



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 of 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 108	Manufacturing Technology	3	
PM 109	Total Quality Management	3	
PM 110	Environmental Technology	3	
ENGG 405	Technopreneurship	3	
	C. Applied Sciences and Tools Courses		25 units
AST 111	Math for Technology	3	
AST 102	Applied Chemistry	3	
AST 105	Applied Physics	3	
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	25
Professional and Management Courses	32
Specialization/Major Courses	38
Supervised Industrial Training/OJT	20
Mandated Courses (PE & NSTP)	14
TOTAL	165

PROGRAM OF STUDY

FIRST YEAR						
First Semester						
COURSE CODE	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
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 131	Introduction to Design	2	3	3	5	
PM 101	Occupational Health and Safety Management	2	0	2	2	
DT 111	Technical Drawing I	2	6	4	8	
NSTP 111	National Service Training Program 1	3	0	3	3	
PE 101	Physical Fitness, Gymnastics and Aerobics	2	0	2	2	
TOTAL		16	15	23	28	

FIRST YEAR						
Second Semester						
COURSE CODE	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
GEd 101	Understanding the Self	3	0	3	3	
GEd 102	Mathematics in the Modern World	3	0	3	3	
GEd 106	Purposive Communication	3	0	3	3	
GEd 109	Science, Technology and Society	3	0	3	3	
DT 121	Technical Drawing 2	2	6	4	8	DT 111
DT 122	CAD 1	2	3	3	5	DT 111
NSTP 121	National Service Training Program 2	3	0	3	3	NSTP 111
PE 102	Rhythmic Activities	2	0	2	2	PE 101
TOTAL		19	9	24	25	

SECOND YEAR						
First Semester						
COURSE CODE	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
GEd 103	Life and Works of Rizal	3	0	3	3	
GEd 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 126	National Building Code	2	0	2	2	DT 121
DT 211	Architectural Drafting 1	2	6	4	8	DT 121
DT 212	CAD 2	1	3	2	4	DT 122
PE 103	Individual and Dual Sports	2	0	2	2	PE 101
TOTAL		21	12	25	33	

SECOND YEAR						
Second Semester						
COURSE CODE	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
Fili 102	Filipino sa Iba't Ibang Disiplina	3	0	3	3	
GEd 107	Ethics	3	0	3	3	
PM 103	Production and Operations Management	3	0	3	3	
AST 110	Data Analytics	3	0	3	3	GEd 102, AST 111
AST 115	Basic Electrical Wiring	2	3	3	5	
AST 132	Commercial Arts	1	3	2	4	AST 131
DT 221	Architectural Drafting 2	2	6	4	8	DT 211
DT 222	CAD 3	1	3	2	4	DT 212
PE 104	Team Sports	2	0	2	2	PE 101
TOTAL		20	15	25	35	

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	
GEd 105	Readings in Philippine History	3	0	3	3	
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	
DT 311	Structural Drawing	2	3	3	5	DT 221, DT 222
DT 312	Construction Estimating & Planning	3	0	3	3	DT 221
DT 313	Industrial Design 1	1	3	2	4	DT 212
TOTAL		21	6	23	27	

THIRD YEAR						
Second Semester						
COURSE CODE	COURSE TITLE	CREDIT		UNITS	NO. OF HRS.	PRE-REQUISITE
		LEC	LB/SW			
GEd 108	Art Appreciation	3	0	3	3	
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
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		22	9	25	31	

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	DT 321, DT 322, DT 323
TOTAL				10	540	

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
TOTAL				10	540	

* Regular Standing: No deficiencies on the previous semester.

TOTAL UNITS: 165