## Table of Contents

- A. Module Hanbook
- B. Course Program
- C. Assessment Rubric
- D. Appendixes
  - 1. Question Sheet for Mid Term Course Examination
  - 2. Question sheet for Final Course Examination
  - 3. Assessment Rubric of Final Examination

## A. Module Handbook

# MINISTRY OF HIGHER EDUCATION, SCIENCE, AND TECHNOLOGY UNIVERSITY OF LAMPUNG FACULTY OF TEACHER TRAINING AND EDUCATION

Jalan Prof. Dr. Sumantri Brojonegoro No.1 Gedong Meneng - Bandar Lampung 35145

Telp./Fax: (0721) 704624 e-mail: fkip@unila.ac.id,

laman: <a href="http://fkip.unila.ac.id">http://fkip.unila.ac.id</a>

# Undergraduate Program of Biology Education HANDBOOK

**MODULE** 

Module Name	Biology Project-Based Entrepreneurship
Module Level, if	-
Applicable	
Code	KBO625125
Sub-Heading, (*if	-
Applicable)	
Classes, (*if Applicable)	-
Semester	VI (Semester Enam)
Module Coordinator	Rini Rita T, M, M.Pd.
Lecturers	Rini Rita T. M, M.Pd. Mufidah, S.Pd., M.Pd.
Language	Bilingual (Bahasa and English)
Classification With in the	Elective – Optional Course
Curriculum	
Teaching Format/Class	Contact hours: 16 weeks x 100 minutes
Hours Per Week During	Structured learning: 16 weeks x 120 minutes
the Semester	Independent study: 16 weeks x 100 minutes
Teaching Methods	Lectures (100 minutes)
Workfload	Contact Hours: 16 weeks x 100 minutes
Credit Points	2  SKS = (1.28 * 3) = 2.56  ECTS
Prerequisites Courses	-
Course Learning Outcomes (CLOs)	Design experiments and analyze data to demonstrate the solution's performance, then develop an initial business plan (TAM–SAM–SOM, unit economics, supply chain, pricing, projections). Regulatory and sustainability aspects (PIRT/BPOM/SNI/halal certification, biological waste management, a simple LCA) are integrated, and the entire process is communicated professionally through pitches, demos, and team collaboration while upholding scientific integrity. The end result is a tested, market-oriented biology/biotech solution that is commercially viable, regulatory-compliant, and sustainable, with data-driven decision-making
Content	<ol> <li>Introduction to the project-based entrepreneurship course in biology</li> <li>Market Trends</li> </ol>

	3. Data-Driven Opportunity Prioritization				
	4. Value Proposition & Business Model				
	5. Market Validation Plan				
	6. Initial Problem–Solution Fit				
	7. Laboratory SOPs (Standard Operating Procedures)				
	8. Designing Experiments				
	9. Data Analysis + Business Plan				
	10. Ethical–Professional Reflection				
	11. Introduction to the project-based entrepreneurship				
	course in biology				
	12. Market Trends				
	13. Data-Driven Opportunity Prioritization				
	14. Value Proposition & Business Model				
	15. Introduction to the project-based entrepreneurship				
	course in biology				
	16. Market Trends				
	17. Data-Driven Opportunity Prioritization				
	18. Value Proposition & Business Model				
	19. Market Validation Plan				
	20. Initial Problem–Solution Fit				
Study/Exam	1. Mid-Semester Examination: 20				
Achievements	<ul><li>2. Final Examination: 20</li><li>3. Discussion and Presentation Activities: 20</li></ul>				
	4. Group Project: 20				
	5. Individual Project: 15				
	6. Attendance (minimum 80% class attendance): 5				
	Participants are evaluated based on their performance in				
Examination Methods	Participants are evaluated based on their performance in				
Examination Methods	1				
Examination Methods	class lectures: written test and performance practicum based project				
Examination Methods  Forms of Media	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id)				
	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials				
	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com				
Forms of Media	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com Related journals				
	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com Related journals  Primary:				
Forms of Media	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com Related journals  Primary:  1. R. Tri Priyono dkk. 2023. Project-based entrepreneurial				
Forms of Media	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com Related journals  Primary:  1. R. Tri Priyono dkk. 2023. Project-based entrepreneurial learning (PBEL): a blended model for startup creations				
Forms of Media	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com Related journals  Primary:  1. R. Tri Priyono dkk. 2023. Project-based entrepreneurial learning (PBEL): a blended model for startup creations at higher education institutions. <i>Journal of Innovation</i>				
Forms of Media	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com Related journals  Primary:  1. R. Tri Priyono dkk. 2023. Project-based entrepreneurial learning (PBEL): a blended model for startup creations at higher education institutions. Journal of Innovation and Entrepreneurship.				
Forms of Media	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com Related journals  Primary:  1. R. Tri Priyono dkk. 2023. Project-based entrepreneurial learning (PBEL): a blended model for startup creations at higher education institutions. Journal of Innovation and Entrepreneurship.  2. Syaiful Haq, Nizwardi, Jalinus dkk. 2024.				
Forms of Media	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com Related journals  Primary:  1. R. Tri Priyono dkk. 2023. Project-based entrepreneurial learning (PBEL): a blended model for startup creations at higher education institutions. Journal of Innovation and Entrepreneurship.				
Forms of Media	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com Related journals  Primary:  1. R. Tri Priyono dkk. 2023. Project-based entrepreneurial learning (PBEL): a blended model for startup creations at higher education institutions. <i>Journal of Innovation</i> and Entrepreneurship.  2. Syaiful Haq, Nizwardi, Jalinus dkk. 2024. Entrepreneurship Project-Based Practical Learning				
Forms of Media	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com Related journals  Primary:  1. R. Tri Priyono dkk. 2023. Project-based entrepreneurial learning (PBEL): a blended model for startup creations at higher education institutions. <i>Journal of Innovation and Entrepreneurship</i> .  2. Syaiful Haq, Nizwardi, Jalinus dkk. 2024. Entrepreneurship Project-Based Practical Learning Model: Development and Implementation. <i>TEM Journal</i> (2024)  3. Alfia Anesya Putri Difa dkk. 2025. The Influence of				
Forms of Media	class lectures: written test and performance practicum based project  Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com Related journals  Primary:  1. R. Tri Priyono dkk. 2023. Project-based entrepreneurial learning (PBEL): a blended model for startup creations at higher education institutions. <i>Journal of Innovation</i> and Entrepreneurship.  2. Syaiful Haq, Nizwardi, Jalinus dkk. 2024. Entrepreneurship Project-Based Practical Learning Model: Development and Implementation. TEM Journal (2024)				

	Interest in Entrepreneurship. International Journal of Entrepreneurial Knowledge.				
Ethics and Rules	<ol> <li>Dress clean, neat and polite</li> <li>Not allowed: wearing sandals, wearing t-shirts, long hair</li> <li>Turn off <i>your cell phone during</i> offline and online lectures</li> </ol>				

Course Coordinator PJMK

(Rini Rita T. Marpaung, M.Pd, )

## **B.** Course Program

## STUDY CONTRACT

Course	Kewirausahaan berbasis Projek Biologi
Course code	KBO625125
Semester	VI (Six Semester)
Subject Prerequisites	
Level Study Program	Bachelor's Program (S1)
Lecturer	1. Rini Rita T. Marpaung , S.Pd. , M.Pd.
	2. Mufidah, S.Pd., M.Pd
Course Description	Integrating entrepreneurship theory with biological practice so that students can generate innovations that carry not only academic value but also economic, social, and environmental value. Example projects that can be developed include biotechnology-based functional foods, the use of microorganisms, eco-friendly biopesticides, herbal products, and the conversion of biological waste into marketable products.
Course Learning	Design experiments and analyze data to validate solution performance,
Outcomes (CLOs)	then develop an initial business plan (TAM–SAM–SOM, unit economics, supply chain, pricing, projections). Regulatory and sustainability aspects (PIRT/BPOM/SNI/halal, biological waste management, a simple LCA) are integrated, and the entire process is communicated professionally through pitches, demos, and team collaboration that upholds scientific integrity. The end result is a tested, market-oriented, commercially viable, regulation-compliant, and sustainable biology/biotech solution, with data-driven decision-making
Topic	1. Introduction to the project-based
	entrepreneurship course in biology
	2. Market Trends
	3. Data-Driven Opportunity Prioritization
	4. Value Proposition & Business Model
	5. Market Validation Plan
	6. Initial Problem–Solution Fit
	7. Laboratory SOPs (Standard Operating
	Procedures)
	8. Designing Experiments
	9. Data Analysis + Business Plan
	10. Ethical–Professional Reflection
	11. Introduction to the project-based entrepreneurship course in biology
	12. Market Trends
	13. Data-Driven Opportunity Prioritization
	1
	14. Value Proposition & Business Model
	15. Market Validation Plan
	16. Initial Problem–Solution Fit
	17. Laboratory SOPs (Standard Operating
	Procedures)
	18. Designing Experiments
	19. Data Analysis + Business Plan
	17. Dam / Maryoto   Dustilloss I full

	20. Ethical–Professional Reflection
Lecture Strategy	Lectures are conducted with Project Based Learning, discussions, questions and answers and assignments through the Unila V-class LMS.
Instructional Media	Virtual Class (www.v-class.unila.ac.id) Powerpoint Presentation Materials quizizz.com Related journals
Evaluation	Participants are evaluated based on their performance in class lectures: written test and performance practicum based project
Literature	Primary:  1. R. Tri Priyono dkk. 2023. Project-based entrepreneurial learning (PBEL): a blended model for startup creations at higher education institutions. <i>Journal of Innovation and Entrepreneurship</i> .  2. Syaiful Haq, Nizwardi, Jalinus dkk. 2024. Entrepreneurship Project-Based Practical Learning Model: Development and Implementation. <i>TEM Journal</i> 3. Alfia Anesya Putri Difa dkk. 2025. The Influence of Entrepreneurial Learning Based on Project-Based Learning and Self-Efficacy on Vocational Students' Interest in Entrepreneurship. <i>International Journal of Entrepreneurial Knowledge</i>
Ethics and Rules	<ol> <li>Dress clean, neat and polite</li> <li>Not allowed: wearing sandals, wearing t-shirts, long hair</li> <li>Turn off <i>your cell phone during</i> offline and online lectures</li> </ol>

Course Coordinator

(Rini Rita T. Matpaung S.Pd., M.Pd, )



# UNIVERSITY OF LAMPUNG FACULTY OF TEACHER TRAINING AND EDUCATION DEPARTMENT OF MATHEMATICS AND NATURAL SCIENCES BIOLOGY EDUCATION STUDY PROGRAM

## **SEMESTER LEARNING PLAN (RPS)**

Course Name	Currency Code Studying	Weight (credits)		Semester	Date of Compilation
Entomology	KBO 620422		2 (2-0)		July 18, 202 4
Authorization	-	oordinator Name RPS Field Coordinator Skills (If Any)		Head of Study Program	
	Rini Rita T. Mai	rpaung, S.Pd., M.Pd	Rini Rita T. Marpaung, S.Pd., M.Pd		T. Marpaung, ., M.Pd.

# **Learning Outcomes** (CP)

## **CPL-PRODI** (Study Program Graduate Learning Outcomes) Assigned to Courses

#### **Attitude**

- 1. Be pious to God Almighty and be able to demonstrate a religious attitude.
- 2. Internalize scientific values, norms and ethics and be able to develop them through Entomology lectures
- 3. Collaborate and show a responsible attitude in the field of Entolomolgy studies.
- 4. Internalize the spirit of independence and fighting spirit and be able to develop it through Entomology lectures.

### **General Skills**

- 1. Applying logical, critical, systematic and innovative thinking in the context of developing or implementing science and technology that pays attention to and applies humanities values that are in accordance with the field of Entomology.
- 2. Demonstrate independent, quality, and measurable performance through Entomology learning.

#### **CP Special Skills**

1. Examine the implications of the development or implementation of science and technology that pay attention to and apply humanities values in accordance with the field of Entomology based on scientific rules, procedures and ethics in order to produce solutions, ideas and designs.

	2. Prepare a scientific description of the results of the Entolomolgi study in the form of an investigation report.							
	CP Knowledge							
	<ol> <li>Mastering facts, concepts, principles, laws, theories and procedures in the field of Entomology in depth and their application.</li> <li>Have sensitivity in finding problems regarding Entomology.</li> </ol>							
	3. Applying logical, critical, systematic and innovative thinking in the context of solving Entomology problems.							
	4. Communicate recommendations on problem solving in the context of Entomology based on application and research.							
	CPMK (Course Learning Outcomes)							
	Merancang eksperimen dan menganalisis data untuk membuktikan kinerja solusi, kemudian menyusun rencana bisnis							
	awal (TAM-SAM-SOM, unit economics, rantai pasok, harga, proyeksi). Aspek regulasi & keberlanjutan							
	(PIRT/BPOM/SNI/halal, pengelolaan limbah biologis, LCA sederhana) diintegrasikan, dan seluruh proses							
	dikomunikasikan secara profesional melalui pitch, demo, dan kolaborasi tim dengan menjunjung integritas ilmiah. Hasil							
	akhirnya adalah solusi biologi/biotek yang teruji, berorientasi pasar, layak bisnis, patuh regulasi, dan berkelanjutan,							
	dengan pengambilan keputusan yang berbasis data							
<b>Brief Description of</b>	Mengintegrasikan teori kewirausahaan dengan praktik biologi, sehingga mahasiswa mampu menghasilkan inovasi yang							
MK	tidak hanya memiliki nilai akademik tetapi juga nilai ekonomi, sosial, dan lingkungan. Contoh proyek yang dapat							
	dikembangkan mencakup produk pangan fungsional berbasis bioteknologi, pemanfaatan mikroorganisme, biopestisida							
	ramah lingkungan, produk herbal, hingga pengelolaan limbah biologis menjadi produk bernilai jual.							
Study Materials	1. 1. Introduction to the project-based entrepreneurship course in biology							
/ Learning	2. Market Trends							
Materials	3. Data-Driven Opportunity Prioritization							
	4. Value Proposition & Business Model							
	5. Market Validation Plan							
	6. Initial Problem–Solution Fit							
	7. Laboratory SOPs (Standard Operating Procedures)							
	8. Designing Experiments							
	9. Data Analysis + Business Plan							
	10. Ethical–Professional Reflection							
	11. Introduction to the project-based entrepreneurship course in biology							
	12. Market Trends							
	13. Data-Driven Opportunity Prioritization							

	14. Value Proposition & Business Model					
Reference List	<ol> <li>Main:         <ol> <li>R. Tri Priyono dkk. 2023. Project-based entrepreneurial learning (PBEL): a blended model for startup creations at higher education institutions. <i>Journal of Innovation and Entrepreneurship</i>.</li> <li>Syaiful Haq, Nizwardi, Jalinus dkk. 2024. Entrepreneurship Project-Based Practical Learning Model: Development and Implementation. <i>TEM Journal</i></li> </ol> </li> <li>Alfia Anesya Putri Difa dkk. 2025. The Influence of Entrepreneurial Learning Based on Project-Based Learning and Self-Efficacy on Vocational Students' Interest in Entrepreneurship. <i>International Journal of Entrepreneurial Knowledge</i>.</li> </ol>					
Lecturer Name Guardian	<ol> <li>Rini Rita T. Marpaung, S.Pd., M.Pd.</li> <li>Mufidah, S.Pd., M.Pd.</li> </ol>					
Subject prerequisites (if any)	-					

Week	Sub-CPMK (Planned final	Study Materials	Learning Forms and	Estimat	Student	Evaluation			
	capability)	(Learning Materials)	Methods [Learning Media & Resources]	ed Time	Learning Experience	Criteria & Forms	Indicator	Weig (%)	
1	2	3	4	5	6	7	8	9	

I	Introduction to the project-based entrepreneurship course in biology	Study contract  Scope of Project-Based Entrepreneurship in Biology	<ul> <li>Lectur es,     Discus sions</li> <li>Media: Video</li> <li>Materi als: ppt</li> </ul>	<ul> <li>e-learnin</li> <li>V Class</li> <li>Media:     Video,     ppt</li> <li>Learning     Resource     s: e-book</li> </ul>	Face to Face (TM) 2 x 50'	Student presentations, class discussions and lecturer confirmation	Mid-term written test     Structured assignment assessment	<ol> <li>Submitting the study contract</li> <li>Explaining the material and scope of the lecture</li> <li>Dividing the work group</li> <li>Direct</li> <li>V-Class Settings</li> <li>Menjelaskan konsep dasar kewirausahaan berbasis         Proyek biologi .     </li> </ol>	5
II	Analyze market dynamics and map the competitive landscape	Market dynamics	<ul> <li>Lectur es,     Discus sions</li> <li>Media:     Video</li> <li>Materi als:     ppt</li> </ul>	<ul> <li>e-learnin</li> <li>V Class</li> <li>Media: Video, ppt</li> <li>Learning Resource s: e-book</li> </ul>	Face to Face (TM) 2 x 50'	Student presentations, class discussions and lecturer confirmation	<ul> <li>Mid-term written test</li> <li>Structured assignment assessment</li> </ul>	<ol> <li>Present the market size, CAGR, and segmentation; with transparent calculations.</li> <li>Provide a concise sheet showing the market size, CAGR, and segmentation; with transparent calculations.</li> </ol>	10
III and IV	Analyze the value proposition & business model.	Value proposition & business model	<ul> <li>Lectur es,     Discus sions</li> <li>Media: Video</li> <li>Materi als: ppt</li> </ul>	<ul> <li>e-learnin</li> <li>V Class</li> <li>Media:     Video,     ppt</li> <li>Learning     Resource     s: e-book</li> </ul>	Face to Face (TM) 2 x 50'	Student presentations, class discussions and lecturer confirmation	<ul> <li>Mid-term written test</li> <li>Structured assignment assessment</li> </ul>	1. Identify priority segments with clear personas (needs, context, behaviors). 2. Outline intergenerational issues (the current generation's responsibility to future generations), regulatory considerations (PIRT/BPOM/SNI/halal), biosafety, licensing/permits, and process timelines.	10

attitude 2. The CP consists 3. Course learning	ing of aspects of attitude, gei	I skills according to the umber of learning outco neral skills, special skil that is specifically desc	stuctopprogromes Material Is and Isnow ribe of the state	am lessouteaned to prograthograduate ledge. he CPL that is assign	hrough the loss (CPL-PRC)	earning process. DI) which are used ourse, and is specific	to form/develop a c	2 Analyze the success metrics ourse and clearly define how they ial or will be demonstrated/validated.	5
Vat each	learning stage, and is specificant Criteria are benchmark	ic to the learning mater	rial of the cou	irse.					
criteria IX and 6. The ass perform	are guidelines für assessors resident indicators för the a naprodolesmasod telaming tes (PSF).	to ensure consistent an pility in the process and u <b>hstation</b> mp <b>art</b> ied by ev awal	d unbiased a Lectures I results of st Discussi ons Media:V ideo Material s: ppt	Sessment Criteria     Class     Media:     Video,     ppt     Learning     Resource     s: e-book	can be quanted face to specific and Face (TM) 2 x 50'	titative of qualitative Student measurable stateme presentations, class discussions and lecturer confirmation	• Final Exam nts that identify the Written Test • Structured assignment assessment	1. Explain the PSF criteria ability of 2. Analyze problem—solution alignment 3. Analyze economic value 4. Analyze quality control (QC) and experimental controls 5. Analyze safety, waste, and emergency response	5
XI	Analyze the biology lab SOPs	Biology Laboratory SOPs (Standard Operating Procedures)	Lectures, Discussi ons Media:V ideo Material s: ppt	<ul> <li>e-learnin</li> <li>V Class</li> <li>Media: Video, ppt</li> <li>Learning Resource s: e-book</li> </ul>	Face to Face (TM) 2 x 50'	Student presentations, class discussions and lecturer confirmation	<ul> <li>Final Exam         Written Test</li> <li>Structured         assignment         assessment</li> </ul>	Analyze risks & biosafety     Analyze materials & reagents     Analyze equipment & calibration     Analyze procedural steps & critical control points (CCPs) .	5
XII	Explain policy and economic instruments:	Policy & Economic Instruments	Lectures, Discussi ons	<ul><li> e-learnin</li><li> V Class</li><li> Media:</li></ul>	Face to Face (TM) 2 x	Student presentations, class	<ul><li>Final Exam Written Test</li><li>Structured assignment</li></ul>	Explain the basic concepts of environmental economic	

## **Assessment Rubric**

In determining the final value, the weighting percentage is based on the following:

Assessment Components	Percentage Value (%)
1. Mid-term exam	20
<ul><li>2. Final Exam</li><li>3. Discussion and presentation</li></ul>	20
activities	20
<ul><li>4. Group Project</li><li>5. Independent Project</li></ul>	20
6. Attendance (minimum 80%	15
attendance at lectures)	5
Amount	100

# Kisi-Kisi Soal Ujian Tengah Semester

NO	Learning Outcomes	Questions	Bloom's Taxonomy
1	Analyze market dynamics and map the competitive landscape.	Indonesia's probiotic beverage market grew from IDR 1.20 trillion (2021) to IDR 1.728 trillion (2024). a) Calculate the CAGR for 2021→2024. b) Write 2 opportunity insights + 1 risk, briefly, based on data.	Analyzing (C4)
		2. Buat BMC v1 untuk solusi bio berbasis proyek Anda dengan menuliskan 4 blok inti berikut dan keterkaitannya: Customer Segments, Value Proposition, Channels, Revenue Streams.	Analyzing (C4)
2	Analyze market dynamics and map the competitive landscape.	3. Case: You are developing a bioplastic product made from cassava waste. The initial target is university students and eco-friendly communities on campus. Questions: a) Draft a Unique Value Proposition (UVP) in 1–2 specific and measurable sentences. b) Link the UVP. tersebut dengan Jobs—Pains—Gains dari segmen target. c) Determine one initial success metric to measure the validity of the UVP.  4. Case: Your team has prepared a BMC for a liquid organic fertilizer product. Initial validation data show: 65% of respondents are willing to try at a price of IDR 25,000 per liter. Only 20% of farmers would repurchase if	Synthesis (C5)

	distribution is online-only.  Questions:  a) What are the implications of these findings for the Value Proposition and Channels? b) Propose two improvement strategies for the BMC based on the data.	Evaluating (C6)
--	---	-----------------

# Kisi-Kisi Soal Ujian Akhir Semester

NO	Learning Outcomes	Questions	Bloom's Taxonomy
1	Menganalisis Problem–Solution Fit (PSF)	1. Pasar minuman probiotik Indonesia tumbuh dari IDR 1,20 T (2021) menjadi IDR 1,728 T (2024). a) Hitung CAGR 2021→2024. b) Tulis 2 insight peluang + 1 risiko berbasis data singkat.	Analyzing (C4)
		2. Sebuah tim mengembangkan produk biofertilizer cair. Data validasi pasar awal: 15 wawancara: 40% responden menyatakan akan sangat kecewa jika produk tidak tersedia.	Evaluating (C6)

		Landing page: 1.000 kunjungan → 120 sign-up (12%). WTP: 55% setuju dengan harga target. SUS (System Usability Scale) uji demo: 74. Pertanyaan: a) Analisis apakah PSF awal tercapai, sebutkan ambang batas yang Anda gunakan. b) Jelaskan implikasi data ini pada perbaikan UVP & BMC. c) Rekomendasikan dua langkah validasi berikutnya.	
			Analyzing (C4)
			Evaluating (C6)
2	Explain Policy & Economic Instruments	You areasked to create a laboratory SOP for producing a probiotic yogurt prototype.Provide a comparative explanation of the following three economic instruments to support eco-friendly biology-based businesses:  1. Carbon Tax 2. Emissions Trading System (ETS/Cap-and-Trade) 3. Green Financing Questions: a) Define each instrument. b) Compare their mechanisms, advantages—disadvantage s, and impacts on production costs. c) Provide implementation scenarios for biotech-based ventures (e.g., bioenergy, biomaterials, or organic fertilizers).	Analyzing (C4)  Evaluating (C6)