

Republic of the Philippines **BATANGAS STATE UNIVERSITY** Pablo Borbon Campus II, Alangilan, Batangas City, Philippines 4200 **COLLEGE OF INDUSTRIAL TECHNOLOGY** www.batstate-u.edu.ph Telefax: (043)425-0143 loc 2103



## CURRICULUM Bachelor of Industrial Technology DRAFTING TECHNOLOGY Academic Year 2018-2019

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

## **Curriculum Description**

The program in Bachelor if Industrial Technology Major in Drafting Technology provides knowledge in the construction of different working drawings that help improve the skills in drawing. Knowledge in graphic communication is an important factor of the course. This course includes the basic and advanced technical drawings, floor planning, architectural and structural drawings, architectural modeling and estimating. This course also contains computer-aided design concept and applications.

#### **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 131	Introduction to Design	3	
AST 134	Computer Programming	3	
AST 126	National Building Code	2	
AST 110	Data Analytics	3	
AST 115	Basic Electrical Wiring	3	

AST 132	Commercial Arts	2	
	D. Major Specialization Courses		38 units
DT 111	Technical Drawing I	4	
DT 121	Technical Drawing 2	4	
DT 122	CAD 1	3	
DT 211	Architectural Drawing 1	4	
DT 213	CAD 2	2	
DT 221	Architectural Drawing 2	4	
DT 222	CAD 3	2	
DT 311	Structural Drawing	3	
DT 312	Construction Estimating & Planning	3	
DT 313	Industrial Design 1	2	
DT 321	Machine Drawing	3	
DT 322	Architectural Modelling	2	
DT 323	Industrial Design 2	2	
	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	38			
Supervised Industrial Training/OJT	20			
Mandated Courses (PE & NSTP)	14			
TOTAL	167			

# Republic of the Philippines BATANGAS STATE UNIVERSITY

Batangas City

## COLLEGE OF INDUSTRIAL TECHNOLOGY

Bachelor of Industrial Technology (BIT)

Drafting Technology Effective A.Y. 2018 - 2019

PROGRAM OF STUDY

		FIRST YEA				
	F	irst Semest				
COURSE	COURSE TITLE		EDIT	UNITS	NO. OF	PRE-REQUISITE
NO.		LEC	LB/SW		HRS.	
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 131	Introduction to Design	2	3	3	5	None
PM 101	Occupational Health and Safety Management	2	0	2	2	None
DT 111	Technical Drawing I	2	6	4	8	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			23	28	
	F	FIRST YEA	R			
	Sec	cond Semes	ster			
COURSE		CRI	EDIT	UNITO	NO. OF	DDE DEQUISITE
NO.	COURSE TITLE	LEC	LB/SW	UNITS	HRS.	PRE-REQUISITE
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
DT 121	Technical Drawing 2	2	6	4	8	DT 111
DT 122	CADI	2	3	3	5	DT 111
NSTP 121	National Service Training Program 2	3	0	3	3	NSTP111
PE 102	Rhythmic Activities	2	0	2	2	PE101
102	TOTAL		Ů	24	25	1 2101
	IOTAL			27	45	
	SE	COND YE	AR			
		irst Semest				
COUDSE	ľ		EDIT		NO OF	
COURSE NO.	COURSE TITLE		1	UNITS	NO. OF HRS.	PRE-REQUISITE
Ged 103	The Life and Works of Rizal	LEC 3	LB/SW	2		None
			0	3	3	
Ged 104	The Contemporary World	3	0	3	3	None
FILI 101	Kontekstwalisadong Komunikasyon sa Filipino	3	0	4	3	None
						None
PM 102	Industrial Operation & Management Practices	3	0	3	3	None
AST 134	Computer Programming	3 2	0 3	3 3	3 5	None None
AST 134 AST 126	Computer Programming National Building Code	3 2 2	0 3 0	3 3 2	3 5 2	None None DT 121
AST 134 AST 126 DT 211	Computer Programming National Building Code Architectural Drafting 1	3 2	0 3 0 6	3 3 2 4	3 5 2 8	None None DT 121 DT 121
AST 134 AST 126 DT 211 DT 213	Computer Programming National Building Code Architectural Drafting 1 CAD II	3 2 2 2 1	0 3 0 6 3	3 3 2 4 2	3 5 2 8 4	None           None           DT 121           DT 121           DT 121           DT 122
AST 134 AST 126 DT 211 DT 213	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports	3 2 2 2 2	0 3 0 6	3 3 2 4 2 2	3 5 2 8	None None DT 121 DT 121
AST 134 AST 126 DT 211 DT 213	Computer Programming National Building Code Architectural Drafting 1 CAD II	3 2 2 2 1	0 3 0 6 3	3 3 2 4 2	3 5 2 8 4	None           None           DT 121           DT 121           DT 122
AST 134 AST 126 DT 211 DT 213	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports	3 2 2 2 1	0 3 0 6 3	3 3 2 4 2 2	3 5 2 8 4 2	None           None           DT 121           DT 121           DT 122
AST 134 AST 126 DT 211 DT 213	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL	3 2 2 1 2 2 1 2 5 CCOND YEA	0 3 0 6 3 0	3 3 2 4 2 2	3 5 2 8 4 2	None           None           DT 121           DT 121           DT 122
AST 134	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL	3 2 2 1 2	0 3 0 6 3 0	3 3 2 4 2 2	3 5 2 8 4 2	None           None           DT 121           DT 121           DT 121           DT 122
AST 134 AST 126 DT 211 DT 213	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL SE Sec	3 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	0 3 0 6 3 0	3 3 2 4 2 2 25	3 5 2 8 4 2	None           None           DT 121           DT 121           DT 122           PE102
AST 134 AST 126 DT 211 DT 213 PE 103 COURSE	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL	3 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	0 3 0 6 3 0 4R ster	3 3 2 4 2 2	3 5 2 8 4 2 33	None           None           DT 121           DT 121           DT 121           DT 122
AST 134 AST 126 DT 211 DT 213 PE 103 COURSE NO.	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL SE Sec	3 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	0 3 0 6 3 0 4 R Ster EDIT	3 3 2 4 2 2 25	3 5 2 8 4 2 33 NO. OF	None           None           DT 121           DT 121           DT 122           PE102
AST 134 AST 126 DT 211 DT 213 PE 103 COURSE NO. FILI 102	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL SE COURSE TITLE	3 2 2 1 2 CCOND YEA CRI LEC	0 3 0 6 3 0 4 R Ster EDIT LB/SW	3 3 2 4 2 2 25 UNITS	3 5 2 8 4 2 33 33 NO. OF HRS.	None None DT 121 DT 121 DT 122 PE102 PRE-REQUISITE
AST 134 AST 126 DT 211 DT 213 PE 103 COURSE NO. FILI 102 Ged 107	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL SE COURSE TITLE Filipino sa Iba't Ibang Disiplina Ethics	3 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	0 3 0 6 3 0 0 AR Ster EDIT LB/SW 0	3 3 2 4 2 2 25 UNITS 3	3 5 2 8 4 2 33 33 NO. OF HRS. 3	None None DT 121 DT 121 DT 122 PE102 PRE-REQUISITE None
AST 134 AST 126 DT 211 DT 213 PE 103 COURSE NO. FILI 102 Ged 107 PM 103	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL SE COURSE TITLE Filipino sa Iba't Ibang Disiplina Ethics Production and Operations Management	3 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	0 3 0 6 3 0 <b>AR</b> <b>Ster</b> <b>EDIT</b> <b>LB/SW</b> 0 0	3 3 2 4 2 2 25 UNITS 3 3 3 3	3 5 2 8 4 2 33 33 NO. OF HRS. 3 3 3 3	None None DT 121 DT 121 DT 122 PE102 PE102 PRE-REQUISITE None None None
AST 134 AST 126 DT 211 DT 213 PE 103 PE 103 COURSE NO. FILI 102 Ged 107 PM 103 AST 110	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL SE COURSE TITLE Filipino sa Iba't Ibang Disiplina Ethics Production and Operations Management Data Analytics	3 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	0 3 0 6 3 0 4 AR Ster EDIT LB/SW 0 0 0 0 0 0 0	3 3 2 4 2 2 25 UNITS 3 3 3 3 3	3 5 2 8 4 2 33 33 NO. OF HRS. 3 3 3 3 3 3	None None DT 121 DT 121 DT 122 PE102 PE102 PRE-REQUISITE None None Ged 102, AST 111
AST 134 AST 126 DT 211 DT 213 PE 103 PE 103 COURSE NO. FILI 102 Ged 107 PM 103 AST 110 AST 115	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL SE COURSE TITLE Filipino sa Iba't Ibang Disiplina Ethics Production and Operations Management Data Analytics Basic Electrical Wiring	3 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	0 3 0 6 3 0 0 <b>AR</b> <b>Ster</b> <b>EDIT</b> <b>LB/SW</b> 0 0 0 0 0 0 3	3 3 2 4 2 2 25 <b>UNITS</b> 3 3 3 3 3 3 3	3 5 2 8 4 2 33 33 3 3 3 3 3 5	None None DT 121 DT 121 DT 122 PE102 PE102 PRE-REQUISITE None None None Ged 102, AST 111 None
AST 134 AST 126 DT 211 DT 213 PE 103 E 103 COURSE NO. FILI 102 Ged 107 PM 103 AST 110 AST 115 AST 132	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL SE COURSE TITLE Filipino sa Iba't Ibang Disiplina Ethics Production and Operations Management Data Analytics Basic Electrical Wiring Commercial Arts	3 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	0 3 0 6 3 0 4R 5ter EDIT LB/SW 0 0 0 0 0 3 3 3	3 3 2 4 2 2 25 <b>UNITS</b> 3 3 3 3 3 2	3 5 2 8 4 2 33 33 3 3 3 3 3 3 3 5 4	None None DT 121 DT 121 DT 122 PE102 PE102 PRE-REQUISITE None None Ged 102, AST 111 None AST 131
AST 134 AST 126 DT 211 DT 213 PE 103 PE 103 COURSE NO. FILI 102 Ged 107 PM 103 AST 110 AST 115 AST 132 DT 221	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL SE COURSE TITLE Filipino sa Iba't Ibang Disiplina Ethics Production and Operations Management Data Analytics Basic Electrical Wiring Commercial Arts Architectural Drafting 2	3 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	0 3 0 6 3 0 <b>AR</b> <b>Ster</b> <b>LB/SW</b> 0 0 0 0 0 3 3 6	3 3 2 4 2 2 2 5 <b>UNITS</b> 3 3 3 3 3 3 2 4	3 5 2 8 4 2 33 33 3 3 3 3 3 3 3 3 3 3 3 3 4 8	None None DT 121 DT 121 DT 122 PE102 PE102 PRE-REQUISITE None None Ged 102, AST 111 None AST 131 DT 211
AST 134 AST 126 DT 211 DT 213 PE 103 PE 103 COURSE NO. FILI 102 Ged 107 PM 103 AST 110 AST 115	Computer Programming National Building Code Architectural Drafting 1 CAD II Individual and Dual Sports TOTAL SE COURSE TITLE Filipino sa Iba't Ibang Disiplina Ethics Production and Operations Management Data Analytics Basic Electrical Wiring Commercial Arts	3 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	0 3 0 6 3 0 4R 5ter EDIT LB/SW 0 0 0 0 0 3 3 3	3 3 2 4 2 2 25 <b>UNITS</b> 3 3 3 3 3 2	3 5 2 8 4 2 33 33 3 3 3 3 3 3 3 5 4	None None DT 121 DT 121 DT 122 PE102 PE102 PRE-REQUISITE None None Ged 102, AST 111 None AST 131

	Т	HIRD YEA	R			
	F	irst Semes	ter			
COURSE	COUDCE TITLE	CREDIT			NO. OF	DDE DEQUISITE
NO.	COURSE TITLE	LEC	LB/SW	UNITS	HRS.	PRE-REQUISITE
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	DT 221, DT 222
PM 105	Materials Technology Management	3	0	3	3	DT 221, DT 222
PM 106	Professional Ethics	3	0	3	3	None
DT 311	Structural Drawing	2	3	3	5	
DT 312	Construction Estimating & Planning	3	0	3	3	DT 221
DT 313	Industrial Design 1	1	3	2	4	DT 213
	TOTAL			23	27	
		HIRD YEA				
COUDEE	560	cond Seme	ster EDIT		NO OF	
COURSE NO.	COURSE TITLE		LB/SW	UNITS	NO. OF HRS.	PRE-REQUISITE
Ged 108	Art Appreciation	3	0	3	3	None
PM 107	Technology Research II	3	0	3	3	
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
DT 321	Machine Drafting & Design	2	3	3	5	DT 222
DT 322	Architectural Modelling	1	3	2	4	DT 221, DT 311
DT 323	Industrial Design 2	1	3	2	4	DT 313
	TOTAL			25	31	
	EC	) DURTH YE	4 D			
		irst Semes				
COURSE		CREDIT			NO. OF	
NO.	COURSE TITLE	LEC	LB/SW	UNITS	HRS.	PRE-REQUISITE
OJT 1	Supervised Industrial Training 1 (540hrs)	0	10	10	540	DT 321, DT 322, DT 323
	TOTAL			10	540	
	Ec.	DURTH YE				
COUDEF	E COUPON TITLE CREDIT UNUTS NO. OF DE					
COURSE NO.	COURSE TITLE		LB/SW	UNITS	NO. OF HRS.	PRE-REQUISITE
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