



**UNIVERSITY LIBRARIES**

**REVISED CURRICULUM  
BACHELOR IN INDUSTRIAL TECHNOLOGY (BIT)  
MAJOR IN ELECTRICAL  
(Effective First Semester, AY 2018-2019)**

**FIRST YEAR  
FIRST SEMESTER**

Subject Code: **ELT 111**

Course Title: **OCCUPATIONAL HEALTH AND SAFETY**

Course Description: This course provides the students with the knowledge needed in occupational health and safety. It also provides the necessary safety tips about how to fully care themselves while working in the company

Call No.	Author	Title of Book	Copyright date	No. of copies
HD 8051 .M36o 2020	Mantaring, Allan V.	Occupation safety and health policies of the department of public works and highways in region III : an analysis	2020	1
CIR T 55 .G64o9 201	Goetsch, David L	Occupational safety and health for technologists, engineers, and managers	2019	1
CIR T 55 .B78s3 2016	Brauer, Roger L.	Safety and health for engineers	2016	1
	Phil Hughes MBE / Ed Ferrett	Introduction to Health and Safety at Work 6 <sup>th</sup> Edition	2016	1
CIR HV 40 .J36s 2016	Jansson, Bruce S.	Social welfare policy and advocacy : advancing social justice through 8 policy sectors	2016	1
CIR TP 150.S24 .S64s2 2013	Speegle, Michael.	Safety, health, and environmental concepts for the process industry	2013	1
			<b>TOTAL</b>	<b>7</b>

Subject Code: **ELT 112**

Course Title: **BASIC ELECTRICITY**

Course Description: This course provides the students with solid founddation and principles, application of electricity, electrical components and their application. Electrical mathematics and vocabulary are also included. Emphasis in this course is on familiarization and used of electrical tools electric circuit and electrical measuring instruments.

Call No.	Author	Title of Book	Copyright date	No. of copies
	Scherz, Paul	Practical Electronics for inventors		2
		Practical electricity		3
		Basic electricity		3
		Electrical Trade Practices		2
		Electrical trade principle with online study		2



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CIR 621.301 Si64b 2000	Singer, Brtrand B.	Basic mathematics for electricity and electronics	2000	1
FIL QC 523 V45 1992	Velasco, Benjamin S.	Fundamentals of electricity : basic text-lab_manual	1992	1
CIR QA 76.73.B3 V5674 1999	Fitzgerald, A. E	Basic Electrical Engineering : circuits, electronics, machines, controls	1982	1
			<b>TOTAL</b>	<b>15</b>

Subject Code: **ELT 113**

Course Title: **BASIC ELECTRONICS**

Course Description: This includes fundamentals of direct and alternating current circuits, use of Ohm's law, Kirchoff's law and network theorems, theory and operation of resistors, inductors and capacitors in series and parallel circuits and use of testing equipment and introduction to the technical concepts of electronic components, circuits and theory; principles of current and voltage control devices; basic circuits for power supplies, amplifiers, oscillators, and use of basic test instruments and assembly of electronic products and systems.

Call No.	Author	Title of Book	Copyright date	No. of copies
		Practical electricity		3
		Basic electricity		3
	Schultz	Grob's basic electronics		2
	Platt	Encyclopedia of Electronics components vol.1		2
	Platt	Encyclopedia of Electronics components vol.2		2
	Platt	Encyclopedia of Electronics components vol.3		2
CIR 621.301 Si64b 2000	Singer, Brtrand B.	Basic mathematics for electricity and electronics	2000	1
FIL 621.38 F47s 1994	Faina, Juanito S.	Simplified basic electronics : (active components)	1994	1
CIR TK 7816 .G75 1992	Grob, Bernard	Grob Basic Electronics	1992	1
CIR 510 C775b 1970	Speegle, MichaelCooke, Nelson.	Basic mathematics for electronics	1970	1
			<b>TOTAL</b>	<b>18</b>

Subject Code: **G.E. I**

Course Title: **UNDERSTANDING THE SELF**

Course Description: The course deals with nature of identity; factors and forces that affect the development and maintenance of personal identity

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR P 53 .O94t2 2017	Oxford, Rebecca L.	Teaching and researching language learning strategies : self-regulation in context	2017	1
FIL TX 769 .P73b 2015 c.1	Prades, Corazon Barateta.	Bread and pastry production NC II : (a self learning module)	2015	1



**UNIVERSITY LIBRARIES**

REF 299.936 H861h 2012	Hubbard. L. Ron	Humanitarian restoring honor& self-respect	2012	1
			<b>TOTAL</b>	<b>3</b>

Subject Code: **G.E. FIL. I**

Course Title: **KONTEKSTWALISADONG KOMUNIKASYON SA FILIPINO (KOMFIL)**

Course Description: Ang KOMFIL ay isang praktikal na kursong nagpapalawak at nagpapalalim sa kontekswalisadong komunikasyon sa wikang Filipino ng mga mamamayang Pilipino sa kani-kanilang mga komunidad sa particular, sa buong lipunang Pilipino sa pangkalahatan. Nakatuon ang kursong ito sa makrokasanayang pakikinig at pagsasalita, gayundin sa kasanayan sa paggamit ng iba't ibang tradisyunal at modernong midya na makabuluhan sa kontekstong Pilipino sa iba't ibang antas at larangan

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL LB 1033.5 .M67k 2016 c.2	Mortera, Melvin O.	Komunikasyon at pananaliksiksawika at kulturang Pilipino / : batayangmateryalsapagkataong Filipino sabaytang II saprogramang K-12	2016	1
FIL LB 1033.50 .M67k 2016 c.1	Mortera, Melvin O.	Komunikasyon sa akademikong Filipino	2016	1
FIL LB 1033.50 .M67k 2016 c.1	Mortera, Melvin O.	Komunikasyonsaakademikong Filipino	2015	1
FIL P 92.P6 J67 2007	Jose A. Arroqante.	Siningngkomunikasyonsaakademikong Filipino	2013	1
			<b>TOTAL</b>	<b>4</b>

Subject Code: **G.E. 2**

Course Title: **MGA BABASAHIN HINGGIL SA KASAYSAYAN NG PILIPINAS**

Course Description: Mga piling primaryang sanggunian ukol sa iba't ibang yugto ng kasaysayan ng Pilipinas, pagsusuri at interpretasyon

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL DS 668 .C35k 2013 c.1	Calilung, Froilan C.	Kamalayan:kultura't kasaysayan : a college textbook in Philippine history	2013	1
FIL PL 6161 S25p 1989	Santiago, Erlinda M.	Panitikang Filipino : kasaysayan at pag-unlad pangkolehiyo	2015	1
FIL DS 664 V46 1997	Veneracion Jaime B.	Agos ng dugong kayumanggi Isang kasaysayan ng sambayanang pilipino	1997	1
			<b>TOTAL</b>	<b>3</b>

Subject Code:**DRAW 11**

Course Title: **FUND OF TECH'L SKETCHING, DRAWING AND BLUEPRINT READING**

Course Description: Fundamentals sketching and instrument drawing deals with pencil and sketching lines, study and practice of single stroke lettering both pencil and ink. This also deals with proper use and care of drawing instrument and simple geometrical construction and design.

Call No.	Author	Title of Book	Copyright date	No. of copies
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CIR TT 509 .F37 2018		Fashion sketch and illustrating book.	2018	1
CIR T 353 .G52 1986V46 1997	Giesecke, Frederick E	Technical drawing	1997	2
FIL T 353 O78 1995	Ortiz, Munsayac C.	Practical technical drawing : for high school and college students	1995	5
CIR T 353 .G63 1986	Goetsch, David L.	Technical drawing and design	1986	2
			<b>TOTAL</b>	<b>10</b>

Subject Code: **ICT 11**

Course Title: **INTRODUCTION TO INFO AND COM. TECHNOLOGY**

Course Description:

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR HD 69.P75 .S39m6 2013	Schwalbe, Kathy.	Management information technology projects	2013	1
FIL T 58.5 .A43i 2003	Albano, Gisela May A.	Introduction to information technology	2003	16
CIR QA 76.9 L65 2002	Larry Long, Nancy Long.	Computers information technology in perspective	2002	2
CIR LA E538p 2000	Espiritu, ZScorro C.	Philippine educational system : information technology	2000	4
			<b>TOTAL</b>	<b>23</b>

Subject Code: **PE 1**

Course Title: **ADVANCE GYMNASTICS**

Course Description:

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL GV 365 .A63p1 2017	Aparato, Conrado R.	Physical education and health (Volume II)	2017	1
FIL GV 365 .C35p 2016	Callo, Lualhati Fernando	Physical education and health	2016	1
CIR GV 363 .L86s3 2015	Lund, Jacalyn Lea.	Standards-based physical education curriculum development	2015	1
CIR LB 176L128t 2013	Lacia, Gerardo C	The 21st century MAPEH in action / : worktext in music,arts,physical education and health	2013	1
CIR GV 211 .F73 2012		Physical education, exercise, and sport science i n a changing society	2012	1
FIL GV 303 G48 1985	Getchell, Bud	Physical fitness a way of life	1985	1
			<b>TOTAL</b>	<b>6</b>



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Subject Code: **ELT 121**

Course Title: **ELECTRICAL INSTALLATION I**

Course Description: This course is designed on how to handle Building Electrical Installation 1. It covers knowledge, skills and attitude in electrical wiring installation. It deals with good housekeeping and safety for residential, industrial, and commercial wiring system. This includes the study of various electrical wiring methods particularly in installing and maintaining electrical wiring installation of lighting system, fixtures, motors, appliances and related equipments or machines and design of electrical plans and estimate in houses/buildings where the voltage does not exceed 600 volts and the knowledge of the latest provisions of the Philippine Electrical Code.

Call No.	Author	Title of Book	Copyright date	No. of copies
		Pkg Electrical Residential with blue prints		2
		Electrical grounding and bonding		2
		Electrical wiring residential hardcover		2
		Electrical installation and maintenance:advanced		3
	Tasarra	Electrical lay-out and estimate		3
	Geier	How to diagnose & fix everything electronics		2
	Schultz	Grob's basic electronics		2
Fil TK M358 2000	Fajardo	Electrical Layout and Estimate	2000	1
			<b>TOTAL</b>	<b>11</b>

Subject Code: **ELT 122**

Course Title: **ELECTRICAL HOUSEHOLD APPLIANCE SERVICING**

Course Description: This course consists of design, connection, construction, repair and trouble shooting of common household appliances. It also deals with the servicing of such as lighting Appliances, Motor Driven Appliances, their circuit simple trouble connection common defects and probable remedies and related technology on appliance operation, the acceptable norms and values will also be learned simultaneously with skills development.

Call No.	Author	Title of Book	Copyright date	No. of copies
	Eric Kleinert	Electrical appliances services, troubleshooting & repair	2012	2
	Geier	How to diagnose & fix everthing electronics		2
	Schultz	Grob's basic electronics		2
			<b>TOTAL</b>	<b>6</b>

Subject Code:**DRAW 12**

Course Title: **ADVANCE TECH'L SKETCHING, DRAWING AND BLUEPRINT READING**



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Course Description:

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR TT 509 .F37 2018		Fashion sketch and illustrating book.	2018	1
CIR T 353 .M33e6 2017	Madsen, David A.	Engineering drawing and design	2017	1
CIR T 353 .G54t 2016	Giesecke, Frederick E	Technical drawing with engineering graphics	2016	1
CIR T 379 .B46b9 2014	Bennett, A. E.,	Blueprint reading for welders	2014	1
CIR T 353 .G52 1986V46 1997	Giesecke, Frederick E	Technical drawing	1983	3
FIL T 353 O78 1995	Ortiz, Munsayac C.	Practical technical drawing : for high school and college students	1995	5
CIR T 353 .G63 1986	Goetsch, David L.	Technical drawing and design	1986	2
			<b>TOTAL</b>	<b>13</b>

Subject Code: **G.E. 3**

Course Title: **THE CONTEMPORARY WORLD**

Course Description: The globalization and its impact on individuals, communities and nations, challenges and responses.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR HM 585 .G53e2 2017	Giddens, Anthony	Essential concepts in sociology	2017	1
CIR JF 1351 .R33g 2015	Raadschelders, Jos C.N.	Global dimensions of public administration and governance : a comparative voyage.	2015	1
CIR HD 30.335 .E54 2015		E-business : a global scenario.	2015	1
CIR GE 149 .S54 2015	Attfield, Robin	Significant concepts in global environmental change.	2015	1
CIR HD 62.4 .P46g3 2014	Peng, Mike W.	Global strategic management	2014	1
			<b>TOTAL</b>	<b>5</b>

Subject Code: **G.E. FIL. 2**

Course Title: **FILIPINO SA IBA'T-IBANG DISIPLINA (FILDIS)**

Course Description: Ang FILDIS ay isang praktikal na kursong nagpapalawak at nagpapalalim sa kasanayan sa malalim at mapanuring pagbasa, pagsulat at pananaliksik sa wikang Filipino sa iba't ibang larangan, sa konteksto ng kontemporaryong sitwasyon at mga pangangailangan ng bansa at ng mga mamamayang Pilipino. Nakatuon ang kursong ito sa makrokasanayang pagbasa at pagsulat, gamit ang mga makabuluhang pananaliksik sa wikang Filipino, bilang lunsaran ng pagsasagawa ng pananaliksik



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(mula sa pangangalap ng datos at pagsulat ng borador ng pananaliksik hanggang sa publikasyon at/o presentasyon nito) na nakugat sa mga suliranin at realidad ng mga komunidad ng mga mamamayan sa bansa at maging sa komunidad ng mga Pilipino sa iba pang bansa. Saklaw rin ng kursong ito ang paglinang sa kasanayang pagsasalita, particular sa presentasyon ng pananaliksik sa iba't ibang porma at venue.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL PL 6161 S25p 2015	Santiago, Erlinda M.	Panitikang Filipino : kasaysayan at pag-unladpangkolehiyo	2015	1
FIL PL 5517 P36 2009	TumanganAlcomtiser P.	Pagbasa at pagsulatsaiba'tibangdisiplina : Filipino 2	2009	2
			<b>TOTAL</b>	<b>3</b>

Subject Code: **ICT 12**

Course Title: **COMPUTER APPLICATION IN INDUSTRY AND BUSINESS**

Course Description:

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR T 386 .H36a 2018	Hamad, Munir M.	AutoCAD 2018 : beginning and intermediate	2018	1
CIR QA 76.76 .M34e 2016	Mahalakshmi, M	8051 microcontroller architecture, programming and application	2016	1
CIR QA 76.76 .P47i2 2015	Perkovic, Ljubomir.	Introduction to computing using Python : an application development focus	2015	1
CIR QA 76.5 .H64c10 2015	Hoggatt, Jack	Century 21 computer skills and applications	2015	1
CIR QA 76.9.D3 B56m 2011	Bingham, Richard	Managing oracle fusion applications : best practices for a high-performance enterprise application management strateg	2011	1
FIL HF 5695 .Q83 1999		Quantitative techniques for business : with case analysis and computer applications	1999	3
			<b>TOTAL</b>	<b>5</b>

Subject Code: **PE 2**

Course Title: **RHYTHMIC ACTIVITIES FOLK DANCE/SOCIAL DANCES**

Course Description: This course deals with rhythmic analysis and physical activities with rhythmic patterns. It offers background of fundamental dance steps of the Philippine Fol Dance, Ballroom dances, foreign and modern dance for social recreation. It includes the background, basic steps and steps pattern analysis in order to distinguish their differences and similarities. It introduces the students t the variety of dance steps, correct body movements and style in achieving of success in dancing for enjoyment for socialization and for physical exercise and dance skill.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR GV 363 .L86s3 2015	Lund, Jacalyn Lea.	Standards-based physical education curriculum development	2015	3
CIR LB 176L128t 2013	Lacia, Gerardo C	The 21 <sup>st</sup> century MAPEH in action / : worktext in music,arts,physical education and health	2013	1





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FIL GV 303 G48 1985	Getchell, Bud	Physical fitness a way of life	1985	1
FIL GV 1703 A78 1960	Aquino, Francisca R.	Philippine Folk dance	1960	1
FIL 613.7 Oy1a 1984	Oyco, Virginia D	Aerobic dance and stretch handbook : A guide for aerobic dance instructors, recreation leaders, physical education teachers, and physical fitness	1984	2
			<b>TOTAL</b>	<b>8</b>

**SECOND YEAR  
FIRST SEMESTER**

Subject Code: **ELT 211**

Course Title: **AC-DC MACHINES I (SINGLE AND POLY PHASE MOTORS)**

Course Description: This course deals with the design, connections, construction, rewinding coils and rewinding transformers. It includes troubleshooting and maintenance of transformers and motors.

Call No.	Author	Title of Book	Copyright date	No. of copies
	Sang-Heon Kim	Electric Motor control, AC/DC		
	Henry, Tom	Electric Motors workbook		
		Practical electricity		
	Pansini	Electrical Power Distribution		2
	Bayliss	Transmission and distribution		2
			<b>TOTAL</b>	<b>4</b>

Subject Code: **ELT 212**

Course Title: **ELECTRICAL INSTALLATION 2**

Course Description: This course is design to train students in the technology of building wiring. The course deals with the development of skills in designing electrical plan for commercial and industrial wiring. It also deals with the different types of wiring method and the materials used in the wiring system. topics to be discussed include Philippine Electrical Code rules and regulations, installation skills and testing, electrical plan and estimates and troubleshooting.

Call No.	Author	Title of Book	Copyright date	No. of copies
		Electrical Grounding and Bonding		2
		Electrical Wiring Industrial		2
		Electrical installation and maintenance :advanced		3
		Electrical wiring commercial		2
		Construction lift passenger material elevator operation : intermediate (Book with DVD) workbook included		2
	Schultz	Grob's basic electronics		2





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Fil TK M358 2000	Fajardo	Electrical Layout and Estimate	2000	1
			<b>TOTAL</b>	<b>14</b>

Subject Code: **G.E. 6**

Course Title: **ART APPRECIATION**

Course Description: Develop student’s ability to appreciate, analyze and critique, work of art. This course equips students with a broad knowledge of the practical, historical, philosophical and social relevance of the arts in order to hone students ability to articulate their understanding of the arts

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR NC 997 .E92e3 2013	Evans, Poppy	Exploring the elements of design.	2014	1
FIL N 7327 .R36 2008	Ramirez, Fred	Modern art	2012	1
REF 739.27 C984y 2008	Cus, Rafael	Yin and Yang	2008	1
FIL NX 280 P36 1969	Panizo, Alfredo.	Art appreciation and aesthetic : an approach to the humanities.	1985	1
			<b>TOTAL</b>	<b>4</b>

Subject Code:**G.E. FIL 3**

Course Title: **DALUMAT NG/SA FILIPINO (DALUMATFIL)**

Course Description:Ang DALUMATFIL ay isangmaagwatnakursongnagpapalawak at nagpapalalimsaksanayansamalalim at mapanuringpagbasa, pagsulat, at pananaliksiksawikang Filipino saiba’tibanglarangan, sakontekstongkontemporaryongsitwasyon at mgapangangailanganngbansa at ngmgamamayang Pilipino. Partikularanakuatunangkursongitosamakrokanayangpagbasa at pagsulat, gamitangmgamakabuluhangpananaliksiksawikang Filipino, bilanglunsaranngpagpapalawak at pagpapalalimsakanayan, kakayahan at kamalayannmggaestudyantenamalikhain at mapanuringmakapagdalamat o “makapagteorya” sawikang Filipino, bataysamga piling lokal at dayuhangkonsepto at teoryanaakmasakontekstongkomunidad at bansa

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL LB 1033.50 .M67k 2016 c.1	Mortera, Melvin O.	Komunikasyon sa akademikong Filipino	2016	1
FIL LB 1033.5 .M67k 2016 c.2	Mortera, Melvin O.	Komunikasyon at pananaliksik sa wika at kulturang Pilipino / : batayang materyal sa pagkatao ng Filipino sa baytang II sa programang K-12	2016	1
FIL PL 5517 B47m 2002	Rolando A. Bernales ...[etc].	Mabisang retorika sa wikang filipino : batayan at sanayang-aklat sa filipino 3, antas-tersyaryo	2002	1
FIL PL 5517 P36 2009	Tumangan Alcomtiser P.	Pagbasa at pagsulat sa iba't ibang disiplina : Filipino 2	2009	2
			<b>TOTAL</b>	<b>5</b>



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Subject Code: **G.E. 5**

Course Title: **PURPOSIVE COMMUNICATION**

Course Description: Writing, speaking and presenting to different audiences and for various purposes

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR HF 5718 .G87e 2017	Gupta, Sanjay.	Communication skills	2017	1
FIL TK 5102.5 .V55c 2016	Villar, Michael John M.	Communication engineering	2016	1
CIR PE 1128.A2 .J33c 2016	Jadhao, Nitin R	Communication skills and english language teaching		1
FIL PE 1130.3 .L39d c.1	Lazo, Jennifer T.	Developing 10english communication skills for college learners : (a work text for college 10english)	2015	3
CIR 658.45 H223c 2004	Hargie, Owen	Communication skill effective management	2004	1
CIR HF 5718 .G87e 2017	Gupta, Sanjay.	Communication skills	2017	1
			<b>TOTAL</b>	<b>7</b>

Subject Code: **G.E. 4**

Course Title: **MATHEMATICS IN THE MODERN WORLD**

Course Description: Nature of mathematics, appreciation of its practical, intellectual and aesthetic dimensions, and application of mathematical tools in daily life.

Call No.	Author	Title of Book	Copyright date	No. of copies
DIS LB 1707 .B185i 2018	Bulalayao, Leonides E	ICT- based instructional materials in mathematics	2018	1
FIL QA 11 .P37g 2016 c.1	Parreño, Elizabeth B	General mathematics : (for Senior High Schoo	2016	1
CIR QA 39.3 .T87 2015	Tussy, Alan S.	Basic college mathematics with early integers	2015	2
CIR QA 39.3 .B45 2014	Bello, Ignacio	Topics in contemporary mathematics	2014	2
CIR QA 39.3 .R65 2014	Rolf, Howard L.	Finite mathematics	2014	1
CIR QA 11.2 .B3645 2014	Basta, Alfred	Mathematics for information technology	2014	1
FIL QA 393 C34 2010	Cabero, Jonathan B.	Discrete mathematics 1	2010	2
CIR 510 B171m 1993	Balch, Kay	Mathematics : applications and connections	1993	1
CIR QA 401 .G55 2014	Giordano, Frank R.	A First course in mathematical modeling		1
			<b>TOTAL</b>	<b>12</b>

Subject Code: **P.E.3**



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Course Title: **ADVANCED INDIVIDUAL/DUAL SPORT**

Course Description: The course will provide the student with fundamental skills of team sports of their choice, e.g. baseball, basketball, sepak takraw, volleyball, soccer, etc. it includes the background, theory, demonstration and practice of game. Emphasis is on appreciation and its carry – over value in later life

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QC 26 .L57 2016	Lisa, Michael.	The physics of sports	2016	1
CIR RD 97 .E47 2015	Casa, Douglas J., . Stearns, Rebecca L	Emergency management for sport and physical activity	2015	1
FIL GV 885.35 .S87p 2014 c.1	Cecilia B. Surio.	Physical fitness and basketball	2014	3
CIR GV 211 .F73 2012	Freeman, William Hardin, 1943	Physical education, exercise, and sport science I n a changing society	2012	1
FIL GV 303 G48 1985	Getchell, Bud	Physical fitness a way of life	1985	1
FIL 613.7 Oy1a 1984	Oyco, Virginia D	Aerobic dance and stretch handbook : A guide for aerobic dance instructors, recreation leaders, physical education teachers, and physical fitness enth	1984	2
FIL 613.7 M764y 1975	Montes, Bernardino T	Youth development training : physical education health education scouting citizenship training	1975	1
			<b>TOTAL</b>	<b>10</b>

**SECOND YEAR  
SECOND SEMESTER**

Subject Code: **ELT 221**

Course Title: **BASIC PNEUMATICS/HYDRAULICS**

Course Description: It covers the basic principle, operation and application of hydraulic and pneumatics. And includes the common components such as Compressor, Pump, Actuators, Rotary drives, Flow control Valves, Solenoid, and Manual, Mechanical hydraulics, ang Pneumatics Actuation. It also covers the simulation of different task and project in hydraulic and Pneumatic. Troubleshooting procedures and preventive maintenance of different hydraulics and pneumatics installation and components.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR TJ 840 .D34 2009	Daines, James R.	Fluid power hydraulics and pneumatics	2009	1
			<b>TOTAL</b>	<b>1</b>

Subject Code: **ELT 222**

Course Title: **INDUSTRIAL MOTOR CONTROL**



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Course Description: This course deals with the study of the different types of standard single-phase and three-phase motor, which are commonly used for industrial applications. It includes the principle of operation, construction, standard terminal markings and connection, design standards and specifications (e.g. mounting frame, ventilation, etc.). It also deals with the different types of motor controls used in various industries, preventive maintenance and trouble shooting of motor power circuit and control circuits. The students will perform the exercises on simulated faults on the troubleshooting board. It also includes the different switching control, devices, i.e. photo sensors, limit switches, flow switches, etc. A discussion of the Philippine Electrical Code for motor installation such as branch conductor, over current protection, overload protection and contractor will also be held

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR TK 2851 .H47i7 2014	Herman, Stephen L.	Industrial motor control	2014	1
			<b>TOTAL</b>	<b>1</b>

Subject Code: **ELT 223**

Course Title: **AC-DC MACHINES 2 (TRANSFORMER & GENERATOR)**

Course Description: This course consists of design, connection, construction and rewinding coils, rewinding small transformer, generator and motors. It involves standards and specification for all machines, electrical and mechanical (frames, mounting, bearing installation and temperature) part of the workshop are techniques and pointers on testing trouble shooting and maintenance.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR TK 2551 .K85t 2013	Kulkarni, S.V.	Transformer engineering : design, technology, and diagnostics	2013	1
			<b>TOTAL</b>	<b>1</b>

Subject Code: **G.E. 7**

Course Title **SCIENCE, TECHNOLOGY AND SOCIETY**

Course Description: Interactions between science and technology and social, cultural, political, and economic contexts which shape and are shaped by them; specific examples throughout human history of scientific and technological developments.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL Q 163 .M133s 2017	Madriaga, Estrellita	Science links : worktext for scientific and technological literacy	2017	1
FIL QA 76.9 .E47 2016		Empowerment technologies	2016	1
CIR TT 958.3 .B68m3 2015	Botero, Alisha Rimando	Milady standard nail technology	2015	1
CIR TA 169 .R43 2012		Design for reliability.	2012	1
CIR U 27 .S74w 2009	Morillo, Stephen.	War in world history : society, technology, and war from ancient times to the present	2009	1
CIR Q 175.5 .M674 2006	Mosteiro, Arnaldo P.	Science technology and society : {a text-workbook)	2006	2
CIR Q 75i B187s 2004	Ballene-Seludo, Naressia D	Science, technology, society	1999	2
CIR T 262 S416 1993	Charles McFadden, Robert E.	Science plus : technology and society	1993	2



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		<b>TOTAL</b>	<b>11</b>
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Subject Code: **G.E. 9**

Course Title: **THE LIFE AND WORKS OF JOSE RIZAL**

Course Description: The life of Dr. Jose Rizal, his idea and ideals are reflected in his writings

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL DS 675.8.R5 .D48j3 2014	De Viana, Augusto V.	Jose Rizal in our times : a guide for the better understanding of the Philippines' foremost national hero	2014	1
FIL DS 675 .Z35 2007	Zaide, Gregorio F.	Jose rizal: buhay, mga ginawa at mga sinulat ng isang henyo,manunulat, siyentipiko at pambansang bayani	2007	1
FIL DS 675 Z34 2003	Zaide, Gregorio F.	Jose Rizal : life, works, and writings	2003	1
CIR DS 675.8 A33 1995	Acibo, LibertAmorganda.	Jose P. Rizal : his life, works, and role in the Philippine revolution	1995	3
FIL 529 R529j 1994	Zaide, Gregorio F.	Jose rizal: life, works and writings of a genius, writer, scientist and national hero	1994	2
			<b>TOTAL</b>	<b>8</b>

Subject Code: **G.E. 8**

Course Title: **ETHICS**

Course Description: : Principles of ethical behaviour in modern society at the level of the person, society, and in interaction with the environment and other shared resources.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR JF 1525.E8 .B69p 2015	Browman, James S.	Public service ethics : individual and institutional responsibilities	2015	1
CIR QH 332 .B16 2014		Bioethics.	2014	1
CIR K 123 M34 2010	Maboloc, Christopher Ryan	Ethics and human dignity	2010	2
CIR HF 5387 .S73u 2009	Stanwick, Peter A	Understanding business ethics	2009	1
CIR HF 5387 .E84 2009		Ethics applied.	2009	1
CIR RT 85 H46 2000	Hendrick, Judith	Law and ethics	2004	2
FIL JQ 1409.5 .E8 1989		Ethics in public office : readings.	1989	3
			<b>TOTAL</b>	<b>9</b>

Subject Code: **P.E. 4**

Course Title: **ADVANCED TEAM SPORTS**

Course Description: The course will provide the student with fundamental skills of team sports of their choice, e.g. baseball, basketball, sepak takraw, volleyball, soccer, etc. it includes the background, theory, demonstration and practice of game. Emphasis is on appreciation and its carry – over value in later life



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Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QC 26 .L57 2016	Lisa, Michael.	The physics of sports	2016	1
CIR RD 97 .E47 2015	Casa, Douglas J., . Stearns, Rebecca L	Emergency management for sport and physical activity	2015	1
FIL GV 885.35 .S87p 2014 c.1	Cecilia B. Surio.	Physical fitness and basketball	2014	3
CIR GV 211 .F73 2012	Freeman, William Hardin, 1943	Physical education, exercise, and sport science i n a changing society	2012	1
FIL GV 303 G48 1985	Getchell, Bud	Physical fitness a way of life	1985	1
FIL 613.7 Oy1a 1984	Oyco, Virginia D	Aerobic dance and stretch handbook : A guide for aerobic dance instructors, recreation leaders, physical education teachers, and physical fitness enth	1984	2
FIL 613.7 M764y 1975	Montes, Bernardino T	Youth development training : physical education health education scouting citizenship training	1975	1
			<b>TOTAL</b>	<b>10</b>

**THIRD YEAR  
FIRST SEMESTER**

Subject Code: **ELT 311**

Course Title: **ELECTRO PNEUMATICS**

Course Description: This covers the operation and application of standard pneumatics and electrical components such as electro-pneumatics valves, electrical sensors, transducers and actuators. Standard design techniques for logic functions and sequencing using ladder diagram circuit are explained. It also deals with the troubleshooting procedures and preventive maintenance of different pneumatics and electro-pneumatics components. Emphasis will be on design and operation, testing, and simulation of various practical circuits.

Call No.	Author	Title of Book	Copyright date	No. of copies
		Electrotechnology practice with online study		2
CIR TK 2551 .K85t 2013	Kulkarni, S.V.	Transformer engineering : design, technology, and diagnostics	2013	1
			<b>TOTAL</b>	<b>3</b>

Subject Code: **ELT 312**

Course Title: **POWER UTILIZATION AND DISTRIBUTION SYSTEM**

Course Description: This course will tackle the power utilization of residential, commercial and industrial consumers and also the power distribution of generating plant from electrical generating plant down to bulk transformer, transmission line, substation, secondary distribution transformer to consumers. And this block





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deals with the type of equipment, techniques and problems involves in transmitting electrical energy over long distances from the generator to the device that puts the energy to work.

Call No.	Author	Title of Book	Copyright date	No. of copies
	Pansini	Electrical Power Distribution		3
	Bayliss	Transmission and distribution		3
	Kirtley.Jr.	Electric Motor handbook		3
		Line Construction (electric power distribution): intermediate (book with DVD)		2
		Electrical transformer motor rewinding & troubleshooting		3
CIR TK 2551 .K85t 2013	Kulkarni, S.V.	Transformer engineering : design, technology, and diagnostics	2013	1
	Frenzel	Principles of electronics communication system		2
			<b>TOTAL</b>	<b>17</b>

Subject Code: **ELT 313**

Course Title: **POWER TRANSFORMER BANKING AND CONNECTIONS**

Course Description: This course deals with the study of the components, capacity, types, banking and different connections of distribution line transformer including single phase, two phase and three phase connection.

Call No.	Author	Title of Book	Copyright date	No. of copies
	Sang-Hoon Kim	Electric Motor control, AC/DC	2017	3
	Henry, Tom	Electric Motors workbook		3
	Geier	How to diagnose & fix everything electronics		2
	Pansini	Electrical Power Distribution		3
	Bayliss	Transmission and distribution		3
	Kirtley.Jr.	Electric Motor handbook		3
		Electrical transformer motor rewinding & troubleshooting		3
	Schuler	Electronics principles and applications		2
	Monk	30 Arduino project for the evil genius		2
	Schultz	Grob's basic electronics		2
	Frenzel	Principles of electronics communication system		2
			<b>TOTAL</b>	<b>28</b>

Subject Code: **IT 31**

Course Title: **INDUSTRIAL ENVIRONMENT AND SANITATION**

Course Description: It deals with the proper maintenance and control of work environment for the protection of health and welfare worker and the whole industry. It includes the systems, operating methods, appropriate standards and practices in the industrial environment for a more effective interaction between worker and the work environment.

Call No.	Author	Title of Book	Copyright date	No. of copies
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DIS 658 F933b 2015	Fronza Jennifer Garcia	The Business environment of selected direct selling companies in Cabanatuan City	2015	1
AV RC 86.7 .A44e 2007	Aehlert, Barbara	Emergency medical responder first responder in action	2007	1
IR HB 172 .M36p8 2018	Mankiw, N.Gregory.	Principles of macroeconomics	2018	1
	Andres, j.	Quality assurance for the food industry		2
	Herschdoerfer	Quality control in food industry		2
CIR HF 5548.8 .M35p 1982	Maier, Norman R. Riggs, James L.F.	Psychology in industrial organizations	1982	1
CIR 658 In2i 1979		Industrial organization and management	1979	1
			<b>TOTAL</b>	<b>8</b>

Subject Code:IT 32

Course Title:INDUSTRIAL ORGANIZATION

Course Description:The main purpose of the industrial organization course is to present an overview of the operations of an industrial organization, the inter relationship of functions and the fundamental principles of management which lead to effective coordination and control. This also includes the survey of industrial systems while highlighting the individual skill needed to make an enterprise work better. This is designed to provide a broad introduction to topics and industries that current researchers are studying as well as to expose students to a wide variety of techniques.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR HB 172 .M36p8 2018	Mankiw, N.Gregory.	Principles of microeconomics	2018	1
CIR HF 5415.5 C65c 2015	Coleman, Lance B.,Sr.	The Customer-driven organization : employing the Kano model	2015	1
CIR JF 1351 .R33g 2015	Raadschelders, Jos C.N.	Global dimensions of public administration and governance : a comparative voyage.	2015	1
CIR HF 5548.8 .M35p 1982	Maier, Norman R. Riggs, James L.F.	Psychology in industrial organizations	1982	1
CIR 658 In2i 1979		Industrial organization and management	1979	1
			<b>TOTAL</b>	<b>5</b>

Subject Code:IT 33

Course Title:INDUSTRIAL RESEARCH

Course Description:This subjects deals with the conceptualization of a project proposal based on the line of work / specialization of the student. It includes the study of research methodology as employed in applied research and the process of preparing a project report.

Call No.	Author	Title of Book	Copyright date	No. of copies
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CIR HF 5548.8 .S74i 2012	Spector, Paul E.	Industrial and organizational psychology : research and practice	2012	1
CIR HD 30.4 .C66b 2011	Cooper, Donald R	Business research method	2011	1
CIR 658.403 M613i 1984	Miller, David M.	Industrial engineering and operations research	1984	1
			<b>TOTAL</b>	<b>3</b>

**THIRD YEAR  
SECOND SEMESTER**

Subject Code: **ELT 321**

Course Title: **BASIC PLC**

Course Description: It deals with the operation, application, troubleshooting procedures, preventive maintenance, basic capabilities, functional features, and specification of programmable logic controller (PLC). Emphasis will be on programming and operation, testing, and simulation of various practical circuits.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QA 76.9.A73 .D48i3 2015	Detmer, Richard C.	Introduction to 80X86 assembly language and computer architecture	2015	1
CIR TK 7895 .H83a 2014	Huang, Han-way.	The Atmel AVR microcontroller : / Mega and XMega in assembly and C	2014	1
		Instrumentation & contract servicing: intermediate (book with DVD) workbook included		2
	Bolton, W.	Programmable Logic Controller		1
	Kandray, D.	Programmable Automation Technologies		1
			<b>TOTAL</b>	<b>6</b>

Subject Code: **ELT 322**

Course Title: **INDUSTRIAL ELECTRONICS**

Course Description: This subject deals with the study of basic principles and application of electronic devices as applied in industrial machineries such as control, timer, precision equipment, quality control, automation, photocell and relays.

Call No.	Author	Title of Book	Copyright date	No. of copies
	Schuler	Electronics principles and applications		2
	Monk	30 Arduino project for the evil genius		2
	Schultz	Grob's basic electronics		2
	Frenzel	Principles of electronics communication system		2
			<b>TOTAL</b>	<b>8</b>

Subject Code: **ELT 323**



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Course Title: **MICROPROCESSOR AND COMPUTER**

Course Description: This course deals with the study of microprocessor, its supporting devices and how it can be interfaced in the outside world.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QA 76.9.A73 .D48i3 2015	Detmer, Richard C.	Introduction to 80X86 assembly language and computer architecture	2015	1
CIR TK 7895 .H83a 2014	Huang, Han-way.	The Atmel AVR microcontroller : / Mega and X Mega in assembly and C	2014	1
	Bolton, W.	Programmable Logic Controller		
	Kandray, D.	Programmable Automation Technologies		
			<b>TOTAL</b>	

Subject Code: **IT 34**

Course Title: **ENTREPRENEURSHIP WITH COOPERATIVES**

Course Description:

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL HB 615 .M67e 2016	Morato, Eduardo, Jr	Entrepreneurship	2016	1
CIR HD 62.7 .E77 2015		Essentials of entrepreneurship.	2015	1
CIR HB 615 .K87e 2012	Kuratko, Donald F.	Entrepreneurship : an introduction	2012	1
FIL HB 615 .S36s 2000	Sanchez, Marlon	A Smart and practical guide for new entrepreneurs : be smart! start and manage your own business	2000	1
CIR HF 5386 .H45e 2000	Heinecke, William E.	The Entrepreneur : twenty-one golden rules for the global business manager	2000	1
			<b>TOTAL</b>	<b>5</b>

**FOURTH YEAR  
FIRST SEMESTER**

Subject Code: **ELT 411**

Course Title: **PROJECT STUDY**

Course Description: This subject is focused on developing and writing project feasibility study. Guidelines in conceptualizing and writing project feasibility study will be discussed. Students may opt to write studies on developing Business and technical developmental research projects.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR LC 71 .H36e 2017	Hammond, Linda Darling.	Empowered educators : how high-performing systems shape teaching quality around the world	2017	1



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CIR TJ 223 .H84a1 2016	J.M. Hughes.	Arduino : a technical reference : a handbook for technicians, engineers, and makers	2016	1
CIR TH 438 .C66m 2013	Cooke, Brian	Management of construction projects	2013	1
FIL 658.57 C99b 2001	Cuyugan, Jorge H	A business planning manual : a project feasibility study guidebook for filipino students... and entrepreneurs	2001	1
FIL TE 175 .S26p 1996	Sanares, Romeo A.	Project study / road construction.	1996	1
			<b>TOTAL</b>	<b>5</b>

Subject Code: **ELT 412**

Course Title: **PROJECT STUDY**

Course Description: It deals with the design and principle of operation of Programmable Logic Controllers (PLC's), writing and implementing simple programs and applications of PLC's in industries, translation of control tasks into fully operational PLC programs - testing and documenting programs using the control system.

Call No.	Author	Title of Book	Copyright date	No. of copies
		Instrumentation & control servicing: intermediate (book with DVD) workbook included		2
CIR TH 438 .C66m 2013	Cooke, Brian	Management of construction projects	2013	1
FIL 658.57 C99b 2001	Cuyugan, Jorge H	A business planning manual : a project feasibility study guidebook for filipino students... and entrepreneurs	2001	1
FIL TE 175 .S26p 1996	Sanares, Romeo A.	Project study / road construction.	1996	1
			<b>TOTAL</b>	<b>5</b>

Subject Code: **ELT 413**

Course Title: **PHIL. ELECTRICAL CODE**

Course Description: This course it covers the basic materials quality and electrical work standards for the safe use of electricity for light, heat, power, communications, signaling and other purposes. It also covers the safety in electrical installation and construction, but not necessarily efficient, convenient, or adequate for good service or future expansion of electrical use.

Call No.	Author	Title of Book	Copyright date	No. of copies
	IIEE PInc.	Philippines Electrical Code		1
			<b>TOTAL</b>	

Subject Code: **IT 41**

Course Title: **HUMAN RESOURCE MANAGEMENT**



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Course Description:

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR HF 5549.2 .H65h10 2017	Hollenbeck, John R.	Human resource management : gaining a competitive advantage	2017	1
CIR HF 5549 .S53h 2016	Sharma, K.C.	Human resource management and professional ethics	2016	1
CIR HF 5549 .B37s7 2013	Barrick, Murry	Selection in human resource management	2013	2
CIR HF 5549 .N64f3 2009	Noe, Raymond A.	Fundamentals of human resource management	2010	1
CIR HF 5549 .D43f 2007	Decenzo, David A.	Fundamentals of human resource management	2007	1
CIR HF 5549.5 .H86 2007	Melva M. Diamante, Genevieve Ledesma-Tan,	Human resource management local and global perspectives	2007	2
CIR HF 5549.2 .H65h3 2000	Noe, Raymond A	Human resource management : gaining a competitive advantage	2010	1
			<b>TOTAL</b>	<b>9</b>

**Subject Code:IT 43 NO LATEST BOOK**

Course Title:**INDUSTRIAL PLANNING AND MATERIALS HANDLING**

Course Description:It deals with different techniques and fundamentals of industrial operations. It includes the fundamentals on relationship, space and adjustment for planning and the fundamentals on materials, movement and methods for planning handling. It also includes the different phases of planning with the interrelationship to the different method, system and principles of materials handling.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL HD 30.28 .P63s 2006	Poblador, Niceto S.	Strategy demythicized : why today's business models fail to deliver	2012	1
			<b>TOTAL</b>	<b>1</b>

Subject Code:ELP

Course Title:**ENGLISH FOR INDUSTRIAL TECHNOLOGIES**

Course Description:

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR PE 1128.A2 .P38e 2016	Paul, D.S.	English language and linguistics : a simplified approach	2016	1
FIL PE 1130.3 .L39d c.1	Lazo, Jennifer T.	Developing english communication skills for college learners : (a work text for college english)	2015	1
THE PE 1128 .E87i 2019	Esquivel, Ronel B.	Intrinsic and extrinsic motivation in learning english as a second language	2019	1
			<b>TOTAL</b>	<b>3</b>



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**FOURTH YEAR  
SECOND SEMESTER**

Subject Code: **EELT 421**

Course Title: **INDUSTRY IMMERSION/IN-PLANT TRAINING (OJT)**

Course Description: This course is designed to provide the trainees the opportunity to acquire employable skill competencies in training field exposure from partner industry for his/ her to learn some of the professional skill related to the expertise and different field of specialization to transfer technology and practical training on the job.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL Q 163 .I67 2019		Inquiries, investigations and immersions	2019	1
FIL HN 720 L56 2004	Linao, Rex T.	Community Immersion : Toward becoming agents of community empowerment	2004	1
			<b>TOTAL</b>	<b>2</b>


Subject Code: **EELT 422**

Course Title: **FORUM ON INDUSTRY IMMERSION**

Course Description: This course is intended to provide technical skills and knowledge in the forum on industry immersion of the industrial work force and technology transfer in the effective skills training curriculum programs of the bachelor of Industrial Technology

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR TP 150.S24 .S64s2 2013	Speegle, Michael.	Safety, health, and environmental concepts for the process industry	2013	1
CIR RA 410 .S26 2010	Santerre, Rexford E.	Health economics theories, insights, and industry studies	2010	1
			<b>TOTAL</b>	

Prepared by:

  
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Library Staff



Republic of the Philippines

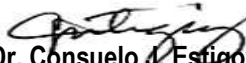
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