

22	16A33C307	EXPERIMENT OF ORGANIC CHEMISTRY II	2	3	A	4.00	8.00
23	16A33C308	BASIC OF SCIENCE EDUCATION	2	3	B	3.00	6.00
24	16A33C309	CHEMISTRY LIBRARY	2	3	A	4.00	8.00
25	16A33C310	INTRODUCTION OF EDUCATION	2	3	B	3.00	6.00
26	16A33C401	ANALYTICAL CHEMISTRY II	3	4.5	B+	3.50	10.50
27	16A33C402	EXPERIMENT OF ANALYTICAL CHEMISTRY II	1	1.5	A-	3.75	3.75
28	16A33C403	PHYSICAL CHEMISTRY II	3	4.5	B-	2.75	8.25
29	16A33C404	EXPERIMENT OF INORGANIC CHEMISTRY	2	3	B	3.00	6.00
30	16A33C405	PHYSICAL INORGANIC CHEMISTRY	2	3	B	3.00	6.00
31	16A33C406	ORGANIC CHEMISTRY III	2	3	A	4.00	8.00
32	16A33C407	EXPERIMENT OF PHYSICAL CHEMISTRY I	1	1.5	A-	3.75	3.75
33	16A33C408	BIOCHEMISTRY	3	4.5	B	3.00	9.00
34	16A33C410	STUDENT PSYCHOLOGY DEVELOPMENT	2	3	A	4.00	8.00
35	16A33C411	CHEMICAL BONDING	2	3	B+	3.50	7.00
36	16A33C501	INSTRUMENT OF ANALYTICAL CHEMISTRY	2	3	A-	3.75	7.50
37	16A33C502	EXPERIMENT INSTRUMENT OF ANALYTICAL CHEMISTRY	1	1.5	B+	3.50	3.50
38	16A33C503	EXPERIMENT OF BIOCHEMISTRY	2	3	A	4.00	8.00
39	16A33C504	EXPERIMENT OF PHYSICAL CHEMISTRY II	1	1.5	A-	3.75	3.75
40	16A33C506	FOOD CHEMISTRY	3	4.5	A	4.00	12.00
41	16A33C507	LEARNING AND TEACHING	3	4.5	B-	2.75	8.25
42	16A33C508	CHEMISTRY TEACHING AND LEARNING STRATEGY	3	4.5	B+	3.50	10.50
43	16A33C509	CHEMISTRY INSTRUCTION PLANNING	3	4.5	B-	2.75	8.25
44	16A33C201A	ISLAMIC STUDY	2	3	A	4.00	8.00
45	16A33C205	CHEMISTRY LABORATORY MANAGEMENT	2	3	B	3.00	6.00
46	16A33C409	TEACHING PROFESSION	2	3	B	3.00	6.00
47	16A33C601	ENVIRONMENTAL CHEMISTRY	2	3	A-	3.75	7.50
48	16A33C602	CHEMISTRY CURRICULUM REVIEW	3	4.5	B-	2.75	8.25
49	16A33C603	RESEARCH METHOD OF CHEMISTRY EDUCATION	3	4.5	B+	3.50	10.50

50	16A33C604	MICROTEACHING (PPL I)	2	3	A	4.00	8.00
51	16A33C605	SEMINAR OF CHEMISTRY EDUCATION	2	3	A	4.00	8.00
52	16A33C606	ENTREPRENEURSHIP	2	3	A	4.00	8.00
53	16A33C611	INDUSTRIAL MICROBIOLOGY	2	3	B+	3.50	7.00
54	16A33C505	NUCLEAR AND RADIOCHEMISTRY	2	3	A	4.00	8.00
55	16A33C511	IT BASED LEARNING MEDIA	2	3	A	4.00	8.00
56	16A33C512	PHARMACEUTICAL CHEMISTRY	2	3	A	4.00	8.00
57	16A33C702	COMMUNITY EXPERIENCE (KKN)	3	4.5	A	4.00	12.00
58	16A33C703	NATURAL ORGANIC CHEMISTRY	2	3	A	4.00	8.00
59	16A33C706	COMPUTATIONAL CHEMISTRY	2	3	A	4.00	8.00
60	16A33C701	TEACHING EXPERIENCE (PPL II)	4	6	A	4.00	16.00
61	16A33C510	ASSESSMENT OF CHEMISTRY INSTRUCTION	3	4.5	A	4.00	12.00
62	16A33C801	THESIS	6	9	A	4.00	24.00
		Overall Programmes Credits	145	217.5			518.75
		Passed Programme	145				
		GPA				3.58	

Note

Name : MUH. FA'IQ ZHAHIRIN

Thesis title : " Analysis of Student Misconception Class XI MIA 2 SMA Negeri 1 Soppeng on Buffer Solution Subject "

$$\text{GRADE-POINT AVERAGE : } \frac{\text{CSU X Number}}{\text{CSU Total}} = \frac{518.75}{145} = \frac{518.75}{145} = 3.58$$

"EXCELENT"

Makassar, 16 Desember 2020

Dean,



Drs. Suwardi Annas, M.Si., Ph.D
NIP. 196912311994031110



MINISTRY OF RESEARCH, TECHNOLOGY AND HIGHER EDUCATION
UNIVERSITAS NEGERI MAKASSAR

Permit No. 30, 1961; August 1, 1961

ENCLOSURE OF CERTIFICATE

“LIST OF SUBJECT COMPLETED”

Name : JUNIARTI DWI LESTARI ARHAM Number : 842042020000192
Place/Date of Birth : UJUNG PANDANG, 17 June 1998 ID : 1613441004
Study Programme : Chemistry Education - (S1) Faculty : MATHEMATICS AND SCIENCE

Programme : Bachelor Degree Graduated in : August 14, 2020

Number	Code	Programme	CSU	ECTS	Mark		CSU x Number
					Grade	Number	
1	16A33C101	CALCULUS	2	3	B	3.00	6.00
2	16A33C102	BASIC PHYSICS	3	4.5	A-	3.75	11.25
3	16A33C103	BASIC CHEMISTRY	3	4.5	A-	3.75	11.25
4	16A33C104	GENERAL BIOLOGY	3	4.5	B	3.00	9.00
5	16A33C105	BASIC OF STATISTIC	2	3	A	4.00	8.00
6	16A33C106	LIFE ENVIRONMENTAL EDUCATION	2	3	A	4.00	8.00
7	16A33C107	PANCASILA	2	3	A	4.00	8.00
8	16A33C108	ENGLISH	3	4.5	B-	2.75	8.25
9	16A33C201A	ISLAMIC STUDY	2	3	A	4.00	8.00
10	16A33C202	CIVIC EDUCATION	2	3	B	3.00	6.00
11	16A33C203	INDONESIAN	2	3	A	4.00	8.00
12	16A33C204	ADVANCE BASIC CHEMISTRY	3	4.5	A-	3.75	11.25
13	16A33C205	CHEMISTRY LABORATORY MANAGEMENT	2	3	A-	3.75	7.50
14	16A33C206	ORGANIC CHEMISTRY I	3	4.5	A	4.00	12.00
15	16A33C207	EXPERIMENT OF ORGANIC CHEMISTRY I	2	3	A	4.00	8.00
16	16A33C208	MATHEMATICAL CHEMISTRY	2	3	A-	3.75	7.50
17	16A33C209	INORGANIC CHEMISTRY I	2	3	B-	2.75	5.50
18	16A33C301	ANALYTICAL CHEMISTRY I	3	4.5	B	3.00	9.00
19	16A33C302	EXPERIMENT OF ANALYTICAL CHEMISTRY I	1	1.5	A	4.00	4.00
20	16A33C304	PHILOSOPHY OF SCIENCE	2	3	A	4.00	8.00

21	16A33C305	INORGANIC CHEMISTRY II	2	3	B+	3.50	7.00
22	16A33C306	ORGANIC CHEMISTRY II	3	4.5	A	4.00	12.00
23	16A33C307	EXPERIMENT OF ORGANIC CHEMISTRY II	2	3	B+	3.50	7.00
24	16A33C308	BASIC OF SCIENCE EDUCATION	2	3	A-	3.75	7.50
25	16A33C309	CHEMISTRY LIBRARY	2	3	A-	3.75	7.50
26	16A33C310	INTRODUCTION OF EDUCATION	2	3	B+	3.50	7.00
27	16A33C401	ANALYTICAL CHEMISTRY II	3	4.5	B+	3.50	10.50
28	16A33C402	EXPERIMENT OF ANALYTICAL CHEMISTRY II	1	1.5	A	4.00	4.00
29	16A33C403	PHYSICAL CHEMISTRY II	3	4.5	B	3.00	9.00
30	16A33C404	EXPERIMENT OF INORGANIC CHEMISTRY	2	3	B+	3.50	7.00
31	16A33C405	PHYSICAL INORGANIC CHEMISTRY	2	3	B+	3.50	7.00
32	16A33C407	EXPERIMENT OF PHYSICAL CHEMISTRY I	1	1.5	B+	3.50	3.50
33	16A33C408	BIOCHEMISTRY	3	4.5	B+	3.50	10.50
34	16A33C410	STUDENT PSYCHOLOGY DEVELOPMENT	2	3	A-	3.75	7.50
35	16A33C411	CHEMICAL BONDING	2	3	B+	3.50	7.00
36	16A33C409	TEACHING PROFESSION	2	3	A	4.00	8.00
37	16A33C601	ENVIRONMENTAL CHEMISTRY	2	3	A	4.00	8.00
38	16A33C602	CHEMISTRY CURRICULUM REVIEW	3	4.5	A	4.00	12.00
39	16A33C603	RESEARCH METHOD OF CHEMISTRY EDUCATION	3	4.5	A	4.00	12.00
40	16A33C604	MICROTEACHING (PPL I)	2	3	A	4.00	8.00
41	16A33C605	SEMINAR OF CHEMISTRY EDUCATION	2	3	A	4.00	8.00
42	16A33C606	ENTREPRENEURSHIP	2	3	A	4.00	8.00
43	16A33C507	LEARNING AND TEACHING	3	4.5	A-	3.75	11.25
44	16A33C509	CHEMISTRY INSTRUCTION PLANNING	3	4.5	A	4.00	12.00
45	16A33C510	ASSESSMENT OF CHEMISTRY INSTRUCTION	3	4.5	A	4.00	12.00
46	16A33C501	INSTRUMENT OF ANALYTICAL CHEMISTRY	2	3	A	4.00	8.00
47	16A33C502	EXPERIMENT INSTRUMENT OF ANALYTICAL CHEMISTRY	1	1.5	A	4.00	4.00
48	16A33C503	EXPERIMENT OF BIOCHEMISTRY	2	3	A	4.00	8.00

49	16A33C504	EXPERIMENT OF PHYSICAL CHEMISTRY II	1	1.5	A	4.00	4.00
50	16A33C505	NUCLEAR AND RADIOCHEMISTRY	2	3	A-	3.75	7.50
51	16A33C506	FOOD CHEMISTRY	3	4.5	A	4.00	12.00
52	16A33C508	CHEMISTRY TEACHING AND LEARNING STRATEGY	3	4.5	A	4.00	12.00
53	16A33C511	IT BASED LEARNING MEDIA	2	3	A	4.00	8.00
54	16A33C512	PHARMACEUTICAL CHEMISTRY	2	3	A	4.00	8.00
55	16A33C703	NATURAL ORGANIC CHEMISTRY	2	3	A-	3.75	7.50
56	16A33C704	WASTE MANAGEMENT	2	3	A	4.00	8.00
57	16A33C706	COMPUTATIONAL CHEMISTRY	2	3	A	4.00	8.00
58	16A33C701	TEACHING EXPERIENCE (PPL II)	4	6	A	4.00	16.00
59	16A33C702	COMMUNITY EXPERIENCE (KKN)	3	4.5	A	4.00	12.00
60	16A33C801	THESIS	6	9	A	4.00	24.00
61	16A33C303	PHYSICAL CHEMISTRY I	3	4.5	A-	3.75	11.25
62	16A33C406	ORGANIC CHEMISTRY III	2	3	A-	3.75	7.50
		Overall Programmes Credits	145	217.5		543.50	
		Passed Programme	145				
		GPA				3.75	

Note

Name : JUNIARTI DWI LESTARI ARHAM

Thesis title : "The Effect of Mind Mapping Method in Discovery Learning Model on Student Learning Outcomes of Class XI MIPA SMAN 21 Makassar (Study on Acid Base)"

$$\text{GRADE-POINT AVERAGE : } \frac{\text{CSU X Number}}{\text{CSU Total}} = \frac{543.50}{145} = \frac{543.50}{145} = 3.75$$

"CUMLAUDE"

Makassar, 14 August 2020



Drs. Suwardi Annas, M.Si., Ph.D
NIP. 196912311994031110



MINISTRY OF RESEARCH, TECHNOLOGY AND HIGHER EDUCATION
UNIVERSITAS NEGERI MAKASSAR

Permit No. 30, 1961; August 1, 1961

ENCLOSURE OF CERTIFICATE

“LIST OF SUBJECT COMPLETED”

Name : UMMU SALAMAH Number : 842042020000194
Place/Date of Birth : Ujung Pandang, 04 July 1997 ID : 1513440005
Study Programme : Chemistry Education - (S1) Faculty : MATHEMATICS AND SCIENCE

Programme : Bachelor Degree Graduated in : June 26, 2019

Number	Code	Programme	CSU	ECTS	Mark		CSU x Number
					Grade	Number	
1	14A33C101	CALCULUS	3	4.5	A	4.00	12.00
2	14A33C102	BASIC PHYSIC	3	4.5	A	4.00	12.00
3	14A33C103	BASIC CHEMISTRY	3	4.5	A	4.00	12.00
4	14A33C105	GENERAL BIOLOGY	3	4.5	B	3.00	9.00
5	14A33C106	ENVIRONMENTAL SCIENCE	2	3	A	4.00	8.00
6	14A33C108	INTRODUCTION AND MANAGEMENT CHEMISTRY LABORATORY	2	3	A-	3.75	7.50
7	14A33C110	PHILOSOPHY OF SCIENCE	2	3	A	4.00	8.00
8	14A33C111	MATHEMATICS FOR CHEMISTRY	2	3	A-	3.75	7.50
9	14A33C201A	ISLAMIC STUDY	2	3	A	4.00	8.00
10	14A33C202	CIVIC EDUCATION	2	3	A	4.00	8.00
11	14A33C203	INDONESIAN	2	3	B+	3.50	7.00
12	14A33C204	ADVANCED CHEMISTRY	3	4.5	A-	3.75	11.25
13	14A33C205	CHEMISTRY LITERATURE	2	3	A	4.00	8.00
14	14A33C207	INORGANIC CHEMISTRY I	2	3	A-	3.75	7.50
15	14A33C208	ORGANIC CHEMISTRY I	3	4.5	B-	2.75	8.25
16	14A33C209	EXPERIMENT OF ORGANIC CHEMISTRY I	2	3	A	4.00	8.00
17	14A33C210	PANCASILA	2	3	A	4.00	8.00
18	14A33C301	ANALYTICAL CHEMISTRY I	3	4.5	B+	3.50	10.50
19	14A33C302	EXPERIMENT OF ANALYTICAL CHEMISTRY I	1	1.5	A-	3.75	3.75
20	14A33C305	INORGANIC CHEMISTRY II	2	4.5	A-	3.75	7.50
21	14A33C306	ORGANIC CHEMISTRY II	3	3	B	3.00	9.00

22	14A33C307	EXPERIMENT OF ORGANIC CHEMISTRY II	2	3	A	4.00	8.00
23	14A33C309	LEARNING AND INSTRUCTION	3	4.5	C	2.00	6.00
24	14A33C310	INTRODUCTION OF EDUCATION	2	3	B-	2.75	5.50
25	14A33C311	ENGLISH	3	4.5	A	4.00	12.00
26	14A33C312	BASIC OF SCIENCE EDUCATION	2	3	A	4.00	8.00
27	14A33C401	ANALYTICAL CHEMISTRY II	3	4.5	A-	3.75	11.25
28	14A33C402	EXPERIMENT ANALYTICAL CHEMISTRY II	1	1.5	A	4.00	4.00
29	14A33C403	PHYSICAL CHEMISTRY II	3	4.5	B	3.00	9.00
30	14A33C404	EXPERIMENT IN INORGANIC CHEMISTRY	2	3	A-	3.75	7.50
31	14A33C405	PHYSICAL INORGANIC CHEMISTRY	2	3	B	3.00	6.00
32	14A33C406	ORGANIC CHEMISTRY III	2	3	C	2.00	4.00
33	14A33C407	EXPERIMENT IN PHYSICAL CHEMISTRY I	1	1.5	B+	3.50	3.50
34	14A33C408	BIOCHEMISTRY	3	4.5	B	3.00	9.00
35	14A33C409	TEACHING PROFESSION	2	3	B+	3.50	7.00
36	14A33C410	STUDENT PSYCHOLOGICAL DEVELOPMENT	2	3	A-	3.75	7.50
37	14A33C501	INSTRUMENT OF ANALYTICAL CHEMISTRY	2	3	A-	3.75	7.50
38	14A33C502	EXPERIMENT INSTRUMENT OF ANALYTICAL CHEMISTRY	1	1.5	B+	3.50	3.50
39	14A33C504	EXPERIMENT OF PHYSICAL CHEMISTRY II	1	1.5	A	4.00	4.00
40	14A33C505	NUCLEAR AND RADIOCHEMISTRY	2	3	B	3.00	6.00
41	14A33C506	FOOD CHEMISTRY	3	4.5	A-	3.75	11.25
42	14A33C507	EXPERIMENT OF BIOCHEMISTRY	2	3	B+	3.50	7.00
43	14A33C508	CHEMISTRY TEACHING AND LEARNING STRATEGY	3	4.5	A	4.00	12.00
44	14A33C509	CHEMISTRY INSTRUCTION PLANNING	3	4.5	A	4.00	12.00
45	14A33C510	ASSESSMENT OF CHEMISTRY INSTRUCTION	3	4.5	B	3.00	9.00
46	14A33C511	STATISTIC METHOD	2	3	B	3.00	6.00
47	14A33C411	CHEMICAL BONDING	2	3	B	3.00	6.00
48	14A33C601	ENVIRONMENTAL CHEMISTRY	2	3	B+	3.50	7.00
49	14A33C602	CHEMISTRY CURRICULUM REVIEW	3	4.5	B	3.00	9.00

50	14A33C603	RESEARCH METHOD OF CHEMISTRY EDUCATION	3	4.5	B+	3.50	10.50
51	14A33C604	MICROTEACHING (PPL I)	2	3	A	4.00	8.00
52	14A33C605	SEMINAR OF CHEMISTRY EDUCATION	2	3	A-	3.75	7.50
53	14A33C608	INTRODUCTION OF BIOTECHNOLOGY	2	3	A	4.00	8.00
54	14A33C609	INDUSTRIAL CHEMISTRY	2	3	A	4.00	8.00
55	14A33C610	ENTREPRENEURSHIP	2	3	A	4.00	8.00
56	14A33C611	INDUSTRIAL MICROBIOLOGY	2	3	A	4.00	8.00
57	14A33C612	CHEMISTRY CURRICULUM VOCATIONALSTUDY	2	3	A	4.00	8.00
58	14A33C303	PHYSICAL CHEMISTRTY I	3	4.5	B+	3.50	10.50
59	14A33C702	TEACHING EXPERIENCE (PPL II)	4	6	A	4.00	16.00
60	14A33C703	COMMUNITY EXPERIENCE (KKN)	3	4.5	A	4.00	12.00
61	14A33C801	THESIS	6	9	A	4.00	24.00
		Overall Programmes Credits	144	216			517.75
		Passed Programme	144				
		GPA				3.60	

Note :

Name : UMMU SALAMAH

Thesis title : " The Effect of Question Student Have Method in Guided Inquiry Learning Model Towards Learning Outcomes of Students Grade XI MIA MAN 2 Makassar (Study on Buffer Solution Subject Matter) "

$$\text{GRADE-POINT AVERAGE : } \frac{\text{CSU X Number}}{\text{CSU Total}} = \frac{517.75}{144} = \frac{517.75}{144} = 3.60$$

“EXCELENT”

Makassar, 26 June 2019

Dean,



Drs. Suwardi Annas, M.Si., Ph.D
FMIPNIP 196912311994031110