

**UNIVERSITY LIBRARIES**

**REVISED CURRICULUM IN
BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE
Effective 1st semester, AY 2018-2019
BOR NO. 105, S. 2007**

FIRST YEAR FIRST SEMESTER

Subject Code: **GE FIL 1**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	3
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	2
FIL P 92.P6 J67 2007	Jose A. Arrogante.	Siningngkomunikasyonsaakademikong Filipino	2013	2
			TOTAL	8

Subject Code: **CHEM 115**Course Title: **INORGANIC CHEMISTRY**

Course Description: Properties of matter, classifications, properties and laws that encompasses their behavior towards different

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QD 151.5 .S57 2010	Dr. Suresh Kautilya.	Inorganic Chemistry	2017	1
CIR QD 33 .H47c 2017	Hernandez, Jean Annerie.	Chemistry essentials : organic and inorganic	2017	1
CIR QD 45 .P89e 2016	Puyad, Avinash L.	Experiments in inorganic chemistry	2016	1
CIR QD 474 .B43e 2016	Bhatt, Vasishta.	Essentials of coordination chemistry : a simplified approach with 3D visuals	2016	1
			TOTAL	4



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Subject Code: **MATH 113**

Course Title: **COLLEGE ALGEBRA**

Course Description: Focused in the review of the fundamental operations and principles of algebra including algebraic expressions, fundamental operations on polynomials, factoring, special products, binomial theorem, the Pascal's Triangle, algebraic fractions, exponents, radicals and complex fractions, linear and literal equations.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QA 39.3 .T87 2015	Tussy, Alan S.	Basic college mathematics with early integers	2015	2
FIL QA 154 .C37c 2015 c.1	Carpio, Joy N.	College algebra	2015	1
CIR QA 152.3 .A86 2014	Aufmann, Richard N	College algebra	2014	1
CIR QA 154.2 .L384 2014	Larson, Ron	College algebra	2014	1
CIR QA 39.3 .B45 2014	Bello, Ignacio	Topics in contemporary mathematics	2014	2
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	2014	1
				8

Subject Code: **GE 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 .G37f 2015 c.2	Garcia, Carlito D	A Textbook in Philippine history for college students	2015	3
FIL DS 673.8 .G37p 2015 c.2	Garcia, Carlito D.	Philippine history and government for college students	2015	2
FIL DS 668 .C35k 2013 c.1	Calilung, Froilan C.	Kamalayan:kultura't kasaysayan : a college textbook in Philippine history	2013	2
				7

Subject Code: **GE I**

Course Title: **UNDERSTANDING THE SELF (Nature of Identity)**

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



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

Subject Code: **GE 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
			TOTAL	12

Subject Code: **PE 1**

Course Title: **PHYSICAL EDUCATION**

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



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CIR LB 176L128t 2013	Lacia, Gerardo C	The 21 st century MAPEH in action / : worktext in music,arts,physical education and health	2013	1
CIR GV 211 .F73 2012	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
			TOTAL	6

**FIRST YEAR
SECOND SEMESTER**

Subject Code: **GE 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 makrokanayang pagbasa at pagsulat, gamit ang mga makabuluhang pananaliksik sa wikang Filipino, bilang lunsaran ng pagsasagawa ng pananaliksik (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
			TOTAL	3

Subject Code:**CHEM 125**

Course Title:**ORGANIC CHEMISTRY I**

Course Description: Equip students with knowledge of the structures, properties, functions and importance of organic compounds to the environment while reviewing the basic atomic theory that describes their properties

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QD 253 V47 2017	Dr. Vijay Verma	Organic Chemistry	2017	1



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CIR QD 31.3 .S42 2014	Seager, Spencer L	Safety-scale laboratory experiments for Chemistry for today general, organic, and biochemistry	2014	1
CIR QD 251.3 .M365 2013	McMurry, John E.	Organic chemistry : a biological approach	2013	2
CIR QD 251.2 .M4 2003	McMurry, John	Fundamentals of Organic Chemistry.	2003	1
				5

Subject Code: **Math 123**

Course Title: **PLANE TRIGONOMETRY**

Course Description: Preliminary concepts are considered as pre-requisites to fully understand the Plane Trigonometry

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QA 445 .B37g5 2013	arnett Rich, Christopher Thomas.	Geometry : includes plane, analytic, and transformational geometries	2013	1
AV QA 39.2 .A94m 2008	Aufmann, Richard	Mathematical thinking and quantitative reasoning	2007	1
CIR QA 533 .S56		Simplified plane trigonometry : a work text.		1
FIL QA 533 .S35t 1989	Salangang, Lily G.	Teaching guide in plane trigonometry	1989	1
FIL QA 533 .N63 1988	Nocon, Ferdinand P.	Integrated plane trigonometry : text / workbook	1998	2
				6

Subject Code: **GE 5**

Course Title :**PURPOSIVE COMMUNICATION(Writing, speaking and Presenting to different audiences)**

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 5nglish communication skills for college learners : (a work text for college 5nglish)	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
			TOTAL	8



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Subject Code: **GE 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
FIL NX 280 P36 1969	Panizo, Alfredo.	Art appreciation and aesthetic : an approach to the humanities.	1985	1
				3

Subject Code: **GE 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
			TOTAL	11

Subject Code: **PE 2**

Course Title: **PHYSICAL EDUCATION**

Call No.	Author	Title of Book	Copyright date	No. of copies
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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 21 st century MAPEH in action / : worktext in music,arts,physical education and health	2013	1
CIR GV 211 .F73 2012	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
			TOTAL	6

**SECOND YEAR
FIRST SEMESTER**

Subject Code: **GE FIL 3**

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

Course Description: Ang DALUMATFIL ay isang maagwat na kursong nagpapalawak at nagpapalalim sa ksanayan 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. Partikular na nakatuon ang kursong ito sa makrokanayang pagbasa at pagsulat, gamit ang mga makabuluhang pananaliksik sa wikang Filipino, bilang lunsaran ng pagpapalawak at pagpapalalim sa kasanayan, kakayahan at kamalayan ng mga estudyante na malikhain at mapanuring makapagdalumat o "makapagteorya" sa wikang Filipino, batay sa mga piling lokal at dayuhang konsepto at teorya na akma sa konteksto ng komunidad 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
			TOTAL	5

**UNIVERSITY LIBRARIES**Subject Code: **CHEM 215**Course Title: **ANALYTICAL CHEMISTRY I**

Course Description: Knowledge on the laboratory processes and familiarization on the quantitative and qualitative analysis and parameters for necessary laboratory parameters.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QD 75.2 .S56f9 2014	Skoog, Douglas A.	Fundamentals of analytical chemistry	2014	1
CIR QD 75.2 .S55 2004	Skoog, Douglas A	Fundamentals of Analytical Chemistry	2004	1
CIR QC 33 G13 2013	Skoog, Douglas A	Analytical Chemistry : Fundamentals	2004	1

Subject Code: **Math 213**Course Title: **CALCULUS**

Course Description: It covers the basic concepts of differential calculus such as limits, continuity and differentiability of functions; differentiation of algebraic equations, applications of differential calculus to problems on optimization, rates of change, related rates, tangents and normals, and approximations; partial differentiation and transcendental curve tracing, integration. It also covers the basic concepts of integral calculus such as basic integration formula, integration of trigonometric functions, techniques of integration with applications of Geometry, Physics, and other fields. A logical development of fundamental principles is combined with the emphasis on computation and applied aspects which shows power of calculus in different fields.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QA 303.2 .L367 2017	Larson, Ron	Calculus an applied approach with CalcChat & CalcView	2017	1
CIR QA 303.2 .L37c10 2014	Larson, Ron.	Calculus of a single variable	2014	1
CIR QA 37.3 .W36f6 201	Waner, Stefan	Finite mathematics and applied calculus	2014	1
CIR QA 303 .L37m10 2014	Larson, Ron.	Multivariable calculus	2014	1
FIL QA 304 .C66 2005	Comandante, Felipe L. Jr.	Differential calculus : made easy!	2005	4
FIL QA 304 .N63 2001	Nocon, Ferdinand P.	Differential calculus : / made simple for filipinos text / workbook /.	2001	4
FIL QA 304 B38 1999	Batongbakal, Amalia DL	Differential calculus	1999	2
FIL QA 303 .P36s 1998	Ponopio, Felix M	Simplified differential calculus : for engineering and sciences	1998	1

Subject Code: **GE 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



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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
			TOTAL	10

Subject Code: **GE 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
			TOTAL	5

Subject Code: **ELP**

Course Title: **English for Environmentalist**

Course Description: Ability to write technical articles, reviews, and research papers. It also provide an overview of the guidelines and rules to write well written academic paper.

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
			TOTAL	3



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Subject Code: **PE 3**

Course Title:

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 21 st century MAPEH in action / : worktext in music,arts,physical education and health	2013	1
CIR GV 211 .F73 2012	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
			TOTAL	6

**SECOND YEAR
SECOND SEMESTER**

Subject Code: **Bio 225**

Course Title: **Cell and Molecular Biology**

Course Description: Describes the structure and function of cells in all their genetic, biochemical, developmental, and physiological aspects. Introduce students to the dynamic relationships between cell structure and the biochemical reactions that are necessary for cell growth, differentiation, survival and death with an emphasis on eukaryotic cells.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL QL 605 .C33b 2016 c.1	Cabrido, Avelinda Ardez	Biology 1 : (for Senior High School)	2016	1
CIR QH 308.2 .N69b 2014	Noyd, Robert K.	Biology : organisms and adaptations	2014	1
CIR QH 308.2 .R87b3 2014	Russell, Peter J.	Biology : the dynamic science	2014	1



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Subject Code: **Math 223**

Course Title: **Statistics**

Course Description: Deals with basic principles of statistics, presentation and analysis of data, averages, median, mode, deviations, probability distributions, normal curves and applications, regression analysis and correlation.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR HF 1017 .A53s13 2018	Anderson, David R	Statistics for business and economics	2018	1
CIR QA 276 .M429 2016	Mendenhall, William M.	Statistics for engineering and the sciences	2016	1
CIR QA 276 .C25 2013	Caldwell, Sally	Statistics unplugged	2013	1
CIR QA 276.12 .G53s2 2011	Gibilisco, Stan.	Statistics demystified	2011	1

Subject Code: **GE 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 henyomanunulat, 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
			TOTAL	8

Subject Code: **ES/EM 1**

Course Title: **Information Technology (Modeling & Bio Informatics)**

Course Description: Advancements in software modelling and informatics of biological systems and producing outputs from their organochemical interactions.

Call No.	Author	Title of Book	Copyright date	No. of copies
	Cochanco, Alexander S.	University document management and archiving system (UDMAS)	2017	1
	Pasion, Billie Jack Dr.	Network based multimedia instructional system	2016	1



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CIR QA 76.9.A73 .R36c5 2014	Ram, B.	Computer fundamentals : architecture and organization	2014	1
CIR TK 5105.5 .S65f2 2015	Solomon, Michael G.	Fundamentals of communications and networking	2015	1
CIR QA 76.76 .B27c 2011	Basu, P.N.	Computer fundamentals and C programming	2011	1
CIR QA 76 F25O 2009	Fajarito, Dennis T.	Computer fundamentals	2009	1
FIL T 58.5 .A43i 2003	Albano, Gisela May A.	Introduction to information technology	2003	15
			TOTAL	21

Subject Code: **ES/EM 2**

Course Title: **Pollution**

Course Description: A study of the chemistry of the atmosphere, aquatic systems and soil with emphasis on the sources, distribution, fate and effects of chemicals in these environmental systems. The course also provides an introduction to toxicology and chemical remediation.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR SH 135 C74a 2015 c.1	Creed, Roger.	Aquaculture and the environment	2015	1
CIR GE 105 .W54e2 2007	Scott, Brennan.	Environment : the science behind the stories	2007	1
CIR TD 897 .B57p 2000	Bishop, Paul L.	Pollution prevention: : fundamentals and practice	2000	1
			TOTAL	3

Subject Code: **PE III**

Course Title: **PHYSICAL EDUCATION**

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 21 st century MAPEH in action / : worktext in music,arts,physical education and health	2013	1
CIR GV 211 .F73 2012	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
			TOTAL	6



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**THIRD YEAR
FIRST SEMESTER**

Subject Code: **Est/EM 1**

Course Title: **GOVERNANCE**

Course Description: This examines the global, national and local governance that includes environmental organizations and institutions that addresses environmental challenges. It investigates theories and concepts that can be used to analyze the relative strengths and weaknesses of existing governance structures and to suggest alternative governance forms that might advance sustainability. It examines specific actors and the management of global environmental challenges,

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL JQ 1411 .B84p 2016	Buenaflor, Roberto C.	Politics, governance, and constitution of the Philippines : with the basics of criminal, civil and public officers laws	2016	1
CIR JF 1351 .R33g 2015	Raadschelders, Jos C.N.	Global dimensions of public administration and governance : a comparative voyage.	2015	1
CIR H 97 .H55i3 2014	Hill, Michael	Implementing public policy / : an introduction to the study of operational governance	2014	1
			TOTAL	6

Subject Code: **Bio 315**

Course Title: **DEVELOPMENTAL BIO**

Course Description: It deals on the basic principles of development from fertilization stages to miniature adult stages of selected representatives (e.g., human, frog, zebra fish...) dwelling into the molecular mechanisms that underlie development, with cases of stem cell technology applications.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL QL 605 .C33b 2016 c.1	Cabrido, Avelinda Ardez	Biology 1 : (for Senior High School)	2016	1
CIR QH 308.2 .N69b 2014	Noyd, Robert K.	Biology : organisms and adaptations	2014	1
CIR QH 308.2 .R87b3 2014	Russell, Peter J.	Biology : the dynamic science	2014	1
CIR QH 308.2 .N69b 2014	Noyd, Robert K.	Biology : organisms and adaptations	2014	1
FIL QL 951 M85	Muhi Estrellita T.	Dynamics of development : The philippine Experience		1
CIR QH 308.7 .L49I	Ricki Lewis.	Life		1
			TOTAL	6



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Subject Code: **PHYSICS**

Course Title: **Mechanics & Thermodynamics**

Course Description: An algebra-based physics designed to provide students fundamental knowledge and laboratory experience in Newtonian mechanics. Topics covered include kinematics in two dimensions, forces, Newton's laws and energy for linear motion. In addition to being introduced to the physical concepts, students will be trained both in the analytical and inventive approaches in problem solving which will be useful in all disciplines.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QC 21.3 .K37 2017	Katz, Debora M.	Physics for scientists and engineers foundations and connections with modern physics	2017	1
FIL QC 23 .S55e 2017	Silverio, Angelina A.	General physics	2017	1
CIR QC 26 .L57 2016	Lisa, Michael.	The physics of sports	2016	1
CIR QC 21.3 .S47p9 2014	Serway, Raymond A.	Physics for scientists and engineers	2014	1
FIL QC 212 A65 2010	Ang, Roel S	Physics	2010	1
			TOTAL	5

Subject Code: **Esci1**

Course Title: **Meteorology**

Course Description: It involves the meteorological concepts and principles and climatic elements. The methods and tools in monitoring and forecasting of weather and climate will be discussed.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QC 863 .N3 2005	Ruscher, Paul H.	Introductory meteorology : laboratory manual	2005	1
FIL QB 755 G35 2001.S47p9 2014	Galang, Efigenia C.A.	Meteorology : A first course	2014	1
CIR QC 861.2 .M67m2	Maran, Joseph M.	Meteorology : the atmosphere and the science of weather		1
			TOTAL	3

Subject Code: **Esci2**

Course Title: **Geology**

Course Description: Covers the fundamentals of geology: rocks, minerals, geologic time, plate tectonics, earthquakes, volcanoes, surface processes, and earth resources. It also deals the chemistry of minerals, how rocks form, and geologic mapping using Global Positioning System (GPS).

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QE 28.3 G67 2011	Gore, Pamela J.W	Historical geology online laboratory manual	2011	1



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CIR QE 38 .R45 2011	Reichard, James S.	Environmental geology	2011	1
CIR QE 26.2 .F66 1983	Foster, Robert J.	General Geology.	1983	1
RES 550 Si62i	Sinha, R. K.	An Introduction to Geology.		1
			TOTAL	4

**THIRD YEAR
SECOND SEMESTER**

Subject Code: **Chem325**

Course Title: **Biochemistry**

Course Description: Composition, properties and behavior of biochemical compounds in living systems such as humans, plants, animals, bacteria, protozoans, and alga. This course will also give students an idea of the system process they possess.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QP 514 .G64s 2018	Gogoi, Javin Bishnu.	Simplified practical manual of biochemistry	2018	1
CIR QD 415 .C36b8 2015	Campbell, Mary K.	Biochemistry	2015	1
CIR QD 31.3 .S42 2014	Seager, Spencer L.	Safety-scale laboratory experiments for Chemistry for today general, organic, and biochemistry	2014	1
CIR QP 514.2 .J36 2012	Lee W. Janson, Marc E. Tischler.	The big picture medical biochemistry	2013	2
CIR QD 415 .M3 2005	Nucum, Zenaida T.	Biochemistry for nursing students	2005	3
CIR QP 514.2 .K6613 2013	Koolman, Jan	Color atlas of biochemistry / Physiology	2005	4
			Total	12

Subject Code: **Bio 325**

Course Title: **Ecology**

Course Description: Intended to provide sets of discussions for learning the theory and application of ecological principles as well as provide practical use of ecological and general scientific methods. It consists of a wide variety of field studies, experiments, simulations, and other hands on activities that encompass the most important and most relevant aspects of the course.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL QH 541 .G85f 2015 c.1	Ryan Manuel D. Guido	Fundamentals of environmental science	2015	1
CIR QL 751 .G65r	Goldsmith, Xaviar.	Recent advances in animal ecology		1



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CIR QH 371 .D38i4	Davies, Nicholas B.	An Introduction to behavioural ecology		1
CIR QP 514.2 .J36 2012	Janson, Lee W.	The Big picture : medical biochemistry	2012	1
CIR QD 31.3 .S43c8 2014	Seager, Spencer L	Chemistry for today general, organic, and biochemistry	2014	1
CIR QD 415 N962 2010	Nucum, Zenaida T.	Simplified biochemistry	2010	2
			TOTAL	7

Subject Code: **ES/EM 3**

Course Title: **Biodiversity**

Course Description: Understanding the importance of biodiversity to humans. Discuss the salient role of people/communities towards the conservation of biodiversity. It also discusses the different conservation approaches. The Philippine Biodiversity Action Plan is also discussed for local appreciation of the current status of Philippine biodiversity.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR TC 513 .C66b 2018	Cooke, Millea	Biodiversity and irrigation	2018	1
	Costales, Lorielyn R.	Assessment of mangrove ecosystem in zambales (west philippine sea) and Aurora (pacific ocean)	2017	1
CIR GE 105 .W54e2 2007	Scott, Brennan	Environment : the science behind the stories	2007	1
				1
			TOTAL	3

Subject Code: **Esci 3**

Course Title: **Marine Science**

Course Description: Deals on the biological, chemical, geological and physical environment of the oceans. It also focuses on understanding the ocean environment and human impacts on coastal habitats.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR GE 105 .W54e2 2007	Scott, Brennan	Environment : the science behind the stories	2007	1
THE 530.7 G534i	Go, Crecenciana W.	Learning Performance of physics I marine engineering of the university of Cebu : Basis for remedial learning activities		1
			TOTAL	2

Subject Code: **Esci 4**

Course Title: **Geography**

Course Description: Geographical survey of the world's major regions with emphasis on those features important to an understanding of current global concerns and problems.

Call No.	Author	Title of Book	Copyright date	No. of copies
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CIR LC 71 .H36e 2017	Hammond, Linda Darling.	Empowered educators : how high- performing systems shape teaching quality around the world	2017	1
FIL G 73 G85	Occena-gutierrez, Darlene J	Teaching strategies in basic geography.		1
CIR G 128 D85	Cecilio D. Duka	World Geography		1
FIL GE 906 S35 2002	Salita, Domingo C.	Environmental geography	2002	1
			TOTAL	4

Subject Code: **ES/EM 2**

Course Title: **Law and Policy**

Course Description: Review and analysis of environmental laws and policies adopted and implemented in the international, national and local setting.

Call No.	Author	Title of Book	Copyright date	No. of copies
DIS HG 6024 .P35o 2018	Palispis, Armida Cajucom,	Operability of katarungang pambarangay as basis for system reformation	2018	1
CIR JF 1351 .R33g 2015	Raadschelders, Jos C.N.	Global dimensions of public administration and governance : a comparative voyage.	2015	1
FIL HJ 9580 .C83l 1996	Cuaresma, Jocelyn C.	Local fiscal administration in the Philippines	1996	1
			TOTAL	3

Subject Code: **ES/EM 3**

Course Title: **Advocacy and Communication**

Course Description: Provide the students the necessary skills and knowledge to convey science-based environmental messages to both the public and private sectors through the use of various communication methods and media

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL QE 1 .E37 2016		Earth and environmental science : workbook in natural science 3	2016	1
FIL QH 541 .G85f 2015 c.1	Ryan Manuel D. Guido	Fundamentals of environmental science	2015	1
CIR GE 105 .E54e11	Enger, Eldon D.	Environmental science : a study of interrelationships		1
CIR GE 105 .M35e	Mckinney, Michael L.	Environmental Science : systems and solutions		1
CIR GE 105 .C96p7 2013	Cunningham, William P.	Principles of environmental science : inquiry & applications		1
			TOTAL	5



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**FOURTH YEAR
FIRST SEMESTER**

Subject Code: **ES/EM 4**

Course Title: **Atmospheric Sciences**

Course Description: Provides the background about basic atmospheric phenomena in the context of the latest discoveries, and prepare themselves for more advanced study and real-life problem solving. It covers the following topics such as atmospheric chemistry, Earth system, atmospheric boundary layer, climate and climate change, as well as enhanced treatment of atmospheric dynamics, radiative transfer, severe storms, and global warming.

Call No.	Author	Title of Book	Copyright date	No. of copies
	Bautista, Chlea	Micro-climatic changes and its adverse environmental impact in cabanatuan city and science city of munoz, nueva ecija : comparative analysis		1
CIR GE 105 .W54e2 2007	Scott, Brennan	Environment : the science behind the stories	2007	1
CIR QC 861.2 .M67m2 1989	Maran, Joseph M.	Meteorology : the atmosphere and the science of weather	1989	1
			TOTAL	

Subject Code: **ES/EM 5**

Course Title: **Agriculture**

Course Description: Examines the relationship between agricultural production and the environment and the way in which this impact is influenced and should be influenced by agricultural policies. It tackles the introduction issues such as sustainability of soil quality, water quality and quantity, air quality, biodiversity conservation, landscapes and food and animal welfare.

Call No.	Author	Title of Book	Copyright date	No. of copies
THE 331.4 M252a 2016	Mallari Ma. Remedios M.	Assessment of the agriculture based income generating projects (IGP) of the Gabaladon campus of the Nueva Ecija University of science and Technology	2016	1
THE STA11 2016	Sta. Ana, Josel	Comparative analysis of formulated composted organic fertilizer : Basis on the proper implementation of RA 10068 and RA 9003	2016	1
CIR GE 105 .W54e2 2007	Scott, Brennan	Environment : the science behind the stories	2007	1



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FIL LB 1763 .L57 2014 c.1	.	LET comprehensive reviewer based on NCBTS and table of specifications (TOS) : specialization-Agriculture and Fishery Arts volume 5.	2014	1
CIR SB 950 .K86a1 2014	Kumar, Bhupendra	Agricultural pest management	2014	1
			TOTAL	5

Subject Code: **ES/EM 4**

Course Title: **Population and Demography**

Course Description: An emphasis on how the relationship between population dynamics and demographic equilibrium and/or instability affects (positively or negatively) the natural system.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR T 58.6 .B53	Hossein Bidgoli	Management information system		1
CIR QH 541 .K87e	Kupchella, Charles E	Environmental science : living within the system of nature		1
			TOTAL	2

Subject Code: **ES/EM 5**

Course Title: **Economics**

Course Description: Introduces analytical methods and tools to analyze environmental problems and identify policy solutions. Provides a microeconomic foundation of environmental economics, with a focus on market efficiency and market failures. Introduces environmental policy decision tools such as cost-benefit analysis and cost-effectiveness criterion. In particular, it focuses on benefits estimation including revealed preference approaches and stated preference approaches.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR HF 1017 .A53s13 2018	Anderson, David R.	Statistics for business and economics	2018	1
CIR HB 171.5 M13 2016	Eloisa M. Macalinao	Applied Economics	2016	1
CIR HC 59.7 B36P 2011	Abhijit V. Banerjee	Poor economics : a radical rethinking of the way to fight global poverty	2011	1
CIR HB 171.5 .F73p3 2007	Frank, Robert H.	Principles of economics	2007	1
CIR K 3820 .T78t 2006	Trubek, David M.	The new law and economics development : a critical appraisal	2006	1
CIR HF 1411 .S35i5 1995	Salvatore, Dominick.	International economics	1995	1
			TOTAL	6

Subject Code: **Res 1**

Course Title: **Thesis I**

Course Description: An introduction to the different aspects of research theory, methods and practice. Structured in two parts, the first covering the nature of knowledge and the reasons for research, and the



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second the specific methods used to carry out effective research. This also leads to the formulation of research proposals on their chosen area of specialization.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR H 62 .Q83 2016	David Silverman	Qualitative research	2016	1
CIR LB 1028 .D65 2016		Doing research in education : theory and practice	2016	1
CIR H 61 .C43m 2016	Chauhan, Arunsingh D	Methodology of social research	2016	1
CIR BF 76.5 .U93i5 2014	Flick, Uwe	An Introduction to qualitative research	2014	1
CIR LB 1028 .C56s 2012	Clough, Peter.	A Student's guide to methodology : justifying enquiry	2012	1
CIR H 61 .L67m 2013	Loseke, Donileen R.	Methodological thinking : basic principles of social research design	2013	1
CIR BF 76.5 .S73r3	Stangor, Charles	Research methods for the behavioral sciences		1
			TOTAL	7

**FOURTH YEAR
SECOND SEMESTER**

Subject Code: **ES/EM 6**

Course Title: **Environmental Monitoring**

Course Description: Understanding of pollutants and other environmental parameters/variables across different media (i.e. water, soil, air). The dynamics of sources and pathways are elucidated to apply scientific principles for examination and analysis. Sampling and analytical techniques are specified for each variable of interest. In addition, discussion of instruments and materials are also included in the identification and monitoring of variables along ecosystems.

Call No.	Author	Title of Book	Copyright date	No. of copies
	Bansale, Chiara Kaye	Mitigating climate change a carbon footprint program in cabanatuan city		1
			TOTAL	1

Subject Code: **ES/EM 7**

Course Title: **Geophysical sciences**

Course Description: It offers a study of the physical elements of the earth, with emphasis on the nature, distribution, and relationships of land forms, climate, soils, vegetation, and their integrated patterns of world distribution.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL QE 501 .D35e 1986	Danielson, Eric W.	Earth science : macmillan	1986	1



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RES 551 C468g	Chroston, P. N.	Geophysical abstracts : annual subject, author & regional index		1
			TOTAL	2

Subject Code: **ES/EM 8**

Course Title: **Aquatic Studies (Fresh water, Marine, Estuarine)**

Course Description: The analysis of different themes of aquatic case studies aims to acquaint students to aquatic issues or problems – understanding how human interact, affect, and influence the aquatic environment – including the analysis of cases that will be applied in decision-making at the individual, group, institution, regional, national, and global levels.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR SH 135 C74a 2015 c.1	Creed, Roger.	Aquaculture and the environment	2015	1
GS QH 545 .A78		Aquatic toxicology and risk assessment : thirteenth volume.		1
THE 577.6 M11d	Macayan, Roel	The determination of tolerance level of the different cleaning agents on selected aquatic organisms		1
			TOTAL	3

Subject Code: **ES/EM 8**

Course Title: **Impact Assessment**

Course Description: Concepts and methodology for environmental impact assessment of a project in relation to the biophysical and socioeconomic systems. This also elucidates the ecological, social and ethical bases of EIA. Risk assessment and management, mitigation of negative impacts and enhancement of positive impacts, including case studies of EIA projects are also included.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR TD 194.64 .L64e	Lohani, Bindu N.	Environmental impact assessment : for developing countries in asia		1
THE 304.2 D331i 2017	De Leon, Promia G.	Integration of environmental issues in Grade 8 subjects	2017	1
THE MLCM 2009/41417 (D) Ban22	Bansale, Chinee Paulyn	Initial environment examination prior to environmental impact of the proposed material recovery facilities for non-biodegradable waste : an analysis	2015	1
THE UB1 2016	Ubaldo, Grazielle	Assessment of water quality in livestock farming among three (3) sites (Pangatian, Cabu and Macatbong)	2016	1
			TOTAL	4

Subject Code: **Res 2**

Course Title: **Thesis 2**

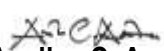
Course Description: A continuation of Res 1 (Thesis 1) where students will conduct their respective research proposal that is already approved by the advisory committee. The course consist of a complete package of their research study either quantitative or qualitative in nature that mainly focus on environmental science and its allied discipline.



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Call No.	Author	Title of Book	Copyright date	No. of copies
CIR H 62 .Q83 2016	David Silverman	Qualitative research	2016	1
CIR LB 1028 .D65 2016		Doing research in education : theory and practice	2016	1
CIR H 61 .C43m 2016	Chauhan, Arunsingh D	Methodology of social research	2016	1
CIR BF 76.5 .U93i5 2014	Flick, Uwe	An Introduction to qualitative research	2014	1
CIR LB 1028 .C56s 2012	Clough, Peter.	A Student's guide to methodology : justifying enquiry	2012	1
CIR H 61 .L67m 2013	Loseke, Donileen R.	Methodological thinking : basic principles of social research design	2013	1
CIR BF 76.5 .S73r3	Stangor, Charles	Research methods for the behavioral sciences		1
			TOTAL	7

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