



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
	A. General Education Courses (CMO No. 20, series of 2013)		36 units
	B. Professional and Management Courses		32 units
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 109	Manufacturing Technology	3	
PM 110	Total Quality Management	3	
PM 111	Environmental Technology	3	
PM 112	Technopreneurship	3	
	C. Applied Sciences and Tools Courses		27 units
AST 111	Math for Technology	3	
AST 102	Applied Chemistry	3	
AST 105	Applied Physics	3	
AST 133	Production Drawing	2	
AST 127	Civil Techology 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	
	D. Major Specialization Courses		36 units
CVT 111	Introduction to Structures	4	
CVT 112	National Building Code	2	
CVT 121	Introduction to Surveying	3	
CVT 122	Strength of Material	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	
	E. Mandated Courses		14 units
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	
	F. Supervised Industrial Training/OJT		20 units

SUMMARY	
Courses	Number of Units
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
TOTAL	165

Republic of the Philippines
BATANGAS STATE UNIVERSITY
 Batangas City

COLLEGE OF INDUSTRIAL TECHNOLOGY
 Bachelor of Industrial Technology (BIT)
 Civil Technology
 Effective A.Y. 2018 - 2019

PROGRAM OF STUDY

FIRST YEAR						
First Semester						
COURSE NO.	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
AST 111	Math for Technology	3	0	3	3	None
AST 102	Applied Chemistry	2	3	3	5	None
AST 105	Applied Physics	2	3	3	5	None
AST 133	Production Drawing	1	3	2	4	None
AST 127	Civil Techology Measurements	1	3	2	4	None
PM 101	Occupational Health and Safety Management	2	0	2	2	None
CVT 111	Introduction to Structures	2	6	4	8	None
CVT 112	National Building Code	2	0	2	2	None
NSTP 111	National Service Training Program 1	3	0	3	3	None
PE 101	Physical Fitness, Gymnastics and Aerobics	2	0	2	2	None
TOTAL				26	33	
FIRST YEAR						
Second Semester						
COURSE NO.	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
Ged 101	Understanding the Self	3	0	3	3	None
Ged 102	Mathematics in the Modern World	3	0	3	3	None
Ged 106	Purposive Communication	3	0	3	3	None
Ged 109	Science Technology and Society	3	0	3	3	None
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 Material	3	0	3	3	AST 105
NSTP 121	National Service Training Program 2	3	0	3	3	NSTP111
PE 102	Rhythmic Activities	2	0	2	2	PE101
TOTAL				25	24	
SECOND YEAR						
First Semester						
COURSE NO.	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
Ged 103	The Life and Works of Rizal	3	0	3	3	None
Ged 104	The Contemporary World	3	0	3	3	None
FILI 101	Kontekstwalisadong Komunikasyon sa Filipino	3	0	3	3	None
PM 102	Industrial Operation & Management Practices	3	0	3	3	None
AST 134	Computer Programming	2	3	3	5	None
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	PE102
TOTAL				26	34	

SECOND YEAR						
Second Semester						
COURSE NO.	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
FILI 102	Filipino sa iba't ibang Disiplina	3	0	3	3	None
Ged 107	Ethics	3	0	3	3	None
PM 103	Production and Operations Management	3	0	3	3	None
AST 110	Data Analytics	3	0	3	3	GE 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 103
TOTAL				24	32	
THIRD YEAR						
First Semester						
COURSE NO.	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
LITR 102	Asean Literature	3	0	3	3	None
Ged 105	Readings in Philippines History	3	0	3	3	None
PM 104	Technology Research I	3	0	3	3	CVT 111, 112, 121, 122, 211, 212, 221, 222
PM 105	Materials Technology Management	3	0	3	3	CVT 111, 112, 121, 122, 211, 212, 221, 222
PM 106	Professional Ethics	3	0	3	3	None
CVT 311	Construction Materials and Testing	2	3	3	5	CVT 221
CVT 312	Architectural Design Technology	2	6	4	8	CVT 222
TOTAL				22	28	
THIRD YEAR						
Second Semester						
COURSE NO.	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
Ged 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
PM 111	Technopreneurship	3	0	3	3	*Regular Standing
CVT 321	Construction Estimate & Planning Management	2	6	4	8	CVT 311, CVT 312
TOTAL				22	26	
FOURTH YEAR						
First Semester						
COURSE NO.	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
OJT 1	Supervised Industrial Training 1 (540hrs)	0	10	10	540	CVT 321
TOTAL				10	540	
FOURTH YEAR						
Second Semester						
COURSE NO.	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
OJT 2	Supervised Industrial Training 2 (540hrs)	0	10	10	540	OJT 1
TOTAL				10	540	

* Regular Standing: No deficiencies on the previous semester.

TOTAL UNITS: 165