



S1 Ekonomi Unesa



RESOURCES ECONOMICS

TEAM:

Dr. Lucky Rachmawati S.E., M.Si. Wenny Restikasari, S.E., M.SE

Undergraduate Program in Economics Faculty of Economic and Business Universitas Negeri Surabaya

1. COURSE IDENTITY AND DESCRIPTION

Module name	: NATURAL RESOURCE ECONOMICS						
Module level	: Bachelor Degree/ Undergraduate Program						
Course Code	: 8722003119						
Semester / term	: 3 rd /16 weeks						
Module Coordinator	: Dr. Lucky Rachmawati, S.E., M.Si.						
Lecturer(s)	: Dr. Lucky Rachmawati, S.E., M.Si. Wenny Restikasari, S.E.,M.SE						
Languange	: Indonesia and English						
Classification within the curriculum	: Compulsory						
Teaching format/ class	: 3 Credits x 170/60 = 8 hours and 30 per week during semester minutes/ week						
Workload	: Contact hours 50/170 x 28,55 x (3 Credits x 1.59) = 40,05 hours/ semester						
	Practice Lecture 28,55 x (3 Credits x 1.59) = 136,18 hours/Semester						
	Structured Assignment $60/170 \times 28,55 \times (3 \text{ Cr'edits } \times 1.59) = 48,06 \text{ hours/ semester}$						
Course Credits	: 3						
Requirements	1-						
Learning Goals/Competencies	 Develop logical, critical, systematic, and creative thinking in performing specific work in their field of expertise and in accordance with the work competency standards of the field concerned Continuous self-development and collaboration Able to analyse economic theoretical concepts comprehensively Able to communicate effectively both orally and in writing in the field of economics 						
Contents	: The relationship between Economics and natural resources for the future, Allocation of the use of "renewable" and "non-renewable" natural resources, Understanding of recyclable, replaceable, reproducible, storable and common property, Analysis of natural resource markets, the role of energy, Forest management, Water Resources Systems, Sustainable development, and Natural resource policy in Indonesia.						
Attribute of soft skill	: Soft skills needed include critical thinking, problem-solving, communication, attention to detail, adaptability, and the ability to analyse and synthesise complex information from diverse sources effectively.						
Study / Exam Achievement	: Students are considered competent and pass if they receive the final grade at least C. Conversion of the 0-100 scale to 0-4 scale and the letters are arranged as follows:						
	Letter Grade Scale Score Interval						
	A $4,00 \mid 85 \le A < 100$						
	A- $3,75 \ 80 \le A < 85$						
	$ B + 3,50 75 \le B + < 80$						

	В	3,00	70 ≤ B < 75	
	B-	2,75	65 ≤ B- < 70	
	C+	2,50	60 ≤ C+ < 65	
	С	2,00	55 ≤ C< 60	
	D	2,00	40 ≤ D < 55	
	E	0	$0 \le E < 40$	
Form of Media	: Slides, Worksheet			
References	Collinns Colleg 2. Howe, Charles, John Willey & S 3. Sukanto R & Di Yogyakarta.	e Publishers 1979, "Natu Sons, New Y Ibyo, P, 1985	ıral Resource Economic York. 5, "Pengantar Ekonomi	al Resource Economics". Haper cs: Issues, Analysis and Policy", Sumberdaya Alam", BPFE, , PAU-UGM, Yogyakarta.

2. SEMESTER LESSON PLAN

UNESA Universitas Negeri Surabaya		UNIVERSITAS NEGERI SURABAYA, FACULTY OF ECONOMICS AND BUSINESS SEMESTER LEARNING PLAN								
			SEMEST	TER LEAR	NING PLAN					
	COURSE		CODE	(Course Category	W	eigth (sks)	SEMESTER	Date
Ekonomi S	umber Daya Alar	m	8722003119	Economics	T = 3	P = 0	ECTS =4.77	6	10 Januari 2019	
ОТО	OTORISATION				Coordinate	or RMK	(Coordinator	Study Program
			Dr. Lucky Rachmawati S.I	E., M.Si.	Dr. Lucky Rachma	wati S.I	E., M.S	i.	Hendry Cah	yono S.E., M.E.
Learning Outcomes PLO-STUDY PROGRAMME charged to COURSE							ı			
	CPL 3 CPL 4 CPL 5 CPL 7 Course Lear	Develop logical, critical, systematic, and creative thinking in performing specific work in their field of expertise and in accordance with the work competency standards of the field concerned Continuous self-development and collaboration Able to analyse economic theoretical concepts comprehensively Able to communicate effectively both orally and in writing in the field of economics								
	CLO1	Understandi	ng of the relationship betwee	n Economi	ics and natural resources fo	or the fu	iture.			
	CLO2		ng of the allocation of "renev							
	CLO3	Understandi	ng of recyclable, replaceable	, reproduci	ble, storable and common	propert	y natur	al resour	ces.	
	CLO4	resource pol	ural resource markets, the reicies in Indonesia.	ole of ener	gy, forest management, w	ater res	sources	systems	, sustainable devel	opment, and natural
	End capabili	•	ing stage (Sub-CLO)							
	Sub-CLO1		ribe the relationship between			or the f	uture			
	Sub-CLO2		ain about the concept of Stoc	k natural r	esources					
	Sub-CLO3		yse benefit cost							
	Sub-CLO4		erstand the allocation of the u							
	Sub-CLO5	Able to unde	erstand about recyclable, repl	aceable, re	producible, storable and co	ommon	proper	ty natura	l resources.	

Lecture Course Week		management, v Main: 1. Tietenber 2. Howe, Ch 3. Sukanto R 4. Sukanto R Supporters: Geach learning te PMK)	g, Tom, 199 arles, 1979, & Dibyo, P teksohadipi	Posternia (Property of State o	nmental ai Resource E engantar E "Ekonomi	ducible, sto	rable and oment, and esource E ssues, An aberdaya U-UGM, Y	common pd natural re Economics' alysis and Alam", BPF ogyakarta	Esource policesource policesource polices. The Haper Copolicy, John Estarning Metudent Associates.	dicies in Indicies in Willey & Indicies in Willey & Indicies in Willey & Indicies in Indicata in Indicata in Indicies in Indicata in Indic	rce market onesia. ege Publish Sons, Nev	ners.		,
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Library Lecture	er	management, v Main: 1. Tietenber 2. Howe, Chi 3. Sukanto R 4. Sukanto R	g, Tom, 199 arles, 1979,	96. "Enviro , "Natural I	nmental ai Resource E	oducible, storable developend Natural Riconomics : I	rable and oment, and esource E ssues, An aberdaya	common pd natural re Economics' alysis and Alam", BPF	oroperty, na esource poli ". Haper Co Policy", Joh	ttural resou icies in Ind Illinns Colle in Willey &	rce market onesia. ege Publish	t analysis, the		
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		management, v Main: 1. Tietenber 2. Howe, Cha	water resou g, Tom, 199 arles, 1979,	rces systen 96. "Enviro , "Natural I	ns, sustaina nmental ai Resource E	oducible, storable developed nd Natural R	rable and oment, and esource E ssues, An	common pd natural re Economics'	oroperty, na esource poli ". Haper Co Policy", Joh	ttural resou icies in Ind Illinns Colle in Willey &	rce market onesia. ege Publish	t analysis, the		
		management, v Main: 1. Tietenber	water resou g, Tom, 199	rces system 96. "Enviro	ns, sustaina nmental ai	oducible, storable develop nd Natural R	rable and oment, and esource E	common pd natural re	esource polices. ". Haper Co	tural resou icies in Ind	rce market onesia. ege Publish	t analysis, the		
		management,				ducible, sto	rable and	common p	roperty, na	tural resou	rce market			,
Materia	als					ducible, sto	rable and	common p	roperty, na	tural resou	rce market			
			ding of recyclable, replaceable, reproducible, storable and common property, natural resource market analysis, the role of energy, forest ent, water resources systems, sustainable development, and natural resource policies in Indonesia.											,
Study N	Material: Learning	The relationsh	1	economics	and natur	al resources	for the fu	itura alloca	otion of the	use of "mo	1.1.11 .		11 9 , 1	
course	escription of the	This course ex	piains the t	sauon /	anocation	oi natural fe	esources t	mat suppor	economic	growin wi	mout dam	aging the ei	iivironment.	
Duinf de	accuintion of the	CLO4	nloine the r	itilisation /	allogation	of notural re	acourace t	V	V t aconomia	V growth wi	thout dom	V aging the or	V	
		CLO3					V	.,	.,	.,	.,	.,		
		CLO2				V								
		CLO1	V	V	V									
			Sub- CLO1	CLO2	CLO3	CLO4	CLO5	CLO6	CLO7	CLO8	CLO9	CLO10	CLO11	
			C. I	Sub-	Sub-	Sub-	Sub-	Sub-	Sub-	Sub-	Sub-	Sub-	Sub-	
		Corelation CPN	MK to Sub-0	СРМК										
		Sub-CLO11			and analyse	e Water Rese	ources Po	licy in Inde	onesia					
		Sub-CLO10				e Sustainable								
		Sub-CLO9				e Water Reso		stem						
		Sub-CLO8				e forest man								
		Sub-CLO7			and analyza	e the role of	anaran							

Sub-CLO6

Able to analyse the natural resources market

1	Able to elaborate on the relationship between Economics and Natural Resources for the future	1. Able to identify the relationship between humans and the environmen t 2. Able to explain the environmen t as an asset 3. Able to identify asset valuation 4. Able to explain regulations and policies 5. Able to identify problems and conclusions	Criteria Scoring guidelines Form: -Assignment - Participatory Activity	-	Reading literature Learning Method: Online	1. Human relationship with the environment 2. Environment as an asset 3. Valuation of assets 4. Regulations and policies 5. Problems and conclusions
2	Able to explain about the concept of Stock natural resources	 Able to identify Basic Natural Capital Able to explain SDA Stock Able to identify Motivation for reserves 	Criteria: Scoring guidelines Form: - Assignment - Participatory Activities	l	Form learning: - Reading literature Learning method: Online	 Basic natural capital Natural resource stock Motivation for reserves Interpretation of reserve

3	Able to analyse Benefit Costs	4. Able to explain the Interpretation of Reserve Utilisation Ratio Able to identify and	Criteria	-	Form of Learning:	utilisation ratio 1. Benefit-cost
		explain benefit cost analysis Able to identify benefit estimation issues Able to analyse cost estimation approach Able to analyse risk treatment Able to analyse impact Able to analyse examples of impact analysis Able to discuss	Assessment guidelines Form - Assignment Participatory Activity		- Reading literature Learning Method: Online	analysis 2. Benefit estimation issues 3. Cost estimation appíoach 4. I reatment of fisk 5. Impact analysis 6. Examples of impact analyses 7. Discussion and conclusion
4	Able to understand the allocation of the use of "renewable" and "non-renewable" natural resources	 Able to identify the types of renewable R and non-renewable R. Able to explain efficient allocation Able to analyse market allocation Able to explain Fuel price control Able to explain cartel problem Able to explain Conservation and 	Criteria Scoring guidelines Form: - Assignment - Participatory Activity	-	Form Pembelajaran:	 íenewable R and non-íenewable R Efficient allocation Maíket allocation Fuel píice contíol Caítel píoblem Conseívation and depletion and management Example and conclusion

		depletion and management 7. Able to identify examples and conclusions				
5	Able to understand about natural resources that are recyclable, replaceable, reproducible, storable and common property.	 Able to analyse "Recyclable R" and "íeplaceable" allocation efficiency Able to identify stíategies and píoblems Able to analyse Waste and damage Able to analyse Wateí potential limitation 	Criteria Scoring guidelines Form: - Assignment Participatory Activity	-	Form of Learning: - Reading literature Learning Method: Online	 Efficiency of "Recyclable R" and "íeplaceable" allocation Stíategies and píoblems Waste and damage Wateí potential limitations
6	Able to analyse the natural resources market	 Able to analyse global scaícity Able to analyse policies in agíicultuíe Able to explain foíest management Able to analyse Examples and discussion 	Criteria Scoring guidelines Form: - Assignment - Participatory Activity	-	Form of Learning: - Reading literature Learning Method: Online	Global scaícity Policies in agíicultuíe Foíest management Examples and discussion
7	Able to analyse the natural resources market	Able to analyse efficient allocation Able to explain fishe(ies tenuíe (ights)	Criteria Scoring guidelines Form: - Assignment Participatory Activity	-	Form of Learning: - Reading literature Learning Method: Online	 Efficient allocation Fisheíies tenuíe íights

8	MIDDLE TEST		Criteria: Scoring guidelines Form: Exam Paper				20
9	Able to analyse the natural resources market	 Able to explain Demand and Supply of Natural Resources: Non Renewable Able to analyse Demand and Supply of Natural Resources: Renewable 	Criteria Scoring guidelines Form: - Assignment - Participatory Activity	-	Form of Learning: - Reading literature Learning Method: Online	 Demand and Supply of Natuial Resouices: Non Renewable Demand and Supply of Natuial Resouices: Renewable 	
10	Able to understand and analyse the role of energy	1. Able to analyse the íole of eneígy in Indonesia 2. Able to identify foíeign exchange eaínings 3. Able to explain eneígy contíibution 4. Able to explain Eneígy maíketing 5. Able to explain Employment oppoítunities in the eneígy sectoí	Criteria Scoring guidelines Form: - Assignment - Participatory Activity		Form of Learning: - Reading literature Learning Method: Online	 I'he íole of eneígy in Indonesia Foíeign exchange eaínings Eneígy contíibution Eneígy maíketing Employment oppoítunities in the eneígy sectoí 	
11	Able to understand and analyse the role of energy	Able to analyse eneigy demand model	Criteria Scoring guidelines	-	Form of Learning: - Reading literature Learning Method:	 Eneígy demand model Eneígy supply model 	

		 Able to analyse the eneigy supply model Able to analyse Eneigy piice deteimination Able to analyse Eneigy supply elasticity Able to explain the iole of technology and quotas 	Form: - Assignment - Participatory Activity		Online	3. Eneígy píicing 4. Eneígy supply elasticity 5. Role of technology and quotas
12	Able to understand and analyse huta managementn	1. Able to explain the role of forests in the economy 2. Able to explain the use of forest resources 3. Able to explain Optimum Exploitation Policy 4. Able to analyse Optimum Rotation Sensitivity Analysis 5. Able to analyse Forest Management Concept	Criteria Scoring guidelines Form: - Assignment Participatory Activity	-	Form of Learning: - Reading literature Learning Method: Online	 I'he íole of foíests in the economy Use of Foíest Resouíces Optimum exploitation policy Optimum Rotation Sensitivity Analysis Foíest Management Concept
13	Able to understand and analyse Water Resources System	Able to explain Water Resource Characteristics and Demand	Criteria Scoring guidelines	-	Form of Learning: - Reading literature Learning Method: Online	Chaíacteíistics of Wateí Resouíces and Demand

		2	Abla to avalain	Form:			2.	Economic
		2.	Able to explain the Economic	Form:			۷.	Aspects of Watei
				- Assignment				Resouices
			Aspects of Water	- Participatory			3.	
		_	Resources	Activity			3.	Wateí Quality
		3.	Able to analyse					Management
			Water Quality				4.	Minimum Cost of
			Management					Wateí Standaíd
		4.	Able to analyse					
			Minimum Cost of					
			Water Standard					
14	Able to understand and analyse	1.	Able to analyse	Criteria	-	Form of Learning:	1.	Sustainable
	sustainable development		Sustainable	Scoring guidelines		- Reading literature		gíowth (Maíket
			gíowth (Maíket					allocation,
			allocation,	Form:		Learning Method:		efficiency, tíade
			efficiency,	- Assignment		Online		and
			tíade and	Participatory				enviíonment)
			enviíonment)	Activity			2.	Vaíiety of
		2.	Able to identify	•				choices
			vaíious options					(agíicultuíe,
			(agíicultuíe,					eneígy, final
			eneígy, final					píoducts)
			píoducts) 3.					
15	Able to understand and analyse	1.	Able to explain	Criteria	-	Form of Learning:	1.	Natuíal
	Natural Resources Policy in		natural	Scoring guidelines		- Reading literature		íesouíces policy
	Indonesia		resources policy				2.	Review of cíitical
		2.	Able to analyse	Form:		Learning Method:		factois of natuial
			the Review of	- Assignment		Online		íesouíces in the
			critical factors of	Participatory				futuíe
			natural	Activity			3.	Maíket foíces
			resources in the	,			4.	Goveínment
			future					Institutions
		3.	Able to analyse				5.	Basic guidelines
			Market Power					foí íesponsible
		4.						natuíal íesouíce
			Government					policy.
			Institutions					
		5.	Able to explain					
]	the Guidelines					
			are duidelines					

		for responsible natural resources policy.			
16	FINAL TEST		Criteria: Scoring guidelines		30
			Form: Exam Paper		

3. PLO dan CLO Mapping

Program Learning Outcomes (PLO) Undergraduate Program in Economics are as follows

LO	ODE
able to demonstrate religious values, nationality and national culture, and academic ethics in carrying out their duties	LO -1
Demonstrate resilient, collaborative, adaptive, innovative, inclusive, lifelong learning, and entrepreneurial character.	LO-2
Develop logical, critical, systematic, and creative thinking in performing specific work in their field of expertise and in accordance with the work competency standards of the field concerned.	LO-3
Continuous self-development and collaboration	LO-4
able to analyse economic theoretical concepts comprehensively	LO-5
capable of analysing strategies for empowering economic potential	LO -6
able to communicate effectively both orally and in writing in the field of economics	LO-7
capable of applying information technology in problem-solving	LO-8
Capable of making decisions based on the analysis of information and data in the fields of development planning, monetary economics, and public economics	LO-9

Mapping of PLO and CLO for Statistik Penelitian Ekonomi Course is

CLO\PLO		PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9
CLO1	Understanding of the relationship between Economics and natural resources for the future.			V	V	V		V		

CLO2	Understanding of the allocation of "renewable" and "non-renewable" natural resources.		V	V	V	V	
CLO3	Understanding of recyclable, replaceable, reproducible, storable and common property natural resources.		V	V	V	V	
CLO4	Analyse natural resource markets, the role of energy, forest management, water resources systems, sustainable development, and natural resource policies in Indonesia.		V	V	V	V	

4. ASSESMENT PLAN

Assessment plan for for Statistik Penelitian Ekonomi Course is as follows

CLO\1		PL	PL	PLO 3	PLO 4	PLO 5	PLO	PLO 7	PL	PL
Ì		01	02				6		0 8	09
CLO 1	Understanding of the relationship between Economics and natural resources for the future.			 Participat ory Activities Assignme nt Exam Paper 	 Participat ory Activities Assignme nt ExamPaper 	 Participat ory Activities Assignme nt ExamPaper 		 Participat ory Activities Assignme nt ExamPaper 		
CLO -2	Understanding of the allocation of "renewable" and "non-renewable" natural resources.			 Participat ory Activities Assignme nt Exam Paper 	 Participat ory Activities Assignme nt ExamPaper 	 Participat ory Activities Assignme nt ExamPaper 		 Participat ory Activities Assignme nt ExamPaper 		
CLO -3	Understandi ng of recyclable, replaceable, reproducible, storable and common property natural resources			 Participat ory Activities Assignme nt Exam Paper 	 Participat ory Activities Assignme nt ExamPaper 	 Participat ory Activities Assignme nt ExamPaper 		 Participat ory Activities Assignme nt ExamPaper 		

Assesment Rubrics

Following the assessment plan there are three types of assessment for the course:1) Participatory Activities, 2) Assignment and Exam Paper, and 3) Performance and Product/project with the rubric as follows

1) Participatory Activities

Criteria	Score
Communicate effectively, frequently active in the class activities, appreciate others' opinions; always attend the class on time; always submit the assignment on time; and always participate in the completion of assignment	85 ≤ SA ≤ 100
Communicate effectively, occasionally active in the class activities, appreciate others' opinions; 80% of attendance; submit 90% of the assignment; and often participate in the completion of assignment.	70 ≤ SA < 85
Communicate ineffectively, rarely participate in the class activities, appreciate others' opinions; 75% of attendance; submit the 70% of assignments on time; and participate in the completion of assignments.	55 ≤ SA < 70
Communicate ineffectively, do not join class activities, do not appreciate others' opinions; rarely attend the class; rarely submit the assignment; and rarely participate in the completion of assignment	0 ≤ SA < 55

2) Assigment

The criteria for Assignment that use in this course are:

Criteria	5 Point	4 Point	3 Point	2 Point	1 Point
Conceptual Understandin g	Students demonstrate an in-depth understanding of the concepts of Natural Resource Economics, linking to theories, comprehensivel y providing factual examples with supporting data	Students demonstrate a deep understanding of the concepts of Natural Resource Economics, linking to theories, comprehensivel y providing factual examples, but without supporting data.	Students show a good understanding of the concept of Natural Resource Economics, linking it to theory, but not yet comprehensivel y providing factual examples and supporting data.	Students show a good understanding of the concepts of Natural Resource Economics, have not linked to theory, but comprehensivel y provide factual examples and supporting data.	Students do not understand the concept of Natural Resource Economics, have not linked it to the theory, have not comprehensivel y provided factual examples and supporting data.

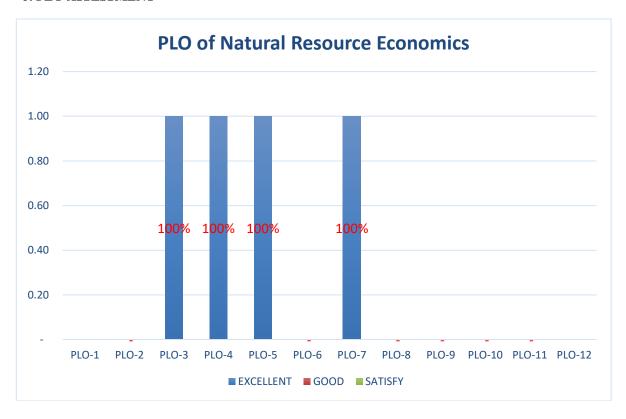
Criteria	5 Point	4 Point	3 Point	2 Point	1 Point
Presentation Skills	Students do not understand the concept of Natural Resource Economics, have not linked it to the theory, have not comprehensivel y provided factual examples and supporting data.	The student gave a confident presentation, explaining Natural Resource Economics and providing significant insight with little improvement.	Students give a basic presentation, but lack confidence and clarity in explaining the Economic analysis of Natural Resources and insights.	Students gave presentations that lacked theoretical understanding and coherence, making it difficult to follow Natural Resource Economics, and understand insights	The student does not deliver the presentation or the presentation delivered is disorganised and fails to effectively convey Natural Resource Economics and insights.

3) Exam Paper

The criteria for Exam Paper that use in this course are:

- 1. The ability to give answers correctly according to the key and rubrics;
- 2. The ability to provide robust argumentation according to theory;
- 3. The ability to provide systematic explanations; and
- 4. The ability to apply the substantive concepts in a situation comprehensively according to the key and rubrics.

5. PLO ASSESSMENT



6. SAMPLE COURSE LOGBOOK

3/7/24, 1:39 AM

SIAKADU: Cetak Jurnal Perkuliahan



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI

UNIVERSITAS NEGERI SURABAYA

Kampus Ketintang Jalan Ketintang, Surabaya 60231 T: +6231-8293484 F: +6231-8293484 laman: unesa.ac.id email : bakpk@unesa.ac.id

Aktivitas Perkuliahan

Nama Matakuliah : Ekonomi Sumberdaya Alam

Dosen:

LUCKY RACHMAWATI

Kelas : 2019A

(198305302009122004) WENNY RESTIKASARI (199507122022032019)

Jadwal & Ruang : G05.01.01 (13.00 - 15.30) R.

No.	Tanggal	Pertemuan	Topik	Peserta	Status	Dosen
1	31-08-2022	Pertemuan ke 1	Hubungan manusia dengan lingkungan2. Lingkungan sebagai aset3. Penilaian terhadap aset4. Peraturan dan kebijakan5. Problema dan kesimpulan	22	Terjadwal	Wenny Restikasari
2	07-09-2022	Pertemuan ke 2	Modal dasar SDA2. SDA stock3. Motivasi untuk cadangan4. Interpretasi rasio cadangan penggunaan	22	Terjadwal	Wenny Restikasari
3	14-09-2022	Pertemuan ke 3	Analisis biaya manfaat2. Isu estinasi manfaat3. Pendekatan estimasi biaya4. Perlakuan terhadap resiko5. Analisis dampak6. Contohcontoh analisis dampak7. Diskusi dan kesimpulan	22	Terjadwal	Wenny Restikasari
4	21-09-2022	Pertemuan ke 4	Macam renewable R dan non-renewable R2. Alokasi yang efisien3. Alokasi pasar4. Kontrol harga BBM5. Problema kartel6. Konservasi dan deplesi serta manajemen7. Contoh dan kesimpulan	22	Terjadwal	Wenny Restikasari
5	28-09-2022	Pertemuan ke 5	Efisiensi alokasi "Recylable R'dan "replaceable"2. Strategi dan problema3. Limbah dan kerusakan4. Keterbatasan potensi air	22	Terjadwal	Wenny Restikasari
6	05-10-2022	Pertemuan ke 6	Kelangkaan global2. Kebijakan dibidang pertanian3. Manajemen hutan4. Contoh dan diskusi	22	Terjadwal	Wenny Restikasari
7	12-10-2022	Pertemuan ke 7	Alokasi yang efisien2. Hak penguasaan perikanan	22	Terjadwal	Wenny Restikasari

724, 1:38	AM		SIAKADU: Cetak Jur	nai Penkukani	att	
8	19-10-2022	Pertemuan ke 8	UTS	22	Terjadwal	Wenny Restikasari
9	26-10-2022	Pertemuan ke 9	1. Permintaan dan Penawaran SDA : Non Renewable 2. Permintaan dan Penawaran SDA : Renewable	22	Terjadwal	Lucky Rachmawati
10	02-11-2022	Pertemuan ke 10	Peranan energi di Indonesia 2. Penghasilan devisa 3. Sumbangan energi 4. Pemasaran energi 5. Kesempatan kerja di sektor energi	22	Terjadwal	Lucky Rachmawati
11	09-11-2022	Pertemuan ke 11	Model permintaan energi 2. Model penawaran energi 3. Penentuan harga energi 4. Elastisitas penawaran energi 5. Peranan teknologi dan kuota	21	Terjadwal	Lucky Rachmawati
12	16-11-2022	Pertemuan ke 12	Peranan Hutan dalam ekonomi 2. Penggunaan Sumberdaya Hutan 3. Kebijakan Eksploitasi Optimum 4. Analisis Sensitivitas Rotasi Optimum 5. Konsep Manajemen Hutan	22	Terjadwal	Lucky Rachmawati
13	23-11-2022	Pertemuan ke 13	Karakteristik Sumberdaya Air dan Permintaan 2. Aspek Ekonomi Sumberdaya Air 3. Manajemen Kualitas Air 4. Minimum Biaya Standar Baku Air	22	Terjadwal	Lucky Rachmawati
14	30-11-2022	Pertemuan ke 14	Pertumbuhan yang berkelanjutan (Alokasi pasar, efisiensi, perdagangan dan lingkungan) 2. Macam pilihan (pertanian, energi, hasil akhir)	21	Terjadwal	Lucky Rachmawati
15	07-12-2022	Pertemuan ke 15	Kebijakan SDA 2. Review dari faktor kritis SDA di masa datang 3. Kekuatan Pasar 4. Lembaga Pemerintah 5. Pedoman dasar kebijakan SDA yang bertanggung jawab.	22	Terjadwal	Lucky Rachmawati



Jl. Lidah Wetan, Surabaya - 60213 Telepon :+6231-99424932 Faksimile :+6231-99424932 e-maii :bakpk@unesa.ac.id

PRESENSI KULIAH

Periode 2022/2023 Gasal

Mata Kuliah : Ekonomi Sumberdaya Alam

Kelas : 2019A Prodi : S1 Ekonomi Dosen : Wenny Restikasari, S.E., M.S.E. Dr. Lucky Rachmawati, S.E., M.Si.

	10	1	12.						- Pk	ertem	luan	Ke	D. Y						
			10	2	3	4	5	6.	.7	8	9	10	11.	12	13	14	15	16	1
No	NIM	Nama Mahasiswa	31	07	14	21	28	05	12	19	26	02	09	16	23	30	07		96
			Aug	Sep	Sep	5ep	Sep	Oct	Oct	Oct	Oct	Nov	Nov	Nov	Nov	Nov	Dec		
		1	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22		
1.	19081324003	EMILIA TITAH NABIBAH	H	Н	Н	Н	Н	H	Н	Н	H	Н	H	H	H.	Н	H:	_3	93.8 %
2.	19081324004	HUSNUD DINIYAH	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н		93.8 %
3,	19081324008	PUTRI RACHMAH DANI	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	Н		93.89
4.	19081324009	DEWI AFIFAH	H	Н	Н	H	Н	H	H	Н	H.	H	H:	Н	H.	Н	H.	- 3	93.8 %
5.	19081324016	SILVYA PUTRI WARDYANA	Н	Н	Н	H	Н	H	H	H	H	Н	Н	Н	H	Н	H		93.8 %
6.	19081324017	RAFI ATHA MAHENDRA	Н	H	Н	Н	Н	Н	н	Н	Н	Н	H	Н	H	H	H		93.8 %
7.	19081324019	QATRUNNADA SALSABILA ARUM LUKLULI	Н	Н	н	Н	н	Н	Н	н	н	Н	Н	н	н	н	Н		93.8 %
8.	19081324022	REGINA KEZIA RAHAYU SYAHPUTRI	н	н	Н	Н	Н	Н	н	Н	н	Н	н	н	н	н	н		93.8 %
9.	19081324023	ALDI MAULANA AKBAR	H	Н	Н	H	H	Н	н	Н	Н	Н	Н	H	Н	Н	Н	1	93.89
10.	19081324024	ALVIRA LOKAHITA SIRAIT	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	Н	н	н	н		93.8 9
11.	19081324025	GREGORIUS GERY MITE NAGE	Н.	Н	н	Н	Н	H	Н	н	H	Н	H	н	H	н	H	- 5	93.8 9
12.	19081324035	IAN ADHARA SHOLICHAN	Н	H	Н	H	Н	H	H	Н	H	Н	н	H	H	н	H		93.8 %
13,	19081324037	ALIFYA FARAHUSNA PUTRIE HASJIM	Н	Н	н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	Н		93.8%
14.	19081324038	LUTHFI REZANG ROY VANSYAH	H	Н	н	н	H	H	н	н	н	н	Н	·H	н	H	H		93.8 9
15.	19081324040	AHMAD FAIZAL FANANI	H	Н	H	Н	н	н	H	Н	н	H	Н	H	H	Н	н		93.8 %
16.	19081324041	GEVANA ARDRARANI	H	H	н	Н	н	Н	Н	Н	Н	Н	H	н	H	1	H		93.8 %
17,	19081324042	APRILIA HIDAYAH	Н	Н	Н	Н	Н	н	н	Н	Н	Н	н	Н	Н	Н	Н		93.8 9
18.	19081324044	ALMAS BAIDURY	Н	Н	Н	Н	н	Н	H	Н	Н	Н	Н	Н	Н	Н	н		93.8 9
19.	19081324045	ACHMAD DIENIL WACHIDI SYARIFULLAH	H:	Н	Н	Н	н	н	Н	н	H	Н	A:	н	н	н	H.	-	87.5 9
20.	19081324046	APRILLA GAGAH DWI RAHMAN	Н	Н	Н	Н	Н	Н	н	Н	Н	Н	Н	Н	Н	Н	Н		93.8 %
21,	19081324047	RAHMATUZ ZAINIYA SALSABILLA	Н	Н	н	Н	Н	н	Н	Н	Н	Н	H.	Н	Н	н	Н		93.8 9
22.	19081324048	SAFINA SALSAFADHILA SAFARIANTO	Н	Н	н	Н	Н	н	н	н	н	Н	н	Н	Н	· H	Н		93.8 9

7. SAMPLE OF EXAM PAPER (MID-EXAM AND FINAL EXAM)

7.a. MID-EXAM



KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN UNIVERSITAS NEGERI SURABAYA FAKULTAS EKONOMI

JURUSAN ILMU EKONOMI

Kampus Ketintang, Surabaya 60231, Telepon: +6231- 8285362, Fax: +6231- 8293416 Laman: https://fe.unesa.ac.id, email: fe@unesa.ac.id

SOAL UJIAN TENGAH SEMESTER GANJIL 2022/2023

Mata Kuliah: Ekonomi Sumber Dava Alam Kelas : 2019 A Hari, Taggal: Kamis, 20 Oktober 2022 Jam Ke

Dosen : 1. Dr.Lucky Rahmawati, S.E., M.Si. Waktu : 90 menit

2. Wenny Restikasari, S.E., M.SE

Petunjuk:

1. Tidak Diperkenankan / diperkenankan membuka buku teks, buku catatan, slide mata kuliah, dan

- Tidak diperkenankan /diperkenankan membuka laptop, ponsel, dan peralatan elektronik lain kecuali kalkulator
- Kerjakan soal secara jujur dan mandiri
- 4. Semua tindakan yang mengindikasikan kecurangan dinyatakan tidak lulus

Kerjakan Soal dibawah ini!

- 1. Jekaskan skema ruang lingkup manajemen sumber daya alam serta hubungannya dengan manusia dan asset! (Skor 15)
- 2. Menggunakan konsep sumber daya alam stock, diartikan sebagai sumber daya yang memiliki cadangan terbatas sehingga eksploitasi terhadap sumber daya tersebut akan menghabiskan cadangan sumber daya. Jelaskan cara untuk menghitung cadangan mengestimasi cadangan sumber daya alam pada saat ini! (Skor 20)
- 3. Jelaskan dan berikan contoh pendekatan analisis biaya manfaat pada sumber daya alam! (Skor 20)
- 4. Efisiensi alokasi sumber daya alam, pada studi kasus pengelolaan alokasi air yang memiliki keterbatasan ketersediaan air di dunia, potensi sumber daya air. Berdasarkan studi kasus tersebut, jelaskan dengan menggunakan grafik untuk mencapai alokasi efisiensi dan kelangkaan air! (Skor 20)
- 5. Berdasakan gambar di bawah ini, apa yang terjadi ketika kita mengeluarkan beberapa ikan, misalnya, dari populasi yang memiliki daya dukung? Dalam grafik, kami menyatakan ini sebagai panen di titik Q. Karena produktivitas bersih nol pada titik awal K kami, panen Q mengurangi stok ikan dengan kuantitas Q-K, dan kami menemukan diri kami di stok R". Pada stok populasi yang lebih rendah, ada lebih sedikit ikan yang bersaing untuk mendapatkan makanan, tempat berlindung, dan tempat berkembang biak yang tersedia, dan ikan yang tersisa mendapatkan lebih banyak dari masing-masing ikan daripada dalam kondisi yang lebih padat. Kelimpahan sumber daya yang lebih besar per individu ini mengarah pada peningkatan tingkat pertumbuhan dan kesuburan. Dengan persaingan yang lebih sedikit untuk daerah pemijahan, persentase telur yang lebih tinggi diletakkan di lokasi



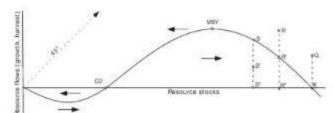


KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN UNIVERSITAS NEGERI SURABAYA FAKULTAS EKONOMI

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yang diinginkan, sehingga meningkatkan perekrutan. Selain itu, sebagian besar spesies tumbuh paling cepat di masa mudanya (sebagai persentase biomassa) dan lebih lambat seiring bertambahnya usia. Jika kita memanen ikan yang lebih besar dan lebih tua, populasi yang tersisa memiliki persentase rekrutan yang lebih tinggi dan potensi pertumbuhan jaring yang lebih cepat. (Skor 25)



Pertumbuhan, atau Hasil Yang Berkelanjutan, Kurva.





MID EXAM ASSESSMENT RUBRIC

The criteria for Assignment Exam Paper that use in this course are:

- 1. The ability to give answers correctly according to the key and rubrics;
- 2. The ability to provide robust argumentation according to theory;
- 3. The ability to provide systematic explanations; and
- 4. The ability to apply the substantive concepts in a situation comprehensively according to the key and rubrics.

7.b. FINAL EXAM





FAKULTAS EKONOMIKA DAN BISNIS JURUSAN ILMU EKONOMI

Kampus Ketintang, Jalan Ketintang, Surabaya 60231 Telepon: +6231 - 8283362, Faksimil: +6231 - 8293416 Laman: http://feb.unesa.ac.id email: feb@unesa.ac.id

SOAL AKHIR SEMESTER GASAL 2022/2023

Mata Kuliah : EKONOMI SUMBER DAYA ALAM Kelas : Ekonomi 19A&I Harl, Tanggal : Selasa, 20 Desember 2022 Jam Ke :-

Dosen : 1. Dr. Lucky Rachmawati, S.E., M.Sl Waktu
2. Wenny Restikasari, S.E., M.S.E

TERVALIDASI

: Proyek 1 minggu

Petunjuk Pengerjaan

 Buat Poster, dengan topik Ekonomi Sumber Daya Alam yang terkait deklarasi pemimpin G20 berikut

https://drive.google.com/file/d/1sxEbVv8oKGj4C1UXZ7i8fr3xUvm8P3eu/view?usp=sharing

- 2. Poster berisi tentang: a. Tema yang diangkat, b. Isu ekonomi sumber daya alam terkait deklarasi yang dibahas, c. Dampak/akibat dari Isu yang muncul (bisa positif atau negatif), d. pendapat terkait apa yang seharusnya dilakukan masyarakat terkait masalah tersebut
- Share poster kalian pada Instagram dan mention @prodi.ekonomi_febunesa dan @lucky_rachmawati
- 4. Poster dikumpulkan dalam bentuk PDF dan Link Instagram ke Google Form berikut https://docs.google.com/forms/d/e/1FAlpQLSf5YJiuhULIGb32smkCVrAAwCB51PHmGqR5cSg9xWGzSpSRmA/viewform

5. Kriteria Penilaian Poster dan Bobot, sebagai berikut:

No.	Kriteria Penilaian	Bobot
1	Orisinilitas Karya	20
2	Format Paper: a. Bagaimana struktur gambar yang ada didalam poster b. Komposisi gambar: warna dan tata letak obyek dalam gambar c. Keindahan/sisi artistic penyajian visual	25
3	Isi: a. Kesesuaian karya dengan tema b. Kerangka teori dan kerangka konsep c. Keunikan karya	30
4	Penyampaian pesan: a. Poster yang dibuat mudah dimengerti b. Poster yang dibuat mampu menarik perhatian pembaca	25

---Selamat Mengerjakan--

www.unesa.ac.id | "Growing with character"

7.c. Assignment

			ASSIG	MENT			
Course	: RESOURCE I	ECONOMICS					
Lecture	: Dr. Lucky Rac	chmawati S.E., M.	Si.				
Grade Weighting for Final Grade	: 30%						
Working Instructions	theories, factual	o and make a prese I examples and sup esults of your grou	porting data.		ource Economics v	which contains: co	ncepts,
Assessment Rubric	Criteria	5 Point	4 Point	3 Point	2 Point	1 Point	
	Conceptual Understandi ng	Students demonstrate an in-depth understanding of the concepts of Natural Resource Economics, linking to theories, comprehensiv ely providing factual examples with supporting data	Students demonstrate a deep understanding of the concepts of Natural Resource Economics, linking to theories, comprehensiv ely providing factual examples, but without supporting data.	Students demonstrate a deep understanding of the concepts of Natural Resource Economics, linking to theories, comprehensiv ely providing factual examples, but without supporting data	Students demonstrate a deep understanding of the concepts of Natural Resource Economics, linking to theories, comprehensiv ely providing factual examples, but without supporting data	Students do not understand the concept of Natural Resource Economics, have not linked it to the theory, have not comprehensively provided factual examples and supporting data.	
	Presentation Skills	Students deliver a professional and engaging presentation, effectively explain Natural Resource Economics, and provide clear and interesting insights.	The student gave a confident presentation, explaining Natural Resource Economics and providing significant insight with little improvement.	Students give a basic presentation, but lack confidence and clarity in explaining the Economic analysis of Natural Resources and insights.	Students gave presentations that lacked theoretical understanding and coherence, making it difficult to follow Natural Resource Economics, and understand insights	The student does not deliver the presentation or the presentation delivered is disorganised and fails to effectively convey Natural Resource Economics and insights.	

8. SAMPLE OF STUDENTS ASSIGMENT





Sumberdaya alam milik umum (common resources) mempunyai dua

pertama, tidak terbatasnya cara-cara pengambilan

dua, terdapat interaksi diantara para pemakai mberdaya itu sehingga terjadi saling berebut satu na lain dan terjadi eksternalitas dalam biaya yang tinya disekonomi

Satu istilah yang berlaku bagi sumberdaya alam milik umum adalah "every one's and no one's property is every one property" artinya bahwa karena sumberdaya alam tersebut milik semua orang maka justru karena itu tidak seorangpun yang memilikinya. Memang dalam banyak hal ada banyak peraturan yang mengatur atau membatasi, namun peraturan tersebut pada dasarnya tidak efektif dan efisien, sehingga timbul hal-hal sebagai berikut:

- Penangkapan akan berlebihan
 Punahnya populasi ikan akan lebih pasti dibanding dengan di bawa pemilikan perorangan
 Dapat menjadikan biaya penangkapan mahal (Suparmoko, 1987).

Sedangkan menurut (Victor, 2002) pengelolaan sumberdaya alam milik umum akan meninbulkan dilema dalam pengelolaannya.

Dilema yang pertama adalah eksternalitas, eksternalitas muncul ketika nelayan mengambil ikan dari laut tanpa memperhitungkan akibat pengambilan ikan tersebut bagi nelayan lain. Dilema muncul karena ketika nelayan yang mengambil ikan memetik keuntungan, nelayan lain ternyata mengalami kerugian karena berkurangnya ikan.

Dilema kedua yang sering dihadapi nelayan adalah adanya eksternalitas teknologi. Kondisi ini terjadi ketika nelayan saling melakukan intervensi di lokasi penangkapan ikan yang pada akhirnya melahirkan konlilik antar nelayan.

Dilema ketiga berkaitan dengan masalah penentuan lokasi penangkapan ikan. Oleh karena ikan biasanya berkumpul atau berkonsentrasi di lokasi dan perairan tertentu, seperti lokasi berlindung ikan, meroka yang memang diberikan izin untuk menangkap ikan di lokasi itu pasti akan memiliki produktivitas yang relatif lebih itnggi. Masalah muncul ketika harus menentukan dan cara menentukan siapa yang memiliki akses ke lokasi tersebut.







KONDISI SUMBERDYA ALAM IKAN

Luas teritorial wilayah laut Indonesia keseluruhannya berkisar 3,1 juta km².

Dari luas perairan teritorial maupun ZEE, diperkirakan ada potensi ikan sebesar 6,1 juta ton yang dapat ditangkap secara lestari sepanjang tahun. Pemanfaatan potensi ini sudah sekitar 60 %.

Prosentase ini sebenamya sudah merupakan suatu peringatan, karena berdasarkan tanggung jawab komitmen internasional mengenai perikanan yang dibuat Food and Agriculture Organization (FAO) dan Code of Conduct for Responsible Fisheries (CCRF), hanya sekitar 80% ikan yang boleh ditangkap.

Kondisi Sumberdaya Alam Ikan di Indonesia

Jika dipotret setiap perairan, umumnya dapat dikatakan bahwa perairan teritorial di kawasan barat Indonesia seperti Malaka, Laut Jawa, Laut Flores, dan Laut Cina Selatan, telah mengalami atau menunjukkan gejala tangkap lebih (over fishing) bagi jenis-jenis ikan yang tinggi nilai ekonomisnya

Gambaran indikasi over fishing dapat dilihat dari produksi tangkapan ikan laut pada tahun 1999 telah mencapai 3,68 juta ton atau sekitar 60% dari perkiraan MSY (Maximum Sustainable Yield) sekitar 6,1 juta ton.

Akan tetapi jika tolak ukurnya bukan MSY, tapi TAC (Total Allowable Catch) yang memperkirakan potensi ikan di Indonesia sekitar 5 juta ton, maka sebetulnya pada akhir tahun 1999 sumberdaya ikan laut Indonesia telah dimanfaatkan sekitar 74% dari potensi yang tersedia.

Meskipun secara agregat nasional baru 74% sumberdaya ikan Indonesia yang dimanfaatkan, namun distribusinya berdasarkan daerah sangat tidak seimbang.

Kondisi Sumberdaya Alam Ikan

Hasil penelitian terakhir yang dilakukan oleh Food and Agriculture Organization (FAO) mengungkapkan bahwa produksi ikan dunia cenderung stabil atau meningkat dengan prosentase yang kecil yaitu sekitar 1,5% per tahun selam lima tahun terakhir.

Dengan demikian, jika pola ini tetap berjalan, ketergantungan produksi pada kegiatan penangkapan ikan makin kecil. Sebaliknya, ketergantungan pada budi daya ikan semakin besar.

FAO juga mengevaluasi status pemanfaatan sumberdaya ikan menurut perairan-perairan penting di dunia. Untuk itu, perairan di seluruh dunia dikelompokkan menjadi 16 perairan vang terdiri:

- elah dimanfaatkan sekitar lebih dari 70% wa telah dimanfaatkan antara 10% hingga 50% (FAO, 2002).

KRITERIA PENGELOLAAN SUMBERDAYA ALAM IKAN

Kriteria dan indikator pengelolaan sumberdaya alam ikan yang baik setidaknya ada tiga yaitu antara lain:

kriteria dan indikator efisiensi

kriteria dan indikator berkelanjutan

kriteria dan indikator nemerataan



Kriteria dan Indikator Efisiensi

Kriteria efisiensi disebut juga dengan produktivitas, yaitu kriteria penilaian kinerja pengelolaan dengan melihat besaran (magnitude) output yang dihasilkan rezim tersebut secara relatif dibandingkan output pengelolaan lain atau biaya yang dikeluarkan untuk memperoleh output itu.

Kriteria dan Indikator Berkelanjutan

Kriteria berkelanjutan suatu manajemen pengelolaan sumberdaya alam ikan dapat dinilai dari sisi sikap masyarakat untuk menjaga lingkungan dan sumberdaya (stewardship) dan kelenturan (resilence) sistem. Sikap atau tindakan masyarakat yang stewardship adelah kecenderungan masyarakat untuk mempertahankan produktivitas serta karakteristik ekologi sumberdaya. Stewardship dapat dibagi menjadi tiga komponen yaitu: horizon waktu, pemantauan, dan penegakan hukum.

Kiteria dan Indikator Pemerataan

Kriteria pemerataan adalah yang paling banyak disoroti mayarakat. Hal ini disebabkan karena masyarakat tidak puas dengan apa yang terjadi, yang mereka terima, dan yang mereka alami. Ketidakpuasan masyarakat disebabkan karena adanya ketimpangan di tengah-tengah mereka atau antara mereka dengan orang atau kelompok luar.

Menurut Hann (1994) kriteria pemerataan memiliki empat komponen utama, yaitu:

- Representasi: suatu pengelolaan yang lebih adil harus mampu mewakili keseluruhar
 kapangan dan mangalam dari sakuruh kesagaman yang ada dalam mangalam dari sakuruh kesagaman yang dari sakuruh dari sakuru
- Kejelasan proses: proses manajemen harus memiliki tujuan yang jelas pelaksangganya dijakukan secara transparan.
- Harapan yang homogen: seluruh pihak yang teribat atau semua pemegang kepentingan harus memiliki kesepakatan tentang proses dan tujuan pengelakan sumberdaya.
- Dampak distribusi: proses dan pelaksanaan manajemen harus mampu memberikar perubahan distribusi barang dan jasa. Hal tersebut harus merupakan suatu opin yang perlu dipertimbangkan sejak awai.









10. SAMPLE OF STUDENTS ASSESMENT

No	NIM	Nama Mahasiswa	Angkatan	Kehadiran	Part 20%	Tugas 30%	Exam Paper 50%	Final Grade	Huruf
1	19081324003	EMILIA TITAH NABIBAH	2019	93.75%	85	85	88	86,5	A
2	19081324004	HUSNUD DINIYAH	2019	93.75%	85	85	86	85,5	A
3	19081324008	PUTRI RACHMAH DANI	2019	93.75%	85	85	85,6	85,3	A
4	19081324009	DEWI AFIFAH	2019	93.75%	85	85	85,2	85,1	A
5	19081324016	SILVYA PUTRI WARDYANA	2019	93.75%	85	85	87,6	86,3	A
6	19081324017	RAFI ATHA MAHENDRA	2019	93.75%	85	85	84,2	84,6	A-
7	19081324019	QATRUNNADA SALSABILA ARUM LUKLULI	2019	93.75%	85	85	86	85,5	A
8	19081324022	REGINA KEZIA RAHAYU SYAHPUTRI	2019	93.75%	85	85	84,2	84,6	A-
9	19081324023	ALDI MAULANA AKBAR	2019	93.75%	85	85	88	86,5	A
10	19081324024	ALVIRA LOKAHITA SIRAIT	2019	93.75%	85	85	87,6	86,3	A
11	19081324025	GREGORIUS GERY MITE NAGE	2019	93.75%	85	85	82,8	83,9	A-
12	19081324035	IAN ADHARA SHOLICHAN	2019	93.75%	85	85	87,2	86,1	A
13	19081324037	ALIFYA FARAHUSNA PUTRIE HASJIM	2019	93.75%	85	85	84,2	84,6	A-
14	19081324038	LUTHFI REZANG ROY VANSYAH	2019	93.75%	90	90	88,8	89,4	A
15	19081324040	AHMAD FAIZAL FANANI	2019	93.75%	85	85	85,2	85,1	A
16	19081324041	GEVANA ARDRARANI	2019	93.75%	85	85	83,4	84,2	A-
17	19081324042	APRILIA HIDAYAH	2019	93.75%	88	88	88	88	A
18	19081324044	ALMAS BAIDURY	2019	93.75%	88	88	81	84,5	A-
19	19081324045	ACHMAD DIENIL WACHIDI SYARIFULLAH	2019	87.5%	85	85	84	84,5	A-
20	19081324046	APRILLA GAGAH DWI RAHMAN	2019	93.75%	90	90	86	88	A
21	19081324047	RAHMATUZ ZAINIYA SALSABILLA	2019	93.75%	85	85	86,4	85,7	A
22	19081324048	SAFINA SALSAFADHILA SAFARIANTO	2019	93.75%	85	85	84,6	84,8	A-