	Lecture Por	tfolio			
	SRIWIJAYA UNIVERSITY				
	FACULTY OF AGRICULTURE				
	DEPARTMENT OF SOIL SCIENCE				
And the second second	SOIL SC	IENCE STUDY PROG	RAM		
Subject : Soil Chemistry	Code: PTN 2 3215	Semester : 3	Credits : 3 (2-1)		
Lecturer	Dr. Ir. Marsi, M.Sc. (MS) Dr. Ir. Agus Hermawan, M	Г (АН)			

Introduction

This course is a basic skill course for students of the Soil Science Study Program, Faculty of Agriculture, Sriwijaya University. After completing this course, students understand the basic aspects of Soil Chemistry through understanding Basic Chemistry aspects. This course provides students with provisions on: 1) Application of solution chemistry in aspects of nutrient solution in soil; 2) Application of acid-base principles in the aspect of soil reactions; 3) Application of the principles of Oxidation and Reduction in oxidation-reduction reactions in soil; 4) Soil colloids in relation to the surface area and load of the soil; 5) The basic principle of ion exchange; 6) Metals and their interactions with soil components; and 7) Specific soil chemical properties. Soil Chemistry learning uses lecture and discussion methods, case studies, as well as independent and group work . Students are evaluated by quizzes, exams, assignments and practicums.

Intended Learning Outcomes - ILO

This course is taught to support the following Intended Learning Outcomes (ILO):

- ILO-1: Able to apply logical, critical, systematic, and innovative thinking in the context of the development or implementation of science and technology that pays attention to and applies humanities values in accordance with their field of expertise (KU-1)
- ILO-2: Able to be responsible for the achievement of group work results and supervise and evaluate the completion of work assigned to workers under their responsibility (KU-7)
- ILO-3: Mastering knowledge about soil formation processes and soil morphology (P-1)
- ILO-4: Mastering knowledge about quality and sustainable use of land and land (P-3)

Course Learning Outcome - CLO

The Course Learning Outcome (CLO) of Soil Chemistry are:

- CLO-1: Be able to explain the scope of soil chemistry and aspects of solution chemistry inrelationship with nutrient solution in soil
- CLO-2: Be able to explain the definition and characteristics of soil colloids
- CLO-3 : Able to explain the principle of Oxidation and Reduction in the oxidation-reduction reaction at soil
- CLO-4 : Able to explain the principle of acid-base in the aspect of soil acid-base reactions
- CLO-5 : Able to explain the basic principles of adsorption and ion exchange
- CLO-6 : Able to explain about Metals and their interactions with earth components h
- CLO-7 : Able to explain specific soil chemical properties and reactions

Each Course Learning Outcomes (CLO) provide support for the Study Program Learning Outcomes (ILO) with a certain percentage, the details of which can be seen in the relationship

matrix between the CLO course of Soil Chemistry and the ILO, which is presented in Table 1.

CLO	Intended Learning Outcome - ILO							
CLO	ILO-1	ILO-2	ILO-3	ILO-4				
CLO1	0.33	0.33	0.33	0				
CLO2	0.25	0.25	0.25	0.25				
CLO3	0.25	0.25	0.25	0.25				
CLO4	0.25	0.25	0.25	0.25				
CLO5	0.25	0.25	0.25	0.25				
CLO6	0.33	0.33	0.33	0				
CLO7	0.33	0.33	0.33	0				

Table 1. Relationship Matrix between CLO and ILO MK Soil Chemistry

Learning strategies

This course presents theoretical and practical material with the following learning strategies :

- Provide access to pre-lecture materials (in pdf/ppt files and in E-learning).
- Presenting material in detail
- Asking for input from students during the material presentation session regarding whether or not the lecturer needs to re-explain or slow down the speed in explaining.
- Re-explain the parts that are not understood at the next meeting.
- Accustoming students to comment or express opinions politely to their colleagues in discussion forums.
- Practicum is carried out after 3 or 4 lecture meetings. The practicum is intended to increase students' understanding and skills in understanding the phenomenon of changes in soil chemical characteristics that have been given in lectures
- Provide case exercises that are similar to the examples that have been explained by the lecturer.
- Giving assignments according to the lecture material by referring to relevant articles/journals, and being done independently.

Lecture Management

Soil Chemistry Course has a weight of 3 credits, with 2 credits of lectures and 1 credit of practicum. Lecture meetings are scheduled once a week (2 times 50 minutes) for 14 weeks and practicum once a week (2 times 70 minutes) for 10 weeks. UTS is held on week 8, while UAS is on week 16.

Lectures:

- Schedule: Meetings are scheduled every Tuesday, 11.10 12.5 0 WIB.
 At each meeting the lecturer presents the material and at 15 until 20 minutes before the end of the lecture is used by students for practice and discussion.
- Questions from students are made at the time of the lecturer's explanation or during discussions and students are free to ask questions and discuss.
- Each meeting has specific learning outcomes according to the material presented. To measure its achievement, quizzes and assignments have been designed. The results of these quizzes and assignments are used as evaluation material, to repeat the parts that are deemed necessary at the next meeting. As designed in the RPS, for this course several assessments are given with the material and weight of each assessment on the final score as presented in Table 2. All forms of assessment above must be done independently or in

groups by students.

Course Content

- 1. Definition and scope of soil chemistry
- 2. Periodic List and important elements in soil and plants
- 3. Soil Solution and Solution Chemistry
- 4. Inorganic colloids and their characteristics
- 5. Organic colloids and their characteristics
- 6. Basic Principles of Oxidation-Reduction Reactions, Oxidation-Reduction Reactions in Soil
- 7. Pyrite Oxidation and its impact on soil
- 8. Basic principles of acid-base chemistry
- 9. Aspects of Soil Acid-Base Reactions and their influence on soil chemical characteristics
- 10. The basic principle of ion adsorption
- 11. The basic principle of ion exchange
- 12. Metals and the Formation of Complexes between metals and soil components
- 13. Chemical reactions in mineral weathering and soil formation
- 14. Characteristics and Chemical Reactions in soil affected by salt

The suitability of the lecture material designed in the curriculum with the practice can be seen in Appendix 1.

Lecturer

This course is a mandatory course for students of the Bachelor of Soil Science Study Program, Faculty of Agriculture, Sriwijaya University, who is entering the 3rd semester, and some who have entered the 5th semester who for one reason or another cannot take this elective course at the time.

Attendance Percentage

Lecturer attendance is 100% while student attendance is 98 % on average

Evaluation System

- Evaluate some materials through Quizzes and/or assignments that are used to measure understanding from 3 or 4 meetings.
- Evaluation of material up to the middle of the semester through the midterm exam (UTS), which held on the 8th week / 8th meeting.
- Evaluation of material after the middle of the semester to the end of the semester is carried out through the final semester exam (UAS), which is held on the 16th week / 16th meeting.
- The evaluation results in the form of assignments/quizzes have a proportion of 20% which will be combined with the UTS or UAS scores of 80%
- Practicum in the laboratory is carried out on the 3rd week after the lecture, which consists of 5 practicum materials carried out for 10 practicums. Evaluation of practicum material consists of attendance, mastery of practicum material which is reflected in quiz scores and practicum reports. The proportion of practicum scores includes: 10% attendance, 10% quizzes, 40% practicum exams and 40% practicum reports
- In the final grade, the proportion of Practicum scores is 30%, UTS 35%, and UAS 35%
- The material evaluated for each assessment and its weight can be seen in Table 2.

Table 2. Ass es s men ts and materials to be measured, as well as the weighting of each assessment on the final grades and Learning Outcomes (CLO) Soil Chemistry

		Weight to	Course Learning Outcome – CLO						
Assessment	Subject	Final Score	CLO 1	CLO 2	CLO 3	CLO 4	CLO 5	CLO 6	CLO 7
Practice		0.30	0.2	0.2	0.2	0.2	0.2		
Evaluation I	Material 1 -7 (Midterm exam, Assignments, Quiz)	0.35	0.33	0.33	0.33				
Evaluation II	Material 9 -15 (Final exam, Assignments, Quiz)	0.35				0.25	0.25	0.25	0.25

Learning outcomes

The learning outcomes of each student are reflected in the scores in each assessment. Values each with their respective weights is processed into the final value, which will later be in accordance with the conversion rules, converted into a letter value printed on KHS/Transcript student. In addition to being processed into final scores, the scores in each assessment, taking into account the percentage of CLO's contribution to each ILO (Table 1) and the weight of each assessment to the CLO (Table 2), are processed using excel, so that each student will have a score in each CLO and ILO. .

The description of the value of each CLO can be seen in Table 3, which presents the average achievement index of students in each CLO, and the percentage of students with achievement scores above 85.9. In accordance with the achievement categories presented in Table 4, the following conclusions can be drawn:

- All CLOs on average achieved excellent and satisfactory scores , with an average of 82.6 to 86.09 .
- All CLOs are in the high percentage category (HIGH), more than 80% of students have an achievement value above 71.

	CLO1	CLO2	CLO3	CLO4	CLO5	CLO6	CLO7
Average	86.09	86.09	86.09	85.13	85.13	82.60	82.60
Achievement Category	Excellent	Excellent	Excellent	Satisfactory	Satisfactory	Satisfactory	Satisfactory
Number of students with CLO>71	42	42	42	40	40	35	37
Percentage of students with CLO>71	97.67	97.67	97.67	93.02	93.02	81.4	86.05
Category Percentage	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH

Table 3. Description of Achievement Values and Categories for Each CLO MK Soil Chemistry



Figure 1. Graphics achievement category in each CLO at course Soil Chemistry

Table 4. Category of CLO/ILO scores, and Category	ry of Percentage of Students who achieved
CLO/ILO > 71	

CLO/ILO	Value Category	Percentage category of students with CLO/ILO >71		
Score 86 EXCELLENT			HIGH	
71 Score < 85.99	SATISFACTORY	60 - < 79	MEDIUM	
56 Score < 70.99	DEVELOPING	50 - < 59	LOW	
Score <55.99	UNSATISFACTORY	< 50	VERY LOW	

In addition to the value for course learning achievement (CLO), it can also be analyzed the value of each ILO supported by this course. A description of the ILO's achievements from this course is presented in Table 5, and Figure 2. presents the percentage of students with an achievement score above 85.9.

Several things can be concluded from the support of this course to the Learning Outcomes of the Study Program (ILO):

- All ILO's are in the *Satisfactory achievement category*, namely: approx. 85 % of students have an achievement score above 85.9 for all ILO.

	ILO1	ILO2	ILO3	ILO4
Weighted average	85.10	85.10	85.10	85.60
Achievement Category	Satisfactory	Satisfactory	Satisfactory	Satisfactory
The number of students with ILO>71	41	41	41	42
Percentage	95.35	95.35	95.35	97.67
Category	HIGH	HIGH	HIGH	HIGH

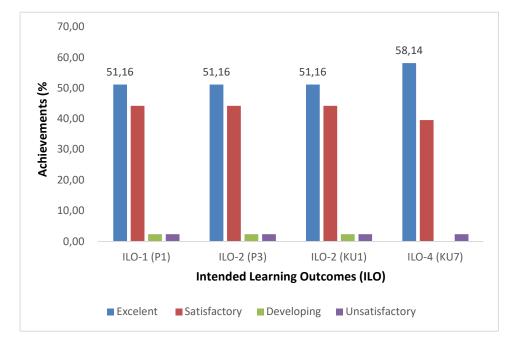


Figure 2. Graph of achievement index in each ILO supported by the course of Soil Chemistry

Constraint

- Students' ability/understanding of course material is still not evenly distributed among all students
- The reluctance of students to ask questions, discuss, and provide suggestions for lecturers and fellow students is felt to be lacking. It seems that students are not optimal for this.

Value Distribution

The final score is obtained from the weighting of all assessment components as presented in column three in Table 2 and the conversion standard of assessment is presented in Table 6. While descriptive statistics of the final score are presented in Table 7

Table 6. Benchmarks for Scoring

No.	Range of Score	Grade	Description
1	86.00 - 100.00	А	Excellent
2	71.00 - 85.99	В	good
3	56.00 - 70.99	С	Fair
4	40.00 - 55.99	D	Bad
5	<40.00	E	Worst

Table 7 . Final Grade Descriptive Statistics

mean	84.77
median	86.23
Standard Deviation	8.55
Min	56.16
Max	94.91

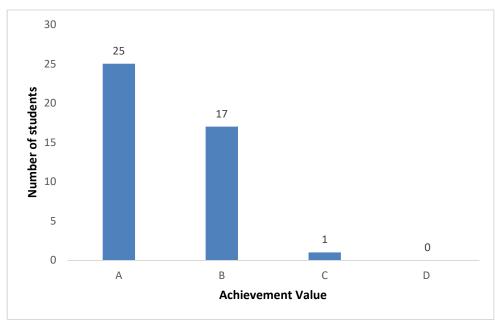


Figure 3. Distribution of final grades for Soil Chemistry

After being converted into letter values according to the assessment conversion standard (Table 6), the distribution of letter values can be seen in Figure 3. The figure shows that there are more than half students have grades above A, even the largest percentage is in grades A and B. There is one student who gets a C grade, because he often does not attend lectures and practicums and does not take quizzes.

Conclusion

With all the obstacles and basic abilities of students, the final score obtained still reflects that the strategies and learning methods can be well received by most students.

Repair Recommendations

- The need to encourage students to be more and more daring in express opinion
- Habituation of students to discuss and work in teams

Week	CLO	Sub-CLO	Subject	Learning methods and time	Assignment	Assessment	Weight (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	1. Be able to explain the scope of soil chemistry and aspects of solution	1.1. Explain the meaning and scope of soil chemistry	Definition and scope of soil chemistry	TM Lecture/Discussion (2x50") Practicum (per preparation) (2x60"	Looking for references and summarizing the meaning and scope of soil chemistry (3x60")	Accuracy in explaining the definition and scope of soil chemistry	
2	chemistry in relation to nutrient solutions in soil	1.2. Explain the important elements in soil and plants	Periodic List and important elements in soil and plants	TM Lecture/Discussion (2x50") Practicum: Practical Material Assistance (2x60")	Looking for references and summarizing about Hara and soil solution (3x60")	Accuracy in Describing important elements in soil and plants	
3		1.3. Explain the Chemistry of Soil Solutions and Soil Solutions	Soil Solution and Solution Chemistry	TM lecture/discussion (2x50") Practicum: Soil and Water Sampling (2x60")	Looking for references related to the Practicum Report (3x60")	Accuracy in Explaining the Chemistry of Soil Solutions and Soil Solutions	
4	2. Be able to explain about the definition and characteristics of soil colloids	2.1. Explaining the definition and characteristics of inorganic colloids	Inorganic colloids and their characteristics	TM Lecture/Discussion (2x50") Practicum: Soil and Material Preparation (2x60")	Looking for references related to the Practicum Report (3x60")	Accuracy in Explaining the Definition and characteristics of inorganic colloids.	
5		2.2. Explaining the definition and characteristics of organic colloids	Organic colloids and their characteristics	TM Lecture/Discussion (2x50") Practicum: Material A	Looking for references related to the Practicum Report (3x60")	Accuracy in Explaining the Definition and characteristics of organic colloids.	

Appendix 1

	1			(2x60")		
6	3. Be able to explain the principles of oxidation and reduction in oxidation-	3.1. Explain the basic principles of oxidation- reduction reactions, and determine oxidation- reduction reactions in soil	Basic Principles of Oxidation-Reduction Reactions, Oxidation- Reduction Reactions in Soil	TM	Looking for references related to the Practicum Report (3x60")	Accuracy in explaining the basic principles of oxidation-reduction reactions, and determining oxidation- reduction reactions
7	reduction reactions in soil	3.2. Explain Pyrite Oxidation and its impact on soil	Pyrite Oxidation and its impact on soil	TM Lecture/Discussion (2x50") Practicum: Material C (2x60")	Looking for references related to the Practicum Report (3x60")	Accuracy in Explaining Pyrite Oxidation and its impact on soil
8				TS (2x50") um: D . Material (2x60")		· · ·
9	4. Be able to explain the principle of acid-base in the aspect of acid- base reactions	4.1. Explain the basic principles of acid-base chemistry	Basic principles of acid-base chemistry	TM Lecture/Discussio n (2x50") Practicum: Material E (2x60")	Looking for references related to the Practicum Report (3x60")	Accuracy in explaining the basic principles of acid-base chemistry
10	of soil	4.2. Explaining the Acid- Base Reaction Aspects of Soil and its influence on the chemical characteristics of the soil	Aspects of Soil Acid- Base Reactions and their effects on soil chemical characteristics	TM Lecture/Discussio n (2x50") Practicum: Materials E and F (2x60")	Looking for references related to the Practicum Report (3x60")	Accuracy in Explaining Aspects of Soil Acid-Base Reactions and their effects on soil chemical characteristics
11	5. Be able to explain the basic principles of adsorption and ion exchange	5.1. Explain the basic principle of ion adsorption	The basic principle of ion adsorption	TM Lecture/Discussio n (2x50") Practicum: Materials E and G (2x60")	Looking for references related to the Practicum Report (3x60")	Accuracy in Explaining the Basic Principles of Ion Adsorption
12		5.2. Explain the basic principles of ion exchange	The basic principle of ion exchange	TM Lecture/Discussi on (2x50")	Looking for references related to the Practicum Report	Accuracy in explaining the basic

				Practicum: Materials E and	(3x60")	principles of ion exchange	
				H (2x60")			
13	6. Able to explain about metal and its interactions with soil components		Metals and the Formation of Complexes between metals and soil components	TM Lecture/Discussi on (2x50") Practicum: Final Report Assistance (2x60")	Looking for references related to the Practicum Report (3x60")	Accuracy in explaining the characteristics of metals, and the formation of complexes between soil components	
14	7. Be able to explain the properties and chemical reactions of specific soils	7.1. Explain the chemical reactions in mineral weathering and soil formation	Chemical reactions in mineral weathering and soil formation	TM Lecture/Discussio n (2x50") Practicum: Final Report (2x60")	Looking for references related to the Practicum Report (3x60")	Accuracy in Explaining Chemical Reactions in Mineral Weathering	
15		7.2. Describe the characteristics and chemical reactions of salt-affected soils.	Characteristics and Chemical Reactions in soil affected by salt.	TM Lecture/Discussio n (2x50") Practicum: Final Report (2x60")	Look for references and make a summary of Chemical processes and reactions Soil affected by salt (3x60")	Accuracy in explaining the characteristics and chemical reactions of soil affected by salt	
16			UA	AS (2x50")			
		Total percentage for th	-1 (30%) and Ev-2 (30%))		70		
			centage for Lab Practical		30		
					Grand Total		100

Appendix 2. List of Value Details

STUDY POGRAM : SOIL SCIENCE ACADEMIC YEAR : 2021/2022 (SEMESTER GANJIL) **COURSE NAME :** SOIL CHEMISTRY (3 SKS)

RUANG: R.KELAS A LECTURE: IR. H. MARSI, M.SC., PH.D. / DR. IR. AGUS HERMAWAN, M.T

SCHI	EDULE :	SELASA (11:10 - 12:50 WIB)					
NO ·	NIM	NAMA	PRACTIC UM (30%)	EV-1 (35%)	EV-2 (35%)	NILAI ANGKA	NILAI HURUF
1	05101182025001	HADINA FADHILAH	88,8	95,1	100,0	94,9	А
2	05101182025002	PUTRI RAHAYU	85,4	87,8	62,0	78,0	В
3	05101182025003	DILA ANDINI	90,8	93,4	100,0	94,9	А
4	05101182025005	JESIKA PUTRI KURNIANI	88,4	88,9	98,0	91,9	А
5	05101182025008	MEYLA FERLIANA	86,6	91,2	82,0	86,6	А
6	05101182025009	INE AMALIA PUTRI	89,0	84,4	96,0	89,8	А
7	05101182025010	NESSA REGITHA MAGHZARINI	85,8	94,4	100,0	93,8	А
8	05101182025011	SEFTA ADI SAPUTRA	89,6	92,6	100,0	94,3	А
9	05101182025012	SILVA AYUNITA	89,8	93,8	100,0	94,8	А
10	05101182025015	SEPTI ULAN DARI	82,0	85,6	60,0	75,6	В
11	05101182025016	LILI	87,8	88,0	84,0	86,5	А
12	05101281722018	HENDRA WIJAYA	61,5	57,8	50,0	56,2	С
13	05101282025019	SAFIRA ZAHRA APRIANTI	88,8	91,9	100,0	93,8	Α
14	05101282025020	FRANSISKA	88,8	89,2	74,0	83,8	В
15	05101282025021	RAHMAT APRIANSYAH	77,4	81,2	82,0	80,3	В
16	05101282025023	MUHAMAD YAZID	89,4	85,8	84,0	86,2	А
17	05101282025024	ERWIN VALENTIN	91,6	75,6	60,0	74,9	В
18	05101282025026	TRESIA NATASYAH	90,2	92,3	92,0	91,6	А
19	05101282025028	DWI AULIA HERNANDA	88,4	71,8	60,0	72,6	В
20	05101282025029	RAMDAN FIRMANSYAH	88,4	87,5	100,0	92,1	А

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PRACTICU M	EV-1	EV-2	Overall Achievement of CLO per student
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21	05101282025030	AAN NUGGROHO	87,4	77,7	80,0	81,4	В
22	05101282025032	RINDA LESTIANI	88,0	86,9	74,0	82,7	В
23	05101282025033	BAHENSKI SALMAIKA	92,6	91,6	100,0	94,8	Α
24	05101282025034	FADHLAN AL DHAFIN	89,6	85,8	100,0	91,9	Α
25	05101282025035	NABILA UL'YA WULANDARI	89,4	62,8	82,0	77,5	В
26	05101282025038	ANINDYA PRATISTA CAHYANI WAZMIR	88,2	84,8	100,0	91,1	Α
27	05101282025040	LILIK AGUSTINA	88,8	90,0	80,0	86,1	А
28	05101282025041	RAHMAT OKTADI AZ	89.0	76.8	66.0	76,7	В
29	05101282025042	FEBBY AYU AZWARY	90,4	88,7	86,0	88,3	A
30	05101282025043	FEBRIANSYAH	88,6	72,0	70,0	76,3	В
31	05101282025045	NOVA ANJLEYANI	91,4	84,7	92.0	89.2	A
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32	05101282025049	ALDI RIZKI FERNANDO	82,2	72,9	60,0	71,2 86,9	B
33	05101282025055	BUNGA LUTHFIYANI	90,0	87,3	84,0	80,9	Α
34	05101282025056	RUTH OCTORA CETRIN BR. SINAGA	88,6	88,0	62,0	79,1	В
35	05101382025057	NABILLA RIZKA HANNAN	88,6	84,4	100,0	91,1	Α
36	05101382025062	ADE DWIHERYANI	82,2	82,9	58,0	74,0	В
37	05101382025063	DANNY AJI PRAJOSA	92,0	86,8	100,0	93,0	Α
38	05101382025068	TIARA	90,8	81,5	76,0	82,4	В
39	05101382025069	BERLIANA FEBRINA	91,8	89,5	78,0	86,2	A
40	05101382025075	AMALIA PUTRI	94,0	92,6	94,0	93,5	Α
41	05101382025078	RIZKY NUGRAHA	87,8	86,9	84,0	86,2	Α
42	05101382025080	MUHAMMAD DANU PRAKOSO	87,0	78,4	74,0	79,4	В
43	05101382025082	M AKBAR RIZQULLAH	82,4	72,0	68,0	73,7	В

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AVERAGE	87,66	84,47	82,60	84,77	25	Achieved	41	33	25	30
					17	Not Achieved	2	10	18	13
					1	% Achieved	100,00	80,49	60,98	73,17
	% not achieved	4,88	24,39	43,90	31,71					

No	NIM	NAMA	PRACT ICUM (30%)	EV-1 (35%)	EV-2 (35%)	C	CLO 1	c	ELO 2	c	CLO 3	(CLO 4		CLO 5	C	CLO 6	(CLO 7		ment of LO
1	05101182025001	HADINA FADHILAH	88,8	95,1	100,0	91,9	Excelent	91,9	Excelent	91,9	Excelent	94,4	Excelent	94,4	Excelent	100, 0	Excelent	100, 0	Excelent	94,9	Excelent
2	05101182025002	PUTRI RAHAYU	85,4	87,8	62,0	86,6	Excelent	86,6	Excelent	86,6	Excelent	73,7	Satisfacto ry	73,7	Satisfacto ry	62,0	Satisfacto ry	62,0	Satisfactor y	75,9	Satisfact ory
3	05101182025003	DILA ANDINI	90,8	93,4	100,0	92,1	Excelent	92,1	Excelent	92,1	Excelent	95,4	Excelent	95,4	Excelent	100, 0	Excelent	100, 0	Excelent	95,3	Excelent
4	05101182025005	JESIKA PUTRI KURNIANI	88,4	88,9	98,0	88,7	Excelent	88,7	Excelent	88,7	Excelent	93,2	Excelent	93,2	Excelent	98,0	Excelent	98,0	Excelent	92,6	Excelent
5	05101182025008	MEYLA FERLIANA	86,6	91,2	82,0	88,9	Excelent	88,9	Excelent	88,9	Excelent	84,3	Satisfacto ry	84,3	Satisfacto ry	82,0	Satisfacto ry	82,0	Satisfactor y	85,6	Satisfact ory
6	05101182025009	INE AMALIA PUTRI	89,0	84,4	96,0	86,7	Excelent	86,7	Excelent	86,7	Excelent	92,5	Excelent	92,5	Excelent	96,0	Excelent	96,0	Excelent	91,0	Excelent
7	05101182025010	NESSA REGITHA MAGHZARINI	85,8	94,4	100,0	90,1	Excelent	90,1	Excelent	90,1	Excelent	92,9	Excelent	92,9	Excelent	100, 0	Excelent	100, 0	Excelent	93,7	Excelent
8	05101182025011	SEFTA ADI SAPUTRA	89,6	92,6	100,0	91,1	Excelent	91,1	Excelent	91,1	Excelent	94,8	Excelent	94,8	Excelent	100, 0	Excelent	100, 0	Excelent	94,7	Excelent
9	05101182025012	SILVA AYUNITA	89,8	93,8	100,0	91,8	Excelent	91,8	Excelent	91,8	Excelent	94,9	Excelent	94,9	Excelent	100, 0	Excelent	100, 0	Excelent	95,0	Excelent
10	05101182025015	SEPTI ULAN DARI	82,0	85,6	60,0	83,8	Satisfact ory	83,8	Satisfactor y	83,8	Satisfacto ry	71,0	Satisfacto ry	71,0	Satisfacto ry	60,0	Satisfacto ry	60,0	Satisfactor y	73,3	Satisfact ory
11	05101182025016	LILI	87,8	88,0	84,0	87,9	Excelent	87,9	Excelent	87,9	Excelent	85,9	Satisfacto ry	85,9	Satisfacto ry	84,0	Satisfacto ry	84,0	Satisfactor y	86,2	Excelent
12	05101281722018	HENDRA WIJAYA	61,5	60,0	50,0	60,8	Developi ng	60,8	Developin g	60,8	Developi ng	55,8	Unsatisfa ctory	55,8	Unsatisfa ctory	50,0	Unsatisfac tory	50,0	Unsatisfac tory	56,3	Unsatisf actory
13	05101282025019	SAFIRA ZAHRA APRIANTI	88,8	91,9	100,0	90,3	Excelent	90,3	Excelent	90,3	Excelent	94,4	Excelent	94,4	Excelent	100, 0	Excelent	100, 0	Excelent	94,3	Excelent
14	05101282025020	FRANSISKA	88,8	89,2	74,0	89,0	Excelent	89,0	Excelent	89,0	Excelent	81,4	Satisfacto ry	81,4	Satisfacto ry	74,0	Satisfacto ry	74,0	Satisfactor y	82,5	Satisfact ory
15	05101282025021	RAHMAT APRIANSYAH	77,4	81,2	82,0	79,3	Satisfact ory	79,3	Satisfactor y	79,3	Satisfacto ry	79,7	Satisfacto ry	79,7	Satisfacto ry	82,0	Satisfacto ry	82,0	Satisfactor y	80,2	Satisfact ory
16	05101282025023	MUHAMAD YAZID	89,4	85,8	84,0	87,6	Excelent	87,6	Excelent	87,6	Excelent	86,7	Excelent	86,7	Excelent	84,0	Satisfacto ry	84,0	Satisfactor V	86,3	Excelent
17	05101282025024	ERWIN VALENTIN	91,6	75,6	60,0	83,6	Satisfact ory	83,6	Satisfactor v	83,6	Satisfacto ry	75,8	Satisfacto ry	75,8	Satisfacto ry	60,0	Developin	60,0	Developin g	74,6	Satisfact ory
18	05101282025026	TRESIA NATASYAH	90.2	92,3	92.0	91,3	Excelent	91.3	Excelent	91.3	Excelent	91,1	Excelent	91.1	Excelent	92.0	Excelent	92.0	Excelent	91,4	Excelent
19	05101282025028	DWI AULIA HERNANDA	88,4	71,8	60,0	80,1	Satisfact ory	80,1	Satisfactor v	80,1	Satisfacto ry	74,2	Satisfacto ry	74,2	Satisfacto ry	60,0	Developin	60,0	Developin	72,7	Satisfact ory
20	05101282025028	RAMDAN FIRMANSYAH	88.4	87,5	100,0	87.9	Excelent	87.9	Excelent	87.9	Excelent	94.2	Excelent	94.2	Excelent	100,	Excelent	100,	Excelent	93.2	Excelent
20	05101282025030	AAN NUGGROHO	87,4	77,7	80,0	82,5	Satisfact ory	82,5	Satisfactor v	82,5	Satisfacto ry	83,7	Satisfacto ry	83,7	Satisfacto ry	80,0	Satisfacto ry	80,0	Satisfactor	82,1	Satisfact ory
21	05101282025030	RINDA LESTIANI	88.0	86.9	74,0	87,5	Excelent	87.5	Excelent	87.5	Excelent	81.0	Satisfacto	81.0	Satisfacto ry	74.0	Satisfacto	74.0	y Satisfactor V	81,8	Satisfact
22	05101282025032	BAHENSKI SALMAIKA	92.6	91,6	100.0	92,1	Excelent	92,1	Excelent	87,5 92.1	Excelent	96,3	Excelent	96.3	Excelent	74,0 100, 0	Excelent	100,	y Excelent	95.6	Excelent
23	05101282025033	FADHLAN AL DHAFIN	92,6 89,6	85,8	100,0	92,1 87,7	Excelent	87,7	Excelent	92,1 87.7	Excelent	96,5	Excelent	96,5	Excelent	100, 0	Excelent	100,	Excelent	93,0	Excelent
		NABILA UL'YA	ĺ.				Satisfact ory		Satisfactor	/ -	Satisfacto ry		Satisfacto	. ,.	Satisfacto		Satisfacto		Satisfactor	, i i i i i i i i i i i i i i i i i i i	Satisfact
25	05101282025035	WULANDARI ANINDYA PRATISTA	89,4	62,8	82,0	76,1	ory	76,1	У	76,1	ıy	85,7	ry	85,7	ry	82,0	ry	82,0	у	80,5	ory
26	05101282025038	CAHYANI WAZMIR	88.2	84,8	100.0	86,5	Excelent	86,5	Excelent	86,5	Excelent	94,1	Excelent	94.1	Excelent	100,	Excelent	100,	Excelent	92.5	Excelent
20	05101282025038	LILIK AGUSTINA	88,8	<u>84,8</u> 90,0	80,0	89,4	Excelent	89,4	Excelent	80,5 89,4	Excelent	84,4	Satisfacto ry	84,4	Satisfacto ry	80,0	Satisfacto ry	80,0	Satisfactor	85,3	Satisfact ory

		RAHMAT OKTADI					Satisfact		Satisfactor		Satisfacto		Satisfacto		Satisfacto		Developin		Developin		Satisfact
28	05101282025041	AZ	89,0	76,8	66,0	82,9	ory	82,9	у	82,9	ry	77,5	ry	77,5	ry	66,0	g	66,0	g	76,5	ory
29	05101282025042	FEBBY AYU AZWARY	90.4	88.7	86,0	89,6	Excelent	89,6	Excelent	89.6	Excelent	88.2	Excelent	88.2	Excelent	86.0	Excelent	86.0	Excelent	88.2	Excelent
2)	05101202025042	AL WART	70,4	00,7	00,0	07,0	Satisfact	07,0	Satisfactor	07,0	Satisfacto	00,2	Satisfacto	00,2	Satisfacto	00,0	Satisfacto	00,0	Satisfactor	00,2	Satisfact
30	05101282025043	FEBRIANSYAH	88,6	72,0	70,0	80,3	ory	80,3	У	80,3	ry	79,3	ry	79,3	ry	70,0	ry	70,0	у	77,1	ory
31	05101282025047	NOVA ANJLEYANI	91,4	84,7	92,0	88,0	Excelent	88,0	Excelent	88,0	Excelent	91,7	Excelent	91,7	Excelent	92,0	Excelent	92,0	Excelent	90,2	Excelent
22	05101282025040	ALDI RIZKI	82.2	72.9	60.0	77 5	Satisfact orv	77.5	Satisfactor	77.5	Satisfacto	71.1	Developi	71.1	Developi	60,0	Developin	60,0	Satisfactor	70,7	Develop
32	05101282025049	FERNANDO BUNGA	82,2	72,9	60,0	77,5	,	//,5	y E l í	//,5	ry E l í	/1,1	ng	/1,1	ng	60,0	g Satisfacto	60,0	y Satisfactor	/0,/	ing
33	05101282025055	LUTHFIYANI	90,0	87,3	84,0	88,6	Excelent	88,6	Excelent	88,6	Excelent	87,0	Excelent	87,0	Excelent	84,0	ry	84,0	у	86,8	Excelent
		RUTH OCTORA CETRIN BR.					Excelent		Excelent		Excelent		Satisfacto		Satisfacto		Developin		Developin		Satisfact
34	05101282025056	SINAGA	88,6	88,0	62,0	88,3		88,3		88,3		75,3	ry	75,3	ry	62,0	g	62,0	g	77,1	ory
35	05101382025057	NABILLA RIZKA HANNAN	88,6	84,4	100,0	86,5	Excelent	86,5	Excelent	86,5	Excelent	94,3	Excelent	94,3	Excelent	100, 0	Excelent	100, 0	Excelent	92,6	Excelent
26	05101202025052				50.0	00 (Satisfact	00.0	Satisfactor	00.6	Satisfacto	50.1	Developi	70.1	Developi	50.0	Developin	50.0	Satisfactor	72.0	Satisfact
36	05101382025062	ADE DWIHERYANI DANNY AJI	82,2	82,9	58,0	82,6	ory	82,6	У	82,6	ry	70,1	ng	70,1	ng	58,0 100,	g	58,0 100,	У	72,0	ory
37	05101382025063	PRAJOSA	92,0	86,8	100,0	89,4	Excelent	89,4	Excelent	89,4	Excelent	96,0	Excelent	96,0	Excelent	0	Excelent	0	Excelent	94,3	Excelent
38	05101382025068	TIARA	90,8	81,5	76,0	86,2	Excelent	86,2	Excelent	86,2	Excelent	83,4	Satisfacto ry	83,4	Satisfacto ry	76,0	Satisfacto ry	76,0	Satisfactor v	82,5	Satisfact ory
20	05101202025050	BERLIANA	01.0	00.5	70.0	00.7	Excelent	00.7	Excelent	00.7	Excelent	04.0	Satisfacto		Satisfacto	-	Satisfacto	70.0	Satisfactor	05.4	Satisfact
39	05101382025069	FEBRINA	91,8	89,5	78,0	90,7		90,7		90,7		84,9	ry	84,9	ry	78,0	ry	78,0	У	85,4	ory
40	05101382025075	AMALIA PUTRI	94,0	92,6	94,0	93,3	Excelent	93,3	Excelent	93,3	Excelent	94,0	Excelent	94,0	Excelent	94,0	Excelent	94,0	Excelent	93,7	Excelent
41	05101382025078	RIZKY NUGRAHA	87,8	86,9	84,0	87,4	Excelent	87,4	Excelent	87,4	Excelent	85,9	Satisfacto ry	85,9	Satisfacto ry	84,0	Satisfacto ry	84,0	Satisfactor y	86,0	Excelent
12	05101202025000	MUHAMMAD	07.0	7 0.4	74.0		Satisfact		Satisfactor		Satisfacto	00.5	Satisfacto	00.5	Satisfacto	74.0	Satisfacto	74.0	Satisfactor	70.6	Satisfact
42	05101382025080	DANU PRAKOSO M AKBAR	87,0	78,4	74,0	82,7	ory Satisfact	82,7	y Satisfactor	82,7	ry Satisfacto	80,5	ry Satisfacto	80,5	ry Satisfacto	74,0	ry Developin	74,0	y Developin	79,6	ory Satisfact
43	05101382025082	RIZQULLAH	82,4	72,0	68,0	77,2	ory	77,2	y	77,2	ry	75,2	ry	75,2	ry	68,0	g	68,0	g	74,0	ory
					Rerata	86,1		86,1		86,1		85,1		85,1		82.6		82.6		84.8	
					Kelata	00,1		00,1		00,1		os,1 Sati		,		- /-		-)-		04,0	
						Exce		Excel		Exce		sfac		Sati sfac		Satis facto		Satis facto		Satisfa	
						lent		ent		lent		tor		tory		ry		ry		ctory	
							%		%		%	y	%		%		%		%		%
					Excele		60.0		co -			••			16-	10		10			
					nt Satisfa	30	69,8	30	69,8	30	69,8	20	46,5	20	46,5	18	41,9	18	41,9	22	51,2
					ctory Devel	12	27,9	12	27,9	12	27,9	20	46,5	20	46,5	17	39,5	19	44,2	19	44,2
					oping	1	2,3	1	2,3	1	2,3	2	4,7	2	4,7	7	16,3	5	11,6	1	2,3
					Unsati sfactor																
					y	0	0,0	0	0,0	0	0,0	1	2,3	1	2,3	1	2,3	1	2,3	1	2,3

NO		N 4 N 4 4				Intended Learning	g Outcomes ((ILO)			Average	Achievment
NO.	NIM	NAMA	I	LO1/P-1	I	LO2/P-3	ILO	03/ KU-1	IL	04/KU-7	CLO to PLO	CLO to PLO
1	05101182025001	HADINA FADHILAH	95,7	Excelent	95,7	Excelent	95,7	Excelent	93,2	Excelent	95,1	Excelent
2	05101182025002	PUTRI RAHAYU	75,5	Satisfactory	75,5	Satisfactory	75,5	Satisfactory	80,1	Satisfactory	76,7	Satisfactory
3	05101182025003	DILA ANDINI	96,0	Excelent	96,0	Excelent	96,0	Excelent	93,7	Excelent	95,5	Excelent
4	05101182025005	JESIKA PUTRI KURNIANI	93,4	Excelent	93,4	Excelent	93,4	Excelent	90,9	Excelent	92,8	Excelent
5	05101182025008	MEYLA FERLIANA	85,9	Satisfactory	85,9	Satisfactory	85,9	Satisfactory	86,6	Excelent	86,1	Excelent
6	05101182025009	INE AMALIA PUTRI	91,7	Excelent	91,7	Excelent	91,7	Excelent	89,6	Excelent	91,2	Excelent
7	05101182025010	NESSA REGITHA MAGHZARINI	94,6	Excelent	94,6	Excelent	94,6	Excelent	91,5	Excelent	93,8	Excelent
8	05101182025011	SEFTA ADI SAPUTRA	95,5	Excelent	95,5	Excelent	95,5	Excelent	93,0	Excelent	94,8	Excelent
9	05101182025012	SILVA AYUNITA	95,8	Excelent	95,8	Excelent	95,8	Excelent	93,3	Excelent	95,2	Excelent
10	05101182025015	SEPTI ULAN DARI	73,0	Satisfactory	73,0	Satisfactory	73,0	Satisfactory	77,4	Satisfactory	74,1	Satisfactory
11	05101182025016	LILI	86,5	Excelent	86,5	Excelent	86,5	Excelent	86,9	Excelent	86,6	Excelent
12	05101281722018	HENDRA WIJAYA	56,2	Unsatisfactory	56,2	Unsatisfactory	56,2	Unsatisfactory	58,3	Unsatisfactory	56,7	Unsatisfactory
13	05101282025019	SAFIRA ZAHRA APRIANTI	95,0	Excelent	95,0	Excelent	95,0	Excelent	92,4	Excelent	94,4	Excelent
14	05101282025020	FRANSISKA	82,5	Satisfactory	82,5	Satisfactory	82,5	Satisfactory	85,2	Satisfactory	83,2	Satisfactory
15	05101282025021	RAHMAT APRIANSYAH	80,7	Satisfactory	80,7	Satisfactory	80,7	Satisfactory	79,5	Satisfactory	80,4	Satisfactory
16	05101282025023	MUHAMAD YAZID	86,6	Excelent	86,6	Excelent	86,6	Excelent	87,1	Excelent	86,7	Excelent
17	05101282025024	ERWIN VALENTIN	74,2	Satisfactory	74,2	Satisfactory	74,2	Satisfactory	79,7	Satisfactory	75,5	Satisfactory
18	05101282025026	TRESIA NATASYAH	91,9	Excelent	91,9	Excelent	91,9	Excelent	91,2	Excelent	91,7	Excelent
19	05101282025028	DWI AULIA HERNANDA	72,3	Satisfactory	72,3	Satisfactory	72,3	Satisfactory	77,1	Satisfactory	73,5	Satisfactory
20	05101282025029	RAMDAN FIRMANSYAH	94,0	Excelent	94,0	Excelent	94,0	Excelent	91,1	Excelent	93,3	Excelent
21	05101282025030	AAN NUGGROHO	82,4	Satisfactory	82,4	Satisfactory	82,4	Satisfactory	83,1	Satisfactory	82,6	Satisfactory
22	05101282025032	RINDA LESTIANI	81,8	Satisfactory	81,8	Satisfactory	81,8	Satisfactory	84,2	Satisfactory	82,4	Satisfactory
23	05101282025033	BAHENSKI SALMAIKA	96,3	Excelent	96,3	Excelent	96,3	Excelent	94,2	Excelent	95,7	Excelent
24	05101282025034	FADHLAN AL DHAFIN	94,0	Excelent	94,0	Excelent	94,0	Excelent	91,3	Excelent	93,3	Excelent

25	05101282025035	NABILA UL'YA WULANDARI	80,9	Satisfactory	80,9	Satisfactory	80,9	Satisfactory	80,9	Satisfactory	80,9	Satisfactory
26	05101282025038	ANINDYA P CAHYANI WAZMIR	93,4	Excelent	93,4	Excelent	93,4	Excelent	90,3	Excelent	92,6	Excelent
27	05101282025040	LILIK AGUSTINA	85,4	Satisfactory	85,4	Satisfactory	85,4	Satisfactory	86,9	Excelent	85,8	Satisfactory
28	05101282025041	RAHMAT OKTADI AZ	76,3	Satisfactory	76,3	Satisfactory	76,3	Satisfactory	80,2	Satisfactory	77,3	Satisfactory
29	05101282025042	FEBBY AYU AZWARY	88,5	Excelent	88,5	Excelent	88,5	Excelent	88,9	Excelent	88,6	Excelent
30	05101282025043	FEBRIANSYAH	77,0	Satisfactory	77,0	Satisfactory	77,0	Satisfactory	79,8	Satisfactory	77,7	Satisfactory
31	05101282025047	NOVA ANJLEYANI	90,7	Excelent	90,7	Excelent	90,7	Excelent	89,9	Excelent	90,5	Excelent
32	05101282025049	ALDI RIZKI FERNANDO	70,4	Developing	70,4	Developing	70,4	Developing	74,3	Satisfactory	71,4	Satisfactory
33	05101282025055	BUNGA LUTHFIYANI	87,1	Excelent	87,1	Excelent	87,1	Excelent	87,8	Excelent	87,3	Excelent
34	05101282025056	RUTH O CETRIN BR. SINAGA	76,7	Satisfactory	76,7	Satisfactory	76,7	Satisfactory	81,8	Satisfactory	77,9	Satisfactory
35	05101382025057	NABILLA RIZKA HANNAN	93,4	Excelent	93,4	Excelent	93,4	Excelent	90,4	Excelent	92,7	Excelent
36	05101382025062	ADE DWIHERYANI	71,6	Satisfactory	71,6	Satisfactory	71,6	Satisfactory	76,3	Satisfactory	72,8	Satisfactory
37	05101382025063	DANNY AJI PRAJOSA	95,0	Excelent	95,0	Excelent	95,0	Excelent	92,7	Excelent	94,5	Excelent
38	05101382025068	TIARA	82,5	Satisfactory	82,5	Satisfactory	82,5	Satisfactory	84,8	Satisfactory	83,1	Satisfactory
39	05101382025069	BERLIANA FEBRINA	85,4	Satisfactory	85,4	Satisfactory	85,4	Satisfactory	87,8	Excelent	86,0	Excelent
40	05101382025075	AMALIA PUTRI	94,2	Excelent	94,2	Excelent	94,2	Excelent	93,6	Excelent	94,0	Excelent
41	05101382025078	RIZKY NUGRAHA	86,3	Excelent	86,3	Excelent	86,3	Excelent	86,6	Excelent	86,4	Excelent
42	05101382025080	MUHAMMAD DANU PRAKOSO	79,6	Satisfactory	79,6	Satisfactory	79,6	Satisfactory	81,6	Satisfactory	80,1	Satisfactory
43	05101382025082	M AKBAR RIZQULLAH	74,0	Satisfactory	74,0	Satisfactory	74,0	Satisfactory	76,2	Satisfactory	74,6	Satisfactory
			85,1		85,1		85,1		85,6		85,2	
			Satisfactor	·y	Satisfactory	y	Satisfactory		Satisfactory	/	Satis	factory
		Γ		%		%		%		%		%
		Excelent	22	51,16	22	51,2	22	51,2	25	58,1	24	55,8
		Satisfactory	19	44,2	19	44,2	19	44,2	17	39,5	18	41,9
		Developing	1	2,3	1	2,3	1	2,3	0	0,0	0	0,0
		Unsatisfactory	1	2,3	1	2,3	1	2,3	1	2,3	1	2,3
				95,35		95,35		95,35		97,67		