemporary World	3	0	3	3	
Fili 101	Kontekstwalisadong Komunikasyon sa Filipino	3	0	3	3	
PM 102	Industrial Operation & Management Practices	3	0	3	3	
AST 134	Computer Programming	2	3	3	5	
AST 115	Basic Electrical Wiring	2	3	3	5	AST 105
CVT 211	Construction Surveying	2	3	3	5	CVT 121
CVT 212	Plumbing	2	3	3	5	CVT 111
PE 103	Individual and Dual Sports	2	0	2	2	PE 101
<b>TOTAL</b>		<b>22</b>	<b>12</b>	<b>26</b>	<b>34</b>	

<b>SECOND YEAR</b>						
<b>Second Semester</b>						
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CREDIT</b>		<b>UNITS</b>	<b>NO. OF HRS.</b>	<b>PRE-REQUISITE</b>
		<b>LEC</b>	<b>LB/SW</b>			
Fili 102	Filipino sa iba't ibang Disiplina	3	0	3	3	
GEEd 107	Ethics	3	0	3	3	
PM 103	Production and Operations Management	3	0	3	3	
AST 110	Data Analytics	3	0	3	3	GEEd 102, AST 111
AST 136	Civil CAD Applications	2	3	3	5	AST 135
CVT 221	Mechanics of Soil	2	3	3	5	CVT 122
CVT 222	Building Technology	2	6	4	8	CVT 111, CVT 212
PE 104	Team Sports	2	0	2	2	PE 101
<b>TOTAL</b>		<b>20</b>	<b>12</b>	<b>24</b>	<b>32</b>	

THIRD YEAR						
First Semester						
COURSE CODE	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
Litr 102	ASEAN Literature	3	0	3	3	
GEEd 105	Readings in Philippine History	3	0	3	3	
PM 104	Technology Research I	3	0	3	3	CVT 111, CVT 112, CVT 121, CVT 122, CVT 211, CVT 212, CVT 221, CVT 222
PM 105	Materials Technology Management	3	0	3	3	CVT 111, CVT 112, CVT 121, CVT 122, CVT 211, CVT 212, CVT 221, CVT 222
PM 106	Professional Ethics	3	0	3	3	
CVT 311	Construction Materials and Testing	2	3	3	5	CVT 221
CVT 312	Architectural Design Technology	2	6	4	8	CVT 222
	<b>TOTAL</b>	<b>19</b>	<b>9</b>	<b>22</b>	<b>28</b>	

THIRD YEAR						
Second Semester						
COURSE CODE	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
GEEd 108	Art Appreciation	3	0	3	3	None
PM 107	Technology Research II	3	0	3	3	*Regular Standing
PM 108	Manufacturing Technology	3	0	3	3	*Regular Standing
PM 109	Total Quality Management	3	0	3	3	*Regular Standing
PM 110	Environmental Technology	3	0	3	3	*Regular Standing
ENGG 405	Technopreneurship	3	0	3	3	*Regular Standing
CVT 321	Construction Estimate & Planning Management	2	6	4	8	CVT 311, CVT 312
	<b>TOTAL</b>	<b>20</b>	<b>6</b>	<b>22</b>	<b>26</b>	

FOURTH YEAR						
First Semester						
COURSE CODE	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
OJT 105	Supervised Industrial Training 1 (540hrs)	0	10	10	540	CVT 321
	<b>TOTAL</b>			<b>10</b>	<b>540</b>	

FOURTH YEAR						
Second Semester						
COURSE CODE	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
OJT 106	Supervised Industrial Training 2 (540hrs)	0	10	10	540	OJT 105
	<b>TOTAL</b>			<b>10</b>	<b>540</b>	

\* Regular Standing: No deficiencies on the previous semester.

**TOTAL UNITS: 165**