

LEYTE STATE UNIVERSITY

6521-A Visca, Baybay, Leyte, Philippines

Office of the Secretary of the University and of the Board of Regents

3rd LSU Board of Regents Meeting 08 February 2002 * LNU, Tacloban City

Proposal to Offer Bachelor of Science in Chemistry

Board Resolution No. 16, s. 2002

Approving the proposal to Offer B.S. Chemistry as proposed.

BOARD ACTION: APPROVED

Date: 08 February 2002

received:

ATTACHMENT: \$

Certified True and Correct:

DANIEL M. TUDTUD JR.

Board Secretary

Cc: Prof. JG Jansalin

Office of the Board Secretary

LEYTE STATE UNIVERSITY Visca, Baybay, Leyte 6521 A Philippines

08 February 2002

The Honorable Chairman and Members of the LSU Board of Regents

Ladies/Gentlemen:

I am hereby endorsing the "Proposal to Offer Bachelor of Science in Chemistry" which was prepared by the Department of Pure and Applied Chemistry (formerly the Department of Ag. Chemistry and Food Science), College of Arts and Sciences. This proposal was presented to and approved by the University Academic Council during its 29 January 2002 meeting. The University Academic Council has endorsed the proposal for approval by the Board of Regents.

I am, therefore, recommending the same **FOR APPROVAL** by the Board of Regents.

Very truly yours,

PACIENCIA P. MILAN

President

BOARD ACTION:

DATE

08 February 2002

PROPOSAL TO OFFER THE BACHELOR OF SCIENCE IN CHEMISTRY

I. RATIONALE

1 2

The recent conversion of the Visayas State College of Agriculture into the Leyte State University necessitates redefinition of the institution's thrusts. This should take into consideration the need to bolster the development of human resources in the field of basic sciences to backstop technological innovations. Moreover, government-sponsored scholarships and financing institutions give priority attention to the development of basic science education and technology programs.

Along this line, the renamed Department of Pure and Applied Chemistry strongly recommends to offer BS Chemistry (BS Chem) in addition to the existing BS Agricultural Chemistry (BSAC) curriculum. Being a top priority course in the DOST's Science and Technology program, LSU's offering of BS Chem would attract donors and other funding agencies for the development of manpower and physical facilities. Moreover, this can help increase the number of LSU enrollees since students from Region VIII who intend to take up BS Chem can take the course here at LSU. Indigent but mentally- endowed students would then have greater chances of getting scholarship grants.

Both curricula have the same chemistry core courses: Inorganic, Organic, Physical and Analytical Chemistry. These conform to the requirements of the Professional Regulation Commission (PRC), the Commission on Higher Education (CHED) Technical Panel for Chemistry's 1997 Policies and Standards for BS Chemistry, the CHED Memorandum Number 4 series 1997, and the provision of Republic Act (RA) Number 7722, otherwise known as the Education Act of 1994.

The graduates of the proposed BS Chemistry curriculum will have additional theoretical chemistry subjects, which will better prepare them for advanced studies in pure chemistry. They are likewise equipped and kept abreast with technological innovations in chemistry to meet the challenges of the fast changing technological world. The BS Chem curriculum has a total of 158 units while the BSAC curriculum has 168 units since agricultural sciences are included in the latter. This will allow the students to do more independent research.

1	Although the word "agricultural" oftentimes present a stigma, the BSAC
2	curriculum equipped the graduates with technical know-how on the analysis of
3	agricultural products hence in terms of employment opportunities they are preferred in
4	agriculture-related industries. Most manufacturing companies, however, prefer licensed
5	BS Chem graduates to work in line with production, quality control and product research.
6	Based on the survey conducted among the top 20 graduating high school
7	students from seven (7) different schools of Baybay and Ormoc, 61 out of 134 (46%)
8	respondents are interested to take up BS Chem at LSU. (See Appendix Table)
9	
10	II. GRADUATE PROFILE
11	A. Cognitive
12 13	1. Explain chemical concepts, principles, applications and their limitations.
14	2. Analyze and assess chemical based technologies and their impact on the
15	environment.
16	3. Gain fundamental knowledge on chemical instrumentation, theories and
17	applications of some analytical methods.
18 19	B. Psychomotor
20	1. Apply basic knowledge in chemistry in trying to solve common and chemistry
21	related problems.
22	2. Conduct scientific experiments/research studies effectively.
23	3. Assist in the enforcement of safe and efficient disposal systems of chemical
24	wastes to safeguard the health of the populace.
25	C. Affective
26	1. Show genuine awareness and concern of the impact of chemistry and technology
27	on society and the environment.
28	2. Develop interest and appreciation in chemistry as a science that provide answers
29	to questions of day-to-day living.
30	3. Appreciate the important role chemistry plays in society and the interrelationship
31	it shares with other scientific disciplines.
32	

1	III. EMPLOYMENT OPPORTUNITIES
2 3	Laboratory and quality control analyst in
4 5	Industries (e.g. sugar, flour, cement, alcohol, textile, etc.)
6	Research Institutions (e.g. IRRI, IPB, PhilRice, PhilRootcrops, etc.)
7	Government Agencies (e.g. DA, BAR, LGU, Crime Laboratories, etc.)
8	Pharmaceutical Companies (e.g. Unilab, IPI, Interphil, Metro Drug, etc.)
9	Chemistry teacher/ researcher
0	Sales representative/agent of chemical or industrial companies
1	Entrepreneur.

3	Z L L L L L L L L L L L L L L L L L L L	rison based on semestral offer	ing							
5		PRESENT BSAC					PROPOSED BS CHEM			
6		First Semester		FIF	RST YE	AR	First Comments			
9	Course No.		Lon	Lab	Units	Course No.	First Semester		1	11-7
	Bio 11	General Biology	Lec 3	3	4	Bio 11		Lec		Units
	Chem 11	General Chemistry I	3	3	4	Chem 11	General Biology	3	3	4
	Engl 11	Communication Skills I	3	0	3	Engl 11	General Chemistry I Communication Skills	3	3	4
	Math 11	College Algebra	3	0	3	Math 11	College Algebra	3	0	3
	Psych 11	General Psychology	3	0	3	Psych 11		3	0	3
	SocSci 13	Socio Economic Systems	3	0	3	SocSci 13	General Psychology Socio Economic Systems	3	0	3
	PhyEd 11	Physical Fitness & Gymnastics			(2)	PhyEd 11	Physical Fitness & Gymnastics	3	U	(2)
	Euth11/	Personality Devt.& Adjustment				Euth11/	Personality Devt.& Adjustment			4)
18	MS 11	First Year Basic Course			(1/1.5)		First Year Basic Course			(<u>1/1.5</u>)
19					20		That real Basis Board			20
20										
21		Second Semester					Second Semester			
22	Course No.	Descriptive Title	Lec	Lab	Units	Course No.		Lec	Lab	Units
23	Bot 21	General Botany	2	3	3	Stat 21	Elementary Statistics	2	3	3
24	Chem 21	General Chemistry II	2	3	3	Chem 21	General Chemistry II	2	3	3
25	Engl 12	Communication Skills II	3	0	3	Engl 12	Communication Skills II	3	0	3
26	Math 12	Plane Trigonometry	3	0	3	Math 12	Plane Trigonometry	3	0	3
27	SocSci 14	Phil Soc Prob Land Ref & Taxn	3	0	3	SocSci 14	Phil Soc Prob Land Ref & Taxn	3	0	3
28	Socio 11	General Sociology	3	0	3	Socio 11	General Sociology	3	0	3
29	Zoo 21	General Zoology	3	0	3	Hum 11	Introduction to Humanities	3	0	3
30	PhyEd 12	Recreational Games &				PhyEd 12	Recreational Games &			
31		Rhythmic Activity			(2)		Rhythmic Activity			(2)
32	Euth 12/	Human Relationship				Euth 12/	Human Relationship			
33	MS 12	First Year Basic Course			(1/1.5)	ROTC 12	First Year Basic Course		((1/1.5)
34					21					21
35										
36				S	UMME	R				
37		None					None	<i></i>		
38										
39				SEC	OND Y	EAR				
40										
41		First Semester					First Semester			
42	Course No.	Descriptive Title	Lec	Lab	Units	Course No.	Descriptive Title	Lec	Lab	Units
	Chem 111	Thermo & Chem'l Equil	2	3	3	Chem 111	Thermo & Chem'l Equil	2	3	3
	Chem 125	Organic Chemistry I	3	6	5	Chem 125	Organic Chemistry I	3	6	5
	Engl 21	Introduction to Literature	3	0	3	Engl 21	Introduction to Literature	3	0	3
	Math 112	Analytic Geometry & Calc I	5	0	5	Math 112	Analytic Geometry & Calc I	5	0	5
	Phys 11	General Physics	3	3	4	Phys 11	General Physics	3	3	4
	PhyEd 13	Team Sports			(2)	PhyEd 13	Team Sports			(2)
	Euth 13/	Moral & Spiritual Values				Euth 13/	Moral & Spiritual Values			
51	MS 21	Second Year Basic Course			(1/1.5)	ROTC 21	Second Year Basic Course		(1/1.5)
52					20					20
53		Coond Comester								
54	Course No.	Second Semester					Second Semester			
		Descriptive Title	Lec	Lab	Units	Course No.	Descriptive Title	Lec	Lab	Units
	Chem 126 Wath 113	Organic Chemistry II	3	6	5	Chem 126	Organic Chemistry II	3	6	5
	Phys 21	Analytic Geometry & Calc II	5	0	5	Math 113	Analytic Geometry & Calc II	5	0	5
	SS 22	College Physics	2	3	3	Phys 21	College Physics	2	3	3
	SocSci 15	Fund of Soil Science	2	3	3	CS 21	Introduction to Computers	2	3	3
	PhyEd 14	Phil History & Constitution	3	0	3	SocSci 15	Phil History & Constitution	3	0	3
	Euth 14/	Individual-Dual Sports Career Development			(2)	PhyEd 14	Individual-Dual Sports			(2)
	AS 22	Second Year Basic Course			lau =	Euth 14/	Career Development			
63		COUNTY TEST DASIG COURSE			(<u>1/1.5</u>) 19	ROTC22	Second Year Basic Course		(<u>1/1.5</u>) 19

1 IV. COMPARISON OF THE BSAC & PROPOSED BS CHEM CURRICULUM

1			s	UMME	R				
2									
3									
4 Course No.		Lec		Units		None			
5 Chem 31	Biochemistry	3	0	3					
6 Chem 31a	Biochemistry Laboratory	0	6	2					
7 8				5					
9			TUI	RD YE	EAD				
10			1111	וו טא	-AIN				
11	First Compater					F-10			
12 Course No.	First Semester		16	11-4-		First Semester			
13 Chem 145		Lec	Lab	Units	Course No.		Lec		Units
14 CS 21	Analytical Chemistry Introduction to Computers	3	6	5	Chem 145	Analytical Chemistry I	3	6	5
15 Philo 12	Contemporary Philo Thoughts	2	3	3	CS 134	Prin. Comp Programming	2	3	3
16 PP 21	Prin of Plant Protection	2	3	3	Philo 12 Fil 25	Contemporary Philo Thoughts	3	0	3
17 Spch 11	Speech Communication	3	0	3		Sining ng Pakikipagtalastasan	3	0	3
18 SS 23	Soil Fertility & Fertilizer	2	3		Spch 11 Chem 127	Speech Communication	3	0	3
19	Son rerainty a rerainzer	2	3	<u>3</u> 20	Chem 121	Organic Chemistry II	3	0	3
20				20					20
21	Second Semester					Second Competer			
22 Course No.		1	1 -6	Linita	Course No.	Second Semester			
23 Chem 112	Inorganic Chemistry	Lec 2	Lab 6	Units	Course No.		Lec	Lab	
24 Chem 146	Analytical Chemistry II	3	6	5	Chem 112	Inorganic Chemistry	2	6	4
25 Chem 198	Res. Planning & Manus. Prep	3	0	3	Chem 146	Analytical Chemistry II	3	6	5
26 Micro 22	General Microbiology	2	3	3	Chem 198 Micro 22	Res. Planning & Manus. Prep	3	0	3
27 SocSci 16	Life & Works of Rizal	3	0	3	SocSci 16	General Microbiology	2	3	3
28 Stat 21	Elementary Statistics	2	3			Life & Works of Rizal	3	0	3
29	Liementary Statistics	2	3	3	Fil 26	Panitikang Filipino	3	0	3
30				21					21
31			CI	UMME	D				
32			3	OIVIIVIE	.,				
33 Course No.	Descriptive Title	Lec	Lab	Units	Course No	Descriptive Title			
34 Chem 148	Technical Analysis I	0	6	2	Course No.	Descriptive Title	Lec		Units
35 Chem 149	Technical Analysis II	0	6	2	Chem 31a	Biochemistry Laboratory	3	0	3
36 Chem 200	Undergraduate Thesis	·	·			Biochemistry Laboratory Undergraduate Thesis	0	6	2
37	The state of the s			5	Chem 200.1	Olidergraduate Thesis			1
38				•					6
39		1	FOLI	RTH Y	FAR				
40			00.		LAIN				
41	First Semester					First Semester			
42 Course No.	Descriptive Title	Lec	Lab	Units	Course No.	Descriptive Title	1.00	1 -6	Limita
43 AS 21	Principles of Animal Science	2	3	3	Chem 113	Inorganic Chemistry II	Lec 3		Units
44 Chem 151	Physical Chemistry I	3	6	5	Chem 151	Physical Chemistry		0	3
45 Hum 11	Introduction to Humanities	3	0	3	Chem 153	Computational Chemistry	3	6	5
46 Chem 161	Environmental Chemistry	2	3	3	Chem 161	Environmental Chemistry	2	3	3
47 Fil 26	Sining ng Pakikipagtalastasan	2	3	3	Chem 200.1	Undergraduate Thesis	2	3	3
48 Chem 200	Undergraduate Thesis	-	•	1	Chem 200.1	Order graduate Thesis			1
49	S. Z.			18					15
50				"					
51	Second Semester					Sacand Samastar			
52 Course No.	Descriptive Title	Lec	Lab	Units	Course No.	Second Semester Descriptive Title	1	1 -1-	Limit -
53 Chem 152	Physical Chemistry II	3	6	5	Chem 152		Lec		Units
54 Chem 162	Developments in Chemistry	3	0	3	Chem 162	Physical Chemistry II Developments in Chemistry	3	6	5
55 Chem 172	Industrial Chemistry	3	0	3	Chem 172		3	0	3
56 Chem 199	Undergraduate Seminar	1	0	1	Chem 199	Industrial Chemistry Undergraduate Seminar	3	0	3
57 Chem 200	Undergraduate Thesis			4	Chem 200.1		1	0	1
58 Fil 26	Panitikang Filipino	3	0	3	Official 200.1	Undergraduate Thesis			4
59				19					16

2 3	B. Comparison based on Course Analysis			
4 5 6	BSAC Curriculum		BS Chem Curriculum	
7	1. General Education (60 units)		1. General Education (60 units)	
8	1.1 Language, Speech, Humanities (24 ur	nits)	1.1 Language, Speech, Humanities (24 ur	nits)
9	Engl 11 Communication Skills I	3	Engl 11 Communication Skills I	3
10	Engl 12 Communication Skills II	3	Engl 12 Communication Skills II	3
11	Engl 21 Introduction to Literature	3	Engl 21 Introduction to Literature	3
12	Speech 11 Speech Communication	3	Speech 11 Speech Communication	3
13	Fil 25 Sining ng Pakikipagtalastasan	3	Fil 25 Sining ng Pakikipagtalastasan	3
14	Fil 26 Panitikang Filipino	3	Fil 26 Panitikang Filipino	3
15	Hum 11 Introduction to Humanities	3	Hum 11 Introduction to Humanities	3
16 17 18	Philo12 Contemporary Philosophical Thoughts	3 24	Philo12 Contemporary Philosophical Thoughts	3 24
19	1.2 Mathematics & Natural Sciences (18	units)	1.2 Mathematics & Natural Sciences (18 t	units)
20	Math 11 College Algebra	3	Math 11 College Algebra	3
21	Math 12 Plane Trigonometry	3	Math 12 Plane Trigonometry	3
22	Chem 11 General Chemistry I	4	Chem 11 General Chemistry I	4
23	Bio 11 General Biology	4	Bio 11 General Biology	4
24 25	Phys 11 General Physics	<u>4</u> 18	Phys 11 General Physics	<u>4</u> 18
26	1.3 Social Sciences (15 units)		1.3 Social Sciences (15 units)	
27	Socio 11 General Sociology	3	Socio 11 General Sociology	3
28	Psych 11 General Psychology	3	Psych 11 General Psychology	3
29	SocSci 13 Socio Economic Systems	3	SocSci 13 Socio Economic Systems	3
30	SocSci 14 Phil. Soc. Prob., Land		SocSci 14 Phil. Soc. Prob., Land	
31	Reform & Taxation	3	Reform & Taxation	3
32 33	SocSci 15 Phil. His & Constitution	3 15	SocSci 15 Phil. His & Constitution	3 15
34	1.4 Rizal Course (3 units)		1.4 Rizal Course (3 units)	
35	SocSci 16 Life & Works of Rizal	3	SocSci 16 Life & Works of Rizal	3

1	2. Fundamental	Courses (38 units)		2. Fundamental	Courses (20 units)	
2	Chem 21	General Chemistry II	3	Chem 21	General Chemistry II	3
3	Phys 21	College Physics	3	. Phys 21	College Physics	3
4	Chem 31	Biochemistry	3	Chem 31	Biochemistry	3
5	Chem 31a	Biochemistry Laboratory	2	Chem 31a	Biochemistry Laboratory	2
6	Stat 21	Elementary Statistics	3	Stat 21	Elementary Statistics	3
7	CS 21	Intro to Comp Science	3	CS 21	Intro to Comp Science	3
8	Micro 22	General Microbiology	3	Micro 22	General Microbiology	3
9	Bot 21	General Botany	3			20
10	Zoo 21	General Zoology	3			
11	SS 22	Fund. of Soil Science	3			
12	PP 21	Prin. of Plant Protection	on 3			
13	SS 23	Soil Fertility & Fertilizer	. 3			
14	AS 21	Prin. of Animal Science	3			
15			38			
16	3. Major Course	es (70 units)		3. Major Course	s (78 units)	
17	A. Chemistry			A. Chemistry		
18	Chem 111	Thermochemistry & Chemical Equilibrium	2	Chem 111	Thermochemistry &	_
		Chemical Equilibrium	3		Chemical Equilibrium	3
20	Chem 112	Inorganic Chemistry	4	Chem 112	Inorganic Chemistry	4
21	Chem 125	Organic Chemistry I	5	Chem 113	Inorganic Chemistry II	3
22	Chem 126	Organic Chemistry II	5	Chem 125	Organic Chemistry I	5
23	Chem 145	Analytical Chemistry I	5	Chem 126	Organic Chemistry II	5
24	Chem 146	Analytical Chemistry II	5	Chem 127	Organic Chemistry III	3
25	Chem 148	Technical Analysis I	2	Chem 145	Analytical Chemistry I	5
26	Chem 149	Technical Analysis II	2	Chem 146	Analytical Chemistry II	5
27	Chem 151	Physical Chemistry I	5	Chem 151	Physical Chemistry I	5
28	Chem 152	Physical Chemistry II	5	Chem 152	Physical Chemistry II	5
29	Chem 161	Environmental Chemistry	3	Chem 153	Computational Chemistry	3
30	Chem 162	Devts. in Chem	3	Chem 161	Environmental Chemistry	3
31	Chem 172	Industrial Chemistry	3	Chem 162	Devts. in Chem	3
32	Chem 198	Res. Plan & Manus Prep	3	Chem 172	Industrial Chemistry	3
33	Chem 199	Undergraduate Seminar	1	Chem 198	Res. Plan & Manus Prep	3
34 35	Chem 200	Undergraduate Thesis	<u>6</u>	Chem 199	Undergraduate Seminar	1
36			00	Chem 200.1	Undergraduate Thesis	6
37	B. Others					65
38	Math 112 Ar	nal Geometry & Calculus I	5	B. Others		
39	Math 113 An	al Geometry & Calculus II	<u>5</u>	Math 112 An	al Geometry & Calculus I	5
40			10	Math 113 An	al Geometry & Calculus II	5
41 42				CS 134 Prin	n. Computer Programmin	<u>g3</u> 13
43	TOTAL UNITS	168		TOTAL UNITO		
		108		TOTAL UNITS	158	

1	V. PROPOSED E	BS CHEMISTRY CURRICULUM			
2 3 4	FIRST YEAR				
5	First Semester Course No.	Descriptive Title	Lec	Lab	Units
7	Bio 11 Chem 11	General Biology	3	0	3
9	Engl 11	General Chemistry I Communication Skills I	3 3 3 3 2	6	5
10	Math 11	College Algebra	3	0	3
11	Psych 11	General Psychology	3	Ö	3
12	SocSci 13	Socio-Economic Systems	3	0	3 3 3 3
13	PhyEd 11	Physical Fitness & Gymnastics	2		(2)
14	Euth 11	Personality Development & Adjustment			
15	ROTC 11	First Year basic Course	1		(1/1.5)
16					
17 18	Canand Camantan				20
19	Second Semester Course No.	Descriptive Title	100	Lab	Unito
20	Chem 21	General Chemistry II	Lec	Lab 3	Units
21	Engl 12	Communication Skills II	2 3 3	0	3
22	Stat 21	Elementary Statistics	3	0	3
23	Math 12	Plane Trigonometry	3	Ö	3
24	SocSci 14	Philippine Society, Problem, Land Reform			
25		& Taxation	3	0	3
26	Socio 11	General Sociology	3	0	3
27	Hum 11	Introduction to Humanities	3	0	3
28	PhyEd 12	Recreational Games & Rhythmic Activity	2		(2)
29 30	Euth 12 ROTC 12	Human Relationship			(4 (4 5)
31	ROIC 12	First Year Basic Course	1		(1/1.5)
32					21
33	SECOND YEAR				21
34					
35	First Semester				
36	Course No.	Descriptive Title	lec	Lab	Units
37	Chem 111	Thermochemistry & Chem'l Equilibrium	2	3	3
38	Chem 125	Organic Chemistry I	3	6	5
39 40	Engl 21	Introduction to Literature	3 3 5	0	3 5
41	Math 112 Phys 11	Analytic Geometry & Calculus I General Physics	5	0	5
42	PhyEd 13	Team Sports	3 2	3	4
43	Euth 13	Moral and Spiritual Values	2		(2)
44	ROTC 21	Second Year Basic Course	1		(1/1.5)
45					(171.0)
46					20
47	Second Semester				
48 49	Course No	Decembring Title			
50	Course No. Chem 126	Descriptive Title	Lec	Lab	Units
51	Math 113	Organic Chemistry II Analytic Geometry & Calculus II	3	6	5
52	Phys 21	College Physics	5 2 2 3 2	0	5 3 3 3
53	CS 21	Introduction to Computer Science	2	3	3
54	SocSci 15	Phil History Government & Constitution	3	0	3
55	PhyEd 14	Individual-Dual Sports	2		(2)
56	Euth 14	Career Development			\-/
57	ROTC 22	Second Year Basic Course	1		(1/1.5)
58 59					
60					19
61	SUMMER				
62	None				
63					
64					
65					
66 67					
68					

1 2 3 4 5 6 7	THIRD YEAR					
4 5	First Semester					
8 9 10 11 12 13 14	Course No. Chem 127 Chem 145 CS 134 Philo 12 Fil 25 Spch 11	Descriptive Title Organic Chemistry III Analytical Chemistry I Principles of Computer Pr Contemporary Philosophic Sining ng Pakikipagtalasta Speech Communication	cal thoughts	Lec 3 3 2 3 3 3	Lab 0 6 3 0 0	Units 3 5 3 3 3 3 20
15 16 17	Second Semeste	[20
17 18 19 20 21 22 23	Course No. Chem 112 Chem 146 Chem 198 Micro 22	Descriptive Title Inorganic Chemistry Analytical Chemistry II Research Planning & Man Preparation General Microbiology	uscript	Lec 2 3 3	Lab 6 6	Units 4 5
24 25 26 27 28	SocSci 16 Fil 26 Summer	Life & Works of Rizal Panitikang Filipino		3 2 3 3	3 0 0	3 3 3 21
29 30 31 32 33 34	Course No. Chem 31 Chem 31a Chem 200.1	Descriptive Title Biochemistry Biochemistry Laboratory Undergraduate Thesis		3 0	Lab 0 6	Units 3 2 1 6
35 36	FOURTH YEAR					
37 38 39 40 41 42 43 44 45	First Semester Course No. Chem 113 Chem 151 Chem 153 Chem 161 Chem 200.1	Descriptive Title Inorganic Chemistry II Physical Chemistry I Computational Chemistry Environmental Chemistry Undergraduate Thesis		Lec 3 3 3 2	Lab 0 6 0 3	Units 3 5 3 1
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	Second Semester Course No. Chem 152 Chem 162 Chem 172 Chem 199 Chem 200.1	Descriptive Title Physical Chemistry II Developments in Chemistry Industrial Chemistry Undergraduate Seminar Undergraduate Thesis		Lec 3 3 3 1	Lab 6 0 0 0	15 Units 5 3 1 4 16
67 68						

1

VII. FACILITIES

6

LABORATORY Facilities

Laboratory rooms with acid-proof tables and emergency devices

8	Equipment	Qty	Equipment	Qty
9	Analytical Balance	2	Rotary Evaporator	1
10	• Oven	2	Fume Hood	3
11	Muffle Furnace	2	 Crude Fat and Fiber Extraction Set-up 	1
13	 Kjeldahl Digestion and Distillation Set-up 	1	Heating Mantle	. 1
15 16	 Ultraviolet-Visible Spectrophotometer 	2	Vacuum Oven	1
17 18	 Atomic Absorption Spectrophotometer 	1	Freeze Dryer	1
19	pH Meter	1	 Magnetic Stirrer/Hot Plate 	2
20 21	 Automatic Titration System 		Extraction Apparatus	1
22	 Polarimeter 	1	Micropipette	3
23	 Refractometer 	2	 Automatic Dispenser 	1
24	 Viscometer 	2	Water Circulator	1
25	 Water Distiller 	2	 Carver Hydraulic Press 	1
26	 Organic Chem Kit 	1	 Retch Laboratory Grinder 	1
27	Wiley-Mill	2	 Melting point apparatus 	2
28	 Stereozoom Microscope 	1	Turbidimeter	1
29	Autoclave	2	Hydrometer	4 sets
30 31	Westphal Balance	1	Triple Beam / Platform Balance	6
32 33	 Camag Thin Layer Chromatography 	1	UV-viewing cabinet	1
34	Spreader			
35	 Paper electrophoresis 	1	 Conductometer 	1
36 37	 Vacuum pump 	2	 Oxygen meter 	1
38	Salinimeter	1.	 Mechanical Shaker 	2
39 49				
41	INSTRUCTION/OFFICE FACILIT	TES		
43 44 45 46	riojectors, ocieens, RAM	SA" SOUR	ed with AV devices such as Code system for large lecture connection, Mimeographing I	010000

INSTRUCTION/OFFICE FACILITIES

Lecture halls and classrooms equipped with AV devices such as Overhead Projectors, Screens, "RAMSA" sound system for large lecture classes, Microphones, Computer with Internet connection, Mimeographing Machine, Electronic Stencil Scanner

VIII THOUGHT THOUGHT
ACABAL, Alice M., Ph.D.
Associate Professor
Organic Chemistry & Natural Products
ACABAL, Andresito D., Ph.D.
Associate Professor
Fermentation & Enzyme Technology
041100 0 11 11 11 110
CALIBO, Candelario L., M.S.
Associate Professor
Biochemistry & Inorganic Chemistry
DE LA POSA Lindo S. Bh.D. (Affiliata)
DE LA ROSA, Linda S., Ph.D. (Affiliate) Professor
Food Chemistry
r ood chemistry
JANSALIN, Jacob Glenn F., M.S.
Associate Professor
Analytical Chemistry & Environmental Chemistry
The state of the s
LANDERITO, Erlinda O., Ph.D.
Associate Professor and Head
Organic Chemistry & Biochemistry
LORETO, Ma. Theresa P., M.S.
Assistant Professor
Biochemistry
RAMAL, Allan A., B.S.
Instructor
Agricultural Chemistry
CALAC ENTER DE D
SALAS, Felix M., Ph.D. Associate Professor
Organic Chemistry & Environmental Chemistry
TULIN, Anabella, B., D.Ag.Sci. (Affiliate)
Associate Professor
Agricultural Science
.g. realist de de la

1 VIII. FACULTY PROFILE

Appendix Table I. BS Chem Survey results

High School	Prefere	nce for	BS Chem		%
	Yes	No	Abstain	Respondents	Yes
Baybay National High School	9	10	1	20	45
Bunga National High School Baybay, Leyte	7	12	1	20	35
Franciscan College of Immaculate Conception Baybay, Leyte	5	15	-	20	25
Ipil National High School Ipil, Ormoc City	7	11	-	18	39
LSU – LHS Baybay, Leyte	7	10	-	17	41
St. Peters College Ormoc City	7	12	-	19	37
Valencia National High School Valencia, Ormoc City	19	1	-	20	95
	61	71	2	134	46%