



UNIVERSITY LIBRARIES

BACHELOR OF SCIENCE IN CHEMISTRY CURRICULUM

CHED MEMORANDUM ORDER NO. 47 SERIES OF 2017

APPROVED CURRICULUM A.Y. 2018 - 2019

**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	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. Arrogante.	Siningngkomunikasyonsaakademiko ng Filipino	2013	1
			TOTAL	4

Subject Code: **GE 2**

Course Title: **READINGS IN PHILIPPINE HISTORY**

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 673.8 .G37p 2015 c.2	Garcia, Carlito D.	Philippine history and government for college students	2015	1
FIL DS 668 .G37f 2015 c.2	Garcia, Carlito D	A Textbook in Philippine history for college students	2015	3
FIL DS 655 P55 2015		Philippine electoral almanac.	2015	1
			Total	5

**UNIVERSITY LIBRARIES**Subject Code: **CHEM 115**Course Title: **PRINCIPLES OF CHEMISTRY**

Course Description: The course emphasizes fundamental chemical concepts and inorganic structures. Topics to be discussed include: atomic and molecular structure; the periodic table and periodicity; chemical bonding; thermochemistry; kinetics and reaction rates, chemical equilibrium, acid-base and solubility equilibria; and basic thermodynamics. Electrochemistry, nuclear chemistry and the descriptive chemistry of the representative elements may be introduced as optional enrichment topics to advanced students. Laboratory experiments are designed to complement the lectures.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QD 33 .S86	Stoker, H. Stephen	Introduction to chemical principles		1
CIR QD 31.3 .O88	Oxtoby, David W	Principles of modern chemistry		1
CIR QD 31.3 .E23g10 2013	Darrell D. Ebbing, Steven D. Gammon.	General chemistry	2013	1
CIR QD 33.2 .M33 2004	Masterton, William L.	Chemistry : principles and reactions	2004	3
CIR QD 31.2 .P48g7 1993	Petrucci, Ralph H.	General chemistry : principles and modern applications	1993	2
			TOTAL	8

Subject Code: **MATH 113**Course Title: **MATH ANALYSIS 1**

Course Description: The primary goal of this course is to enhance statistical literacy. This includes mathematical formulas and arithmetic computation, logical reasoning and problem solving abilities and terminology and vocabulary acquisition. This course uses a non-theoretical approach in which concepts are explained intuitively and supported by examples.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL QA 39.3 .L67o2 2018	Lopez, Brian Roy.	Our world of math	2018	1
THE HF 5691 .D45d 2017	Del Rosario, Jennalyn C.	Development of real life performance based tasks in business mathematics	2017	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
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
			TOTAL	10



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Subject Code: **ELP**

Course Title: **ENGLISH FOR CHEMIST**

Course Description: This is an English course designed for chemists. It covers English proficiency using technical terms usually encountered in the study of science.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR HF 5718 .G87e 2017	Gupta, Sanjay.	Communication skills	2017	1
FIL PE 1130.3 .L39d c.1	Lazo, Jennifer T.	Developing english communication skills for college learners : (a work text for college english)		1
CIR 658.45 H223c 2004	Hargie, Owen	Communication skill effective management	2015	1
FIL P 91.3 A85 2003	Atienza, Leticia P.	Basic communication and thinking skills : for college freshmen	2004	1
FIL PE 1130 .B37 2000	Baracerros, Esther L.	Communication skills I : study and thinking skills	2000	1
			TOTAL	5

Subject Code: **PE 1**

Course Title: **PHYSICAL EDUCATION**

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR RA 776 .T539 2019	Thygerson, Alton L	Fit to be well essential concepts.	2019	1
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
			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 makrokasanayang pagbasa



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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	TumanganAlcomti ser P.	Pagbasa at pagsulatsaiba'tibangdisiplina : Filipino 2	2009	2
			TOTAL	3

Subject Code: **GE 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 4nglish communication skills for college learners : (a work text for college 4nglish)	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

Subject Code: **PHYS 124**

Course Title: **PHYSICS I**

Course Description:

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
CIR QC 21 .T93b 2016	Tyagi, Piyooosh Kumar	Basic elements of physics	2016	1
FIL QC 37 .A54c 2015	Ang, Roel S	College physics laboratory manual in mechanics	2015	1
CIR QC 21.3 .S47p9 2014	Serway, Raymond A.	Physics for scientists and engineers	2014	1

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			TOTAL	4
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Subject Code: **MATH 223**Course Title: **MATH ANALYSIS 2**

Course Description: Provides a theoretical foundation for the concepts of elementary calculus.

Topics include differentiation and Riemann-Stieltjes Integration, sequences and series of functions, uniform convergence, power series, functions of several variables, Implicit Function Theorem.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL QA 39.3 .L67o2 2018	Lopez, Brian Roy.	Our world of math	2018	1
THE HF 5691 .D45d 2017	Del Rosario, Jennalyn C.	Development of real life performance based tasks in business mathematics	2017	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
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
			TOTAL	10

Subject Code: **CHEM 223**Course Title: **INORGANIC CHEMISTRY I**

Course Description: The course is intended for the study of the principles and trends in the chemistry of the elements and the essentials of structure, bonding and reactivity of inorganic systems.

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: **PE 2**

Course Title:

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR RA 776 .T539 2019	Thygerson, Alton L	Fit to be well essential concepts.	2019	1
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
			TOTAL	6

**SECOND YEAR
FIRST SEMESTER**

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
			TOTAL	3

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 makapagdalamat o “makapagteorya”



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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 baytng II sa programang K-12	2016	1
FIL PL 5517 B47m 2002	Rolando A. Bernaldes ...[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

Subject Code: **PHYS 214**

Course Title: **PHYSICS 2**

Course Description:

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
CIR QC 21 .T93b 2016	Tyagi, Piyoosh Kumar	Basic elements of physics	2016	1
FIL QC 37 .A54c 2015	Ang, Roel S	College physics laboratory manual in mechanics	2015	1
CIR QC 21.3 .S47p9 2014	Serway, Raymond A.	Physics for scientists and engineers	2014	1
CIR QC 33 G13 2013	Galang, Alma Gutay	Simplified physics : fluids, waves, light and optics	2013	1
CIR QC 23.2 .B38 2011	Bauer, Wolfgang	University physics	2011	2
FIL QC 212 A65 2010	Ang, Roel S	Physics	2010	2
			TOTAL	9

Subject Code: **CHEM 315**

Course Title: **ANALYTICAL CHEMISTRY I**

Course Description: The course is designed to give students an understanding of the principles and practice of gravimetric and volumetric methods, potentiometry and spectrophotometry, analytical measurements and data analysis.

Call No.	Author	Title of Book	Copyright date	No. of copies
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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
			TOTAL	3

Subject Code: **CHEM 415**Course Title: **ORGANIC CHEMISTRY I**

Course Description: The course covers organic structure, stereochemistry, nomenclature and reactions of hydrocarbons.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QD 253 V47 2017	Dr. Vijay Verma	Organic Chemistry	2017	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 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
			TOTAL	5

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

**UNIVERSITY LIBRARIES****SECOND YEAR
SECOND SEMESTER**Subject Code: **GE 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
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 School)	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: **CHEM 525**Course Title: **ORGANIC CHEMISTRY 2**

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Course Description: The course covers organic structure, stereochemistry, nomenclature and reactions of alcohols, ethers, aldehydes, ketones and carboxylic acid derivatives.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QD 253 V47 2017	Dr. Vijay Verma	Organic Chemistry	2017	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 QD 251.3 .M365 2013	McMurry, John E.	Organic chemistry : a biological approach	2013	1
CIR QD 251.2 .M4 2003	McMurry, John	Fundamentals of Organic Chemistry.	2003	2
CIR QD 251.2 .B764 2008	William H. Brown with Christopher S. Foote	Organic chemistry.	2009	1
CIR QD 31.3 .S43c8 2014	Seager, Spencer L.	Chemistry for today general, organic, and biochemistry	2014	1
			TOTAL	7

Subject Code: **CHEM 624**

Course Title: **PHYSICAL CHEMISTRY I**

Course Description: This course provides the foundations in chemical thermodynamics, physical and chemical equilibria, and an introduction to statistical thermodynamics.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL Q 163 .N83p 2016 c.1	Nucum, Zenaida T.	The Physical science : (for Senior High School	2016	1
CIR 541.3 M367f	Maron, Samuel H	Fundamentals of physical chemistry		1
CIR TA 710 .P49 1990		Physico-chemical aspects of soil and related materials	1990	1
CIR QE 40 P48 1988	Peter, Alexander.	Silver Burdett & Ginn Physical Science	1988	1
CIR 541.3 A114p 1987	Alberty, Robert A	Physical chemistry	1987	1
			TOTAL	5

Subject Code: **CHEM 725**

Course Title: **ANALYTICAL CHEMISTRY 2**

Course Description: This course is designed to develop knowledge and skills for analytical separations and introduction to instrumental methods of analysis.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QD 75.2 .S56f9 2014	Skoog, Douglas A.	Fundamentals of analytical chemistry	2016	1
CIR QD 101.2 .H37q7 2007	Harris, Daniel C.	Quantitative chemical analysis	2007	1
CIR QD 75.2 .S55 2004	Skoog, Douglas A	Fundamentals of Analytical Chemistry	1990	1

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CIR QC 33 G13 2013	Skoog, Douglas A	Analytical Chemistry : Fundamentals	1988	1
			TOTAL	4

THIRD YEAR FIRST SEMESTER

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
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: **CHEM 915**Course Title: **PHYSICAL CHEMISTRY 2**

Course Description: This course is a continuation of Physical Chemistry 1. This course will discuss the following topics: thermodynamic properties of chemical systems with emphasis on nonideal systems; electrochemistry; transport properties; chemical kinetics; surface chemistry, macromolecules and colloids; photochemistry; solid state and other applications.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL Q 163 .N83p 2016 c.1	Nucum, Zenaida T.	The Physical science : (for Senior High School	2016	1
CIR 541.3 M367f	Maron, Samuel H	Fundamentals of physical chemistry		1
CIR TA 710 .P49 1990		Physico-chemical aspects of soil and related materials	1990	1

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CIR QE 40 P48 1988	Peter, Alexander.	Silver Burdett & Ginn Physical Science	1988	1
CIR 541.3 A114p 1987	Alberty, Robert A	Physical chemistry	1987	1
			TOTAL	5

Subject Code: **CHEM 915**Course Title: **BIOCHEMISTRY 1**

Course Description: This course covers the structural chemistry of the components of living matter and how this relates to biological function. It also covers the structure-function kinetics and regulation of biological catalysts.

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: **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



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CIR T 262 S416 1993	Charles McFadden, Robert E.	Science plus : technology and society	1993	2
			TOTAL	11

Subject Code: **CHEM 1013**

Course Title: **CHEMICAL INSTRUMENTATION**

Course Description: This course covers the principles, operation and maintenance of instruments commonly used by chemists and chemical technicians in the industry.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QD 33 .S86	Stoker, H. Stephen	Introduction to chemical principles		1
CIR QD 33.2 .M33	Masterton, William L	Chemistry : principles and reactions		1
			TOTAL	2

Subject Code: **CHEM 1112**

Course Title: **EXPERIMENTAL DESIGN**

Course Description: This course consists of series of lectures and computer simulations regarding the concepts and principles of Experimental Design.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR TP 248.24 .R38b 2016	Rathoure, Ashok K.	Basic experiments in biotechnology	2016	1
	Buendia, Homer Tan	Confirmatory analysis on biodegradable plastics present in cabanatuan city public market	2015	1
CIR BF 76.5 .B37s 1984	Barlow, David H.	Single case experimental designs : strategies for studying behavior change		2
			TOTAL	3

**THIRD YEAR
SECOND SEMESTER**

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



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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: **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 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
			TOTAL	8

Subject Code: **CHEM 1223**

Course Title: **BIOCHEMISTRY 2**

Course Description: This course covers the basic chemistry processes involved in the flow of biological information, the principles of metabolism and the chemistry of the primary metabolic pathways.

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

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CIR QP 514.2 .K6613 2013	Koolman, Jan	Color atlas of biochemistry / Physiology	2005	4
			Total	12

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 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

Subject Code: **CHEM 1324**Course Title: **ANALYTICAL CHEMISTRY 3: TECHNICAL ANALYSIS**

Course Description: This course applies the principles and theories of gravimetric and volumetric methods of analysis of chemical samples, with an emphasis on laboratory techniques and accuracy of measurements. This serves as the students' review course on analytical chemistry in preparation to their OJT course.

Call No.	Author	Title of Book	Copyright date	No. of copies
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
CIR QD 33.2 .S76g4 2007	Stoker, H. Stephen.	General, organic and biological chemistry	2007	1
CIR QH 345 N63 2005	Nucum, Zenaida T	Laboratory manual for biochemistry	2005	1
CIR QD 31.2 .H43 1988	Hein, Morris	Introduction to general, organic, and biochemistry	2005	1
			TOTAL	7

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FIRST SEMESTER**Subject Code: **CHEM 1413**Course Title: **INORGANIC CHEMISTRY 2**

Course Description: The course is the continuation of inorganic chemistry I, it is intended for the study of the principles and trends in the inorganic compounds in relation to the essentials of structure, bonding and reactivity.

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
CIR QD 151.5 .S57 2010	Peter Atkins ... [et al.]	Shriver & Atkins' inorganic chemistry	2010	1
			TOTAL	5

Subject Code: **CHEM 1513**Course Title: **PHYSICAL CHEMISTRY 3**

Course Description: This course presents a rigorous introduction to the basic principles of quantum mechanics and its applications. It focuses on a conceptual understanding.

Call No.	Author	Title of Book	Copyright date	No. of copies
FIL Q 163 .N83p 2016 c.1	Nucum, Zenaida T.	The Physical science : (for Senior High School	2016	1
CIR 541.3 M367f	Maron, Samuel H	Fundamentals of physical chemistry		1
CIR TA 710 .P49 1990		Physico-chemical aspects of soil and related materials	1990	1
CIR QE 40 P48 1988	Peter, Alexander.	Silver Burdett & Ginn Physical Science	1988	1
CIR 541.3 A114p 1987	Alberty, Robert A	Physical chemistry	1987	1
			TOTAL	4

Subject Code: **RES 2**Course Title: **THESIS 2**

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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 chemistry and its allied discipline.

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

Subject Code: **CHEM 1613**

Course Title: **ORGANIC CHEMISTRY 3**

Course Description: The course is a continuation of Organic Chemistry II with focus on reaction intermediates such as carbanions and carbocations. It is the application of the principles obtained during Organic chemistry I and II to design reaction route and mechanisms involving heterocyclic and pericyclic through retrosynthesis.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QD 253 V47 2017	Dr. Vijay Verma	Organic Chemistry	2017	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 QD 251.3 .M365 2013	McMurry, John E.	Organic chemistry : a biological approach	2013	1
CIR QD 251.2 .M4 2003	McMurry, John	Fundamentals of Organic Chemistry.	2003	2
CIR QD 251.2 .B764 2008	William H. Brown with Christopher S. Foote	Organic chemistry.	2009	1
CIR QD 31.3 .S43c8 2014	Seager, Spencer L.	Chemistry for today general, organic, and biochemistry	2014	1
CIR 547 B834o2 1998	Bruice, Paula Yukanis	Organic Chemistry	1998	1
CIR QD 261 E96 1994	Browne, L. M.	Experiment in organic chemistry.	1994	1
			TOTAL	9

Subject Code: **SEM**

Course Title: **SPECIAL TOPICS IN CHEMISTRY**

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Course Description: This course consists of series of lectures on the application of chemistry in the different sectors of the society. Procedural steps on proper preparation, planning and implementation of seminars for a particular chemistry topic is included in the course. Primarily, the course aims to update students on the current advances on chemistry in industries.

Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QA 278 .K55p4 2016	Kline, Rex B.	Principles and practice of structural equation modeling	2016	1
CIR QD 462 .R66m 2016	Roos, B. O. (Björn O.)	Multiconfigurational quantum chemistry	2016	1
CIR QD 31.3 .E23g10 2013	Darrell D. Ebbing, Steven D. Gammon.	General chemistry	2013	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 QD 31.2 w28 2004	Whitten, Kenneth	General Chemistry	2004	4
CIR QD 45 F469 2002	Figueroa, Lolibeth V	General chemistry : Laboratory manual	2002	2
CIR QD 31.2 .P48g7 1993	Petrucci, Ralph H. I	General chemistry : principles and modern application	1993	3
CIR QD 31.2 .W53 1996	Whitten, Kenneth W.	General chemistry : with Qualitative Analysis.	1992	2
			TOTAL	14

FOURTH YEAR SECOND SEMESTER
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Subject Code: **RES 3**Course Title: **THESIS 3**

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

Subject Code: **CORRELATION CHEMISTRY**


Course Title:



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Call No.	Author	Title of Book	Copyright date	No. of copies
CIR QD 462 .R66m 2016	Roos, B. O. (Björn O.)	Multiconfigurational quantum chemistry	2016	1
CIR RB 40 .C576 2000	Bishop, Michael L.	Clinical Chemistry : principles, procedures, correlations	2000	5
			TOTAL	6

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