Revision Status / Date: 4/ 2022 March 17



## TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES

Manila

2018 CURRICULUM FOR BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING (BSIE)

IMPORTANT: REGISTRATION IN ANY COURSE WITHOUT ALL THE PREREQUISITES, CORRECT SEQUENCE AND AUTHORIZED LOAD SHALL NOT BE GIVEN ANY CREDIT REGARDLESS OF THE GRADE OBTAINED. EVALUATION IS TENTATIVE AND MAY BE REVISED FOR SOME VALID CAUSES OR REASONS OR IF OMISSIONS AND/OR LACK OF UNITS CREDITED BE DISCOVERED LATER.

		Student's Name a		ature /	/	/ . / /							
COURSE CODE		DESCRIPTIVE TITLE  DESCRIPTIVE T											
	TINOT TEAR TINOT GENERAL (10 GIATO)												
MATH	018	Calculus 1	3	0	3								
СНМ	001	Chemistry for Engineers	3	3	4								
GEC	001	Understanding the Self	3	0	3								
GEC	005	Purposive Communication	3	0	3								
	025	Discrete Mathematics	3	0	3								
PE	101	Physical Education 1	2	0	2								
NSTP	001	National Service Training Program 1	(3)	0	(3)								
		FIRST YEAR, SECOND SI			-								
MATH	019	Calculus 2	3	0	3	MATH 018							
PHYS	111	Calculus-Based Physics	3	3	4	MATH 018, MATH 019 (C)							
IE	021	Statistical Concepts, Theories and Analysis for Industrial Engineering 1	3	0	3								
GEC	004	Mathematics in the Modern World	3	0	3								
GEE	001B	GE Elective 1 - Gender and Society	3	0	3								
GEA	001	Principles of Economics	3	0	3	DE 404							
PE	102	Physical Education 2	2	0	2	PE 101							
NSTP	002	National Service Training Program 2	(3)	0	(3)	NSTP 001							
	Iaai	SECOND YEAR, FIRST S	_										
IE	201	Industrial Materials and Processes	2	3	3	PHYS 111							
CPE	102B	Computer Fundamentals and Programming	0	6	2	DUNO 444							
CE	201B	Engineering Mechanics	3	0	3	PHYS 111							
GEM	001	Life and Works of Rizal	3	0	3								
ΙE	202	Statistical Concepts, Theories and Analysis for Industrial Engineering 2	2	3	3	IE 021							
IE	203	Strategic and Industrial Organization Management	3	0	3	2nd Year Standing							
MATH	021	Differential Equations	3	0	3	MATH 019							
GEE	002B	GE Elective 2 - Living in the IT Era	3	0	3	GEE 001B							
PE	201	Physical Education 3	2	0	2	PE 102							
1.0	1404	SECOND YEAR, SECOND	T		1								
AC	101	Financial Accounting	3	0	3	GEA 001							
CPE	104	Computer-Aided Drafting	3	0	3	GEE 002B							
GEE	003B	GE Elective 3 - People and the Earth's Ecosystem Industrial and Organizational Psychology	3	0	3								
IE	204	Work Study and Measurement/Productivity Analysis	3	3	4	2nd Year Standing IE 201, IE 202, IE 203							
IE IE	014	Advanced Mathematics for Industrial Engineering	3	0	3	MATH 021							
MATH	022B	Linear Algebra with MATLAB	2	3	3	MATH 021 MATH 019, MATH 025							
TECH	101	Introduction to Engineering Entrepreneurship	3	0	3	2nd Year Standing							
PE	202	Physical Education 4	2	0	2	PE 201							
	1202	THIRD YEAR, FIRST SE			-								
GEC	002	Readings in Philippine History	3	0	3								
AC	102	Managerial Accounting	3	0	3	AC 101							
IE	312	Ergonomics 1: Physical & Cognitive Ergonomics	2	3	3	IE 204, IE 205							
IE	305	Operations Research 1: Deterministic Approach	2	3	3	MATH 022B, IE 014							
IE	306	Quality Management Systems	3	0	3	IE 202, IE 205							
ME	201A	Thermodynamics	3	0	3	MATH 019, PHYS 111							
ME	304	Engineering Economics	3	0	3	3rd Year Standing							
Elective	1		3	0	3	See track for pre-requisite(s)							
		THIRD YEAR, SECOND S	EMES"	TER (2	5 UNI	TS)							
GEC	003	The Contemporary World	3	0	3								
GEC	006	Art Appreciation	3	0	3								
EE	200C	Basic Electrical Engineering	2	3	3	PHYS 111							
IE	307	Ergonomics 2: Work Design	2	3	3	IE 312							
IE	308	Operations Research 2: Stochastic Approach with Simulation	2	3	3	IE 305, MATH 025							
IE	309	Project Feasibility	2	3	3	AC 102, ME 304							
IE	310	Production and Operations Management with Industry Software Applications		3	4	IE 305, IE 306, IE 308 (C)							
	+		3	0	3	See track for pre-requisite(s)							

OURSE CODE		DESCRIPTIVE TITLE	DING PE AND NSTP.  IPTIVE TITLE  FOURTH YEAR, FIRST SEMESTER (24 UNITS)					
		FOURTH YEAR, FIRST S	SÉMEST	ER (24	UNIT	rs)		
СНМ	T008A	Environmental Science	3	0	3			
GEC	008	Ethics	3	0	3			
IE	409	Systems Engineering	3	0	3	IE 310		
IE	410	Multi-Criteria Decision Making	3	0	3	IE 308		
IE	411	IE Design Project 1	2	3		4th Year Standing, IE 410 (C)		
Elective	3		3	0	3	See track for pre-requisite(s)		
IE	412	Undergraduate Research for Industrial Engineering	1	6	3	IE 202, IE 310		
GEC	007	Science Technology and Society	3	0	3			
100		FOURTH YEAR, SECOND				NTS)		
BOSH	101	Basic Occupational Safety and Health	3	0	3	4th Year Standing		
IE	400	On-the-Job Training for Industrial Engineering	0	240	2	4th Year Standing		
IE	413	Industrial Engineering Values and Ethics	3	0	3	Graduating		
IE	417	IE Design Project 2	1	6	3			
IE	415	Supply Chain Management	3	0	3			
IE	416	Seminars/ Colloquia for Industrial Engineering	0	3	1			
IS	001	Information Systems  TOTAL NO. OF UNIT	3	0	3 180			
NOTE:	ALL CO	JRSES JENT MAY CHOOSE ANY OF THE TRACK ELECTIVES BELC URSES IN THE TRACK MUST BE TAKEN.  1: Organization and Decision Systems	W AND	ONCE	A TR	ACK ELECTIVE IS CHOSEN,		
IE-E1	101	Project Management	3	10	3	IE 305 (C), TECH 101		
IE-E1	102	Risk Management	3	0	3			
IE-E3	103	Special Topics and Problems in Industrial Engineering	3	0	3	IE 310		
		2: Technopreneurship		-				
TECH	102A		3	0	3	TECH 101		
TECH	103A		3	0	3	TECH 102A		
TECH	104A		3	0	3	TECH 103A		
		3: Railway Engineering						
RWE	001	Introduction to Railway Systems and Engineering	3	0	3			
RWE	002A		3	0	3			
RWE	003A		3	0	3	RWE 002A		
IRVVE		4: Data Science						
	001	Computational and Inferential Thinking with Python	3	0	3			
		Predictive Analytics and Machine Learning	3	0	3			
Track	002	Advanced Machine Learning and Deep Learning	3	0	3			

CREDENTIALS SUBMITTED:	DEFICIENCY/IES	* *	Evaluated by:	
( ) F138 ( ) PSA Birth Certificate ( ) GMC ( ) Transfer Credential ( ) F137A ( ) TOR			Received by:	