





DEPARTMENT OF PURE & APPLIED CHEMISTRY

Visca, Baybay City, Leyte, PHILIPPINES Telefax: +63 563 7747 Email: dopac@vsu.edu.ph Website: www.vsu.edu.ph

TABLE OF SPECIFICATIONS

Chem 140 – Quantitative Inorganic Analysis

1st Semester AY 2021 -2022

Examination: __Midterm XX Final

Date of Examination: December 15, 2021

				Taxonomy of Objectives						
	No. of Meeting S	Meeting Learning Outcome	%	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	Total Items
		(00/20)		_% _%	_%	_% _%	_%	_%		
lonic strength of solutions	2	CO 4 / LO 6.1-6.2	14.9	4.5	4.5	3.0	3.0			10
Gravimetr ic method of analysis	2	CO 2 / LO 7.1-7.2	19.4	13.9	6.4		,	1.0		14
Volumetri c method of analysis	2	CO 4 / LO 7.1-7.2	19.4	10.0	7.0			0.5		12
Optical method of analysis	2	CO 3 / LO 8.1-8.2	46.3	23.8	20.9				1.5	31
Total	8		100%	52.2	38.8	3.0	3.0	1.5	1.5	67
Item Arrange ment	2			II: 1-9 III: 1-26	II:10- 21 III: 27-40	I:1-2, II:4	I:3-4 II:1,5	I: 5 II:2,7	I: 6 II:3,6	

Type/s of Test: (example: Multiple Choice, Alternative Response, Essay, Fill in the blanks, etc)

Test I

Problem Solving (PS)

Test II

Multiple Choice (MC)

Test III

True or False (T/F)

	Name of Course Instructor /Professor	Signature	Date Signed
Prepared by:	FELIX M. SALAS	En	22 Nov. 2021
-,			

Department Instructional Materials Review Committee:

Committee	Name	Signature	Date Signed
Member:	JACOB GLENN F. JANSALIN	- par	1/24/21
Member:	MERVIN JUNE B. GASATAN		11/25/21
Chairperson	MARIA ROBELYN A. INSIK	manuf	12/6/21
Department Head:	ELIZABETH S. QUEVEDO	annews	11/29/21

	Name	Signature	Date Signed
Verified by:	MA. THERESA P. LORETO Dean, CAS	ntplats	12/7/2021
Validated by:	NANCY D. ABUNDA Head, IMD		

Note: A copy of the test paper with answer key shall be attached to the TOS.

Distribution of copies: OIMD, College, Department, Faculty, and Office of the Director for Quality Assurance







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TABLE OF SPECIFICATIONS

Chem 124 – Molecular Spectroscopy

1st Semester AY 2021 -2022

Examination: __Midterm XX Final

Date of Examination: December 15, 2021

					Taxo	nomy	of Object	tives		
Content	No. Outcome of Lear Meet Outcome	Course Outcome/ Learning Outcome (CO/LO)	%	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	Total Items
				_%	_%	_%	_%	_%	_%	
Proton-NMR Spectros- copy	2	CO 3 / LO 5.1-5.2	25.0	7.5	7.5	3.0	3.0	1.0	3.0	20
Carbon-NMR Spectros- copy	2	CO 3 / LO 6.1-6.2	18.8	7.4	6.4	2.0	2.0	1.0		15
Mass Spectro- metry	2	CO 4 / LO 7.1-7.2	25.0	10.0	7.0	2.5	3.0	0.5	2.0	20
Combined Spectros copy	2	CO 4/ LO 8.1-8.2	31.2	10.0	5.1	6.0	6.0	2.0	2.1	25
Total	8		100%	34.9	26.0	13.5	14.0	4.5	7.1	80
Item Arrangement				I:1-20 III:1-14	I:21-30 III:15-26	II:1-2, IV:2	II:3-4 III:27-32 IV:1,4	II: 5 III:33-40	II: 6 IV:3	

Type/s of Test: (example: Multiple Choice, Alternative Response, Essay, Fill in the blanks, etc)

Test I

True or False (T/F)

Test II

Problem Solving (PS)

Test III

Multiple Choice (MC)

Test IV

Essay

Drangrad	Name of Course Instructor /Professor	Signature	Date Signed
Prepared by:		A.	
~ .	FELIX M. SALAS	W	22 Nov. 2021

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Member:	MERVIN JUNE B. GASATAN	1	11/25/21
Chairperson	MARIA ROBELYN A. INSIK	polylo	12/6/21
Department Head:	ELIZABETH S. QUEVEDO	amere	1/29/21

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TABLE OF SPECIFICATIONS

Chem 115 – Principles of Chemistry 1st Semester AY 2021 -2022

Examination: __Midterm XX Final

Date of Examination: December 16, 2021

			Taxonomy of Objectives							
Content	No. of Meetin gs	Course Outcome/ Learning Outcome	%	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating	Total Items
		(CO/LO)		%	_%	_%	_%	%	_%	
Chemical Bonds & Bonding Theories	2	CO 4 / LO 5.1-5.2	19.0	4.5	4.5	3.0	3.0		4.0	15
States of Matter & Gas Laws	2	CO 2 / LO 6.1-6.2	25.3	13.9	6.4	2.0	2.0	1.0		20
Solutions, Reactions & Chemical Equilibria	2	CO 4 / LO 7.1-7.2	25.3	10.0	7.0	2.8	3.0	0.5	2.0	20
Chemical Kinetics	2	CO 3 / LO 8.1-8.2	30.4	23.8	2.1	1.0	1.0	1.0	1.5	24
Total	8		100%	52.2	20.0	8.8	9.0	2.5	7.5	79
Item Arrangem ent				I:1-20 III:1-14	I:21-30 III:15-26	II:1-2, IV:2	II:3-4 III:27-32 IV:1	II: 5 III:33-40	II: 6 IV:3	

Typels of Test: (example: Multiple Choice, Alternative Response, Essay, Fill in the blanks, etc)

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Problem Solving (PS)

Test III

Multiple Choice (MC)

Test IV

Essay

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