



Republic of the Philippines

Pamantasan ng Cabuyao

(University of Cabuyao)

COLLEGE OF COMPUTING AND ENGINEERING

Katapatan Mutual Homes, Brgy. Banay-banay, City of Cabuyao, Laguna 4025



BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING CURRICULUM 2023

First Year

First Semester					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
MAT101	Mathematics in the Modern World	3	0	3	None
PSY100	Understanding the Self	3	0	3	None
RIAD100	Science and Development of Reading	3	0	3	None
IE101	Living in the IT Era	3	0	3	None
IEP101	Foundations of Industrial Engineering	1	0	1	None
COE101	Calculus 1	3	0	3	None
COE102	Chemistry for Engineers	3	1	4	None
PHD101	PinCare Holistic Development	1	0	1	None
NS1P1	National Service Training Program 1	3	0	3	None
PE1D101	Physical Activities Toward Health and Fitness 1	2	0	2	None
TOTAL		25	1	26	

Second Semester					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
GAD101	Gender and Development	3	0	3	None
HIS101	Readings in Philippine History	3	0	3	None
HMN101	A1 Application	3	0	3	None
COM101	Purposive Communication	3	0	3	None
COE104	Calculus 2	3	0	3	COE101
COE110	Computer Aided Drafting	0	1	1	None
COE105	Calculus-based Physics	3	1	4	COE101
PHD102	PinCare Holistic Development	1	0	1	None
NS1P2	National Service Training Program 2	3	0	3	NS1P1
PE1D102	Physical Activities Toward Health and Fitness 2	2	0	2	PE1D101
TOTAL		24	2	26	

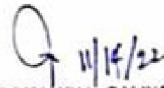
Summer (Mid-Year)					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
IEA101	Principles of Economics	3	0	3	None
IEP103	Statistical Analysis for IE 1	3	0	3	MAT101
IEP102	Introduction to Industrial Engineering	3	0	3	IEP101
TOTAL		9	0	9	

Second Year

First Semester					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
SIS101	Science, Technology and Society	3	0	3	None
SOC101	The Contemporary World	3	0	3	None
RI2101	Life and Works of Rizal	3	0	3	None
ENT101	The Entrepreneurial Mind	3	0	3	None
ETH101	Ethics	3	0	3	None
IEP104	Statistical Analysis for IE 2	3	0	3	IEP103
COE103	Computer Fundamentals	0	1	1	None
COE106	Differential Equation	3	0	3	COE104
PE1D103	Physical Activities Toward Health and Fitness 3	2	0	2	PE1D102
TOTAL		23	1	24	

Second Semester					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
IEA102	Financial Accounting	3	0	3	IEA101
IEP105	Industrial Organization and Management	3	0	3	IEP102, 2nd Year Standing
COE106	Computer Programming	0	2	2	COE103
IEP107	Advanced Mathematics for IE	3	0	3	COE106
IEP108	Ergonomics 1: Physical and Cognitive Ergonomics	2	1	3	IEP104, IEP105, IEP106
IEP109	Engineering Values and Ethics	2	0	2	ETH101, IEP105
IEA104	Elementary Electrical Engineering	3	0	3	COE105
IEP106	Industrial Materials and Processes	2	1	3	COE102, COE105
PE1D104	Physical Activities Toward Health and Fitness 4	2	0	2	PE1D103
TOTAL		20	4	24	

Summer (Mid-Year)					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
COE112	Engineering Mechanics	3	0	3	COE105
COE109	Engineering Economics	3	0	3	MAT101, 2nd Year Standing
COE113	Environmental Science and Engineering	3	0	3	COE102, 2nd Year Standing
TOTAL		9	0	9	


 ROMALYN L. GALINGAN
 Education Supervisor II
 CHEDRO IV

Third Year

First Semester					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
IEP110	Ergonomics 2: Organizational Ergonomics	2	1	3	IEP108, IEP113
IEP111	Operations Research 1	3	0	3	IEP104, IEP107
IEP112	Quality Management Systems	3	0	3	IEP104, IEP105, IEP113
IEP113	Work Study and Measurement	3	1	4	IEP104, IEP106, IEP110, IEP112
IEA103	Managerial Accounting	3	0	3	IEA102, 3rd Year Standing
TEC101	Technopreneurship	3	0	3	ENT101, 3rd year standing
IEE101	IE Elective 1	3	1	4	COE106, IEP107, IEP112, COE106
TOTAL		20	3	23	

Second Semester					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
IEP114	Operations Research 2	3	0	3	IEP111, IEP115
IEP115	Operations Management	3	1	4	IEP111, IEP112, IEP114
IEP116	Information Systems	2	1	3	IEP112, IEE101
IEP117	Methods of Research	2	0	2	IEP112, IEP113
IEA105	Thermodynamics	3	0	3	COE104, COE112
IEE102	IE Elective 2	3	1	4	IEP110, IEP113, IEE101, ICPP101
TOTAL		16	3	19	

Certification: Six Sigma White Belt

Summer (Mid-Year)					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
COE114	IE Industry Immersion (240 hrs)	3	0	3	CANDIDATES IN GRADUATION ONLY
TOTAL		3	0	3	



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Fourth Year

First Semester					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
IEP118	IE Practice and Design 1 (Feasib 1)	1	2	3	IEP115, IEP117, IEA103, IEP119
IEP119	Supply Chain Management	3	0	3	IEP115
IEE103	IE Elective 3	3	1	4	^A IEP115, ^A IEE102, ^A CPP102
TOTAL		7	3	10	

Second Semester					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
IEP120	IE Practice and Design 2	2	1	3	IEP118
IEP121	Systems Engineering	3	0	3	IEP115, IEP119, IEA103, COE111
COE111	Basic Occupational Safety and Health	3	0	3	IEP115, IEA103
TOTAL		8	1	9	

Certification: BOSH-502

SUGGESTED COGNATES / ELECTIVES					
TRACK A: PRODUCTION ENGINEERING					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
IEE101	IE Elective 1 (Computer Aided Manufacturing)	3	1	4	^A COE106, ^A IEP107 [*] (Co-reg) ^A IEP112
IEE102	IE Elective 2 (Product Design and Development)	3	1	4	^A IEP110, ^A IEP113, ^A IEE101, ^A CPP101
IEE103	IE Elective 3 (Lean Manufacturing)	3	1	4	^A IEP115, ^A IEE102, ^A CPP102
TOTAL		9	3	12	
TRACK B: ARTIFICIAL INTELLIGENCE					
Course Code	Course Title	Units			Pre/Co-Requisite
		Lec	Lab	Total	
CPP101	IE Elective 1 (Machine Learning)	3	1	4	COE106, IEP104
CPP102	IE Elective 2 (Computer Vision)	3	1	4	CPP101
CPP103	IE Elective 3 (Robotics)	3	1	4	CPP102
TOTAL		9	3	12	



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Legend: Track A - ^Axxx, Track B - ^Bxxx, Co-requisite ^{*}xxx