Tabel 1.1.B. 2 Linkage between PLO, SSC ASIIN, Modules of AEC SP

Program learning outcomes	SSC	Module	CLO	Type of assessment (oral presentation, report, written exam, etc.)	teaching and Learning Activities (lectures, projects etc.)
PLO 1. Have a commitment to ethics and professional responsibility, high integrity, democratic, ethical, able to work together, and willing to learn throughout life.	SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions SSC 24. Recognize the need for lifelong self-learning and be qualified to do so	Introduction to Precision Agriculture	<ol> <li>Explain the concept of precision agriculture: definition, scope, interactions, process cycles, methods and tools</li> <li>Analyzing agricultural development in the era of the Industrial Revolution 1.0 to. 4.0 and society 5.0</li> <li>Discuss the opportunities and challenges of implementing precision agriculture at global and national levels.</li> <li>Assessing the readiness of agricultural human resources in the development of precision agriculture in Indonesia</li> </ol>	Case method (30%) Team Based Projects (20%) Tasks (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - case method
	SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  SSC 22. Feel obligated to act in accordance with	Botany	<ol> <li>Explanation of the role of Botany in agricultural science, occurrence and characteristics</li> <li>Mastering material regarding morphology, physiology and anatomy of plants</li> </ol>	Written test (40%) Task presentation (40%) Group project report (20%)	<ul><li>Discussion</li><li>case method</li><li>Project based team</li></ul>

professional ethics and responsibilities and practical engineering standards  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so  SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so	religious education	<ol> <li>Mention the characteristics and roles of plants that are fundamental to the morphology, physiology and anatomy of plants and the chemical processes that occur in plants</li> <li>Identifying plants both in morphology, physiology and anatomy</li> <li>Islamic Religion Courses are University Compulsory Courses that must be taken by all students. Islam is a personality development subject that is based on cognitive abilities, affective and psychomotor simultaneously, and with a very broad range of competencies in Islam touching various aspects of scientific disciplines, disciplines of attitudes and morals, because of</li> </ol>	Case method (40%) Tasks (10%) Quiz (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - case method - Project based team
		that religion is the basis for calling for all educational goals.		
SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and	Social Science Research Methods	1) Students can explain concepts and carry out quantitative research procedures 2) Students can explain concepts and carry out qualitative research procedures	individual test (40%) group projects (60%)	<ul><li>Lecture</li><li>Discussion group</li><li>Assignment</li></ul>

practical engineering standards  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so				
SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards	Mass communication	<ol> <li>able to describe and abstract the meaning, characteristics, functions, elements and barriers of mass communication and relate them to the effects of mass communication</li> <li>Students are able to identify and distinguish basic models and theories</li> <li>Students are able to conclude understanding and interpret the global village phenomenon, New Media</li> <li>Able to describe the press and journalism in mass communication and design news presented in the mass media.</li> </ol>	Written test (40%) Task presentation (40%) Group project report (20%)	<ul> <li>Discussion</li> <li>Case Method</li> <li>Presentation         Project based team     </li> </ul>
SSC 21. Qualified to apply various methods to communicate effectively with the scientific	Organization and Leadership	Can apply logical, critical, systematic, and innovative thinking in the context of developing or applying science and technology that pays attention to and applies	Team-based projects (50%) Tasks (5%) Quiz (5%) MIDTERM EXAM (20%)	<ul><li>Discussion</li><li>Presentation</li><li>Project Based</li><li>Team.</li></ul>

community and society as a whole  SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so		humanities values according to their field of expertise.  2) Be able to make the right decisions in the context of solving problems in their area of expertise based on the results of information and data analysis.	
ssc 4. Know the legal regulations related to extension science and community empowerment in agriculture  ssc 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  ssc 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards	Training Management	1) Students can understand and apply the concepts of HR development in organizations, employee performance 2) Students can understand the Description Model and Training Strategy, Types and types of Human Learning, TNA (Training Need Assessment), and Job Analysis procedures; 3) Students prepare Learning Designs (Learning Plans) and Learning Principles in Training, Training Strategies, Facilitators, Media, materials and tools in training;	<ul> <li>Discussion</li> <li>Presentation</li> <li>Project Based Team.</li> </ul>

SSC 24. Recognize the need for lifelong self-learning and be qualified to do so		4) Students can evaluate the process and results of training
SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards	Economic Sociology	1) Able to describe and explain theoretical approaches to economic phenomena based on a sociological point of view 2) Able to analyze the application of economic behavior in people's lives 3) Able to discuss alternative economic behavior that does not only consider economic aspects 4) Able to discuss and analyze economic behavior at the global level  Individual test (40%) - Presentation - Case study  (60%)  Able to discuss alternative economic aspects
SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards	Business communicatio n	1) Able to analyze elements, forms, and effectiveness of business communication 2) Able to analyze internal and external business communication strategies 3) Able to analyze effective business correspondence 4) Able to design messages by applying business correspondence techniques 5) Able to design business presentations  - Written test (40%) - Presentation Project Based Team.  - Group project report (20%)

SSC 24. Recognize the need for lifelong self-learning and be qualified to do so		<ul><li>6)</li><li>7)</li></ul>	Able to analyze integrated marketing communication of business organization products Able to analyze public relations practices for business organizations			
SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so	Agricultural Communicatio ns	<ol> <li>2)</li> <li>3)</li> </ol>	Understand the elements of communication, types of communication, forms of communication, advantages and disadvantages of various communication media and information technology.  Understand innovation and innovation diffusion, and analyze various cases of innovation diffusion in agriculture  Can analyze the needs of stakeholders and communication media used to solve problems in agricultural development  Able to communicate innovations in agriculture in accordance with the needs of stakeholders by using relevant information technology and communication media	- Case method (25%) - Team Based Projects (25%) - Tasks (10%) - MIDTERM EXAM (20%) - FINALEXAM (20%)	-	Discussion case method Project based team

SSC 4. Know the legal	Real Work	1)	Realizing one of the Tri	Observation,	-	case method
regulations related to	Lecture		Dharma of Higher Education,	participation,		team based
extension science and	Program (KKN)		namely the field of	performance		project
community empowerment			community service.	(10%)		
in agriculture		2)	Assist students in applying	Performance		
			science, technology, and art	(50%)		
SSC 8. Qualified to plan and			that are learned directly	Performance, oral		
conduct appropriate			according to theory so that it	exam (40%)		
experiments, interpret		_	benefits society	CAUTT (1070)		
data, and draw conclusions		3)	Train students to learn			
SSC 21. Qualified to apply			together with the community			
various methods to			to participate and contribute			
communicate effectively		۵١	to development.			
with the scientific		4)	Assisting community			
community and society as			empowerment through the			
a whole			application of science, technology, and art.			
a whole		5)	<del>-</del> •			
SSC 22. Feel obligated to		رد	Equipping students with the ability to approach the			
act in accordance with			community and shape			
professional ethics and			attitudes and behavior to			
responsibilities and			always be sensitive to the			
practical engineering			problems faced by the			
standards			community			
CCC 24 December the condi		6)	· ·			
SSC 24. Recognize the need		,	experiences in community life			
for lifelong self-learning		7)	Mature personality			
and be qualified to do so			traits and broaden			
			students' horizons			
		8)	Community empowerment			
			through various aspects of			
			development as an effort to			
			achieve prosperity			

SSC 4.	Know the legal	Apprenticeship	1) Students can understand	Observation,	- case method,
regulat	ions related to		and practice every	participation,	- team based
extensi	ion science and		activity in partner	performance	project
commu	unity empowerment		institutions	(10%)	
in agric	culture		2) Students are able to work in	Performance	
			teams, both among	(50%)	
	Qualified to plan and		participants and with staff at	Doutoussanas anal	
conduc	ct appropriate		partner institutions with	Performance, oral	
experir	ments, interpret		different scientific	exam (40%)	
data, a	nd draw conclusions		backgrounds		
			3) Students will get used to		
	Qualified to apply		accepting differences of		
various			opinion, be able to adapt to		
	unicate effectively		a new environment and		
with	the scientific		reduce egoism and even		
commu	unity and society as		arrogance motivated by		
a whol	e		different disciplines.		
			4) Students have an impact on		
	2. Feel obligated to		improving aspects related to		
	accordance with		the development of		
'	sional ethics and		attitudes		
respon	sibilities and		5) Internship activities can also		
practic	al engineering		train sensitivity to identify		
standa	rds		problems, find alternative		
556.24	December 1		solutions through an		
	. Recognize the need		interdisciplinary approach,		
	long self-learning		in order to improve their		
and be	qualified to do so		intellectual abilities.		
SSC 4.	Know the legal	Thesis	Students are able to master the	Observation,	- case method,
regulat	ions related to		concepts and applications of food	participation,	- team based
-	ion science and		science and technology in an	performance	project
			integrated manner to solve	(10%)	-

community empowerment in agriculture  SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so	Comings	problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources and communicate it verbally in proposal seminars and results seminars and communicate it in writing in the form of a thesis that is arranged systematically discussing data phenomena using precise and accurate references	Performance (50%) Performance, oral exam (40%)	
ssc 4. Know the legal regulations related to extension science and community empowerment in agriculture ssc 8. Qualified to plan and conduct appropriate	Seminar	Students are able to master the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of	Observation, participation, performance (10%) Performance (50%) Performance, oral	<ul> <li>case method</li> <li>team based</li> <li>project</li> </ul>

	experiments, interpret data, and draw conclusions  SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so		local food resources and communicate it verbally in proposal seminars and results seminars and communicate it in writing in the form of a thesis that is arranged systematically discussing data phenomena using precise and accurate references	exam (40%)	
PLO 2.Mastering science and technology in agriculture in general (technical, economic, and social) and able to formulate procedural and comprehensive solutions to agricultural development problems.	SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture	Botany	<ol> <li>Explain of the role of Botany in agricultural science, occurrence and characteristics</li> <li>Mastering material regarding morphology, physiology and anatomy of plants</li> <li>Mention the characteristics and roles of plants that are fundamental to the morphology, physiology and anatomy of plants and</li> </ol>	Written test (40%) Task presentation (40%) Group project report (20%)	- Discussion - case method Project based team

SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture	Rural Sociology	the chemical processes that occur in plants  4. Identifying plants both in morphology, physiology and anatomy  1) Students can understand the basic characteristics of farmers at the level of cultural structure and relate them to the analysis of the role of technological innovation.  2) Students can understand the development, as well as the values and behavior of farmers in carrying out their household economic activities.  3) Students can analyze developments and improve the quality of life of farmers and explain agricultural institutions in rural areas.	Individual test (20%) Project group (30%) Case study (20%)	- Discussion - case method - Project based team
SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines  SSC 2. Has comprehensive knowledge in agricultural extension and communication disciplines	Agricultural Extension	Students can explain the meaning of extension, agricultural extension policies and institutions, philosophy and principles of agricultural extension, benefits, diffusion and adoption of agricultural innovations, decentralization of agricultural extension and revitalization and privatization of agricultural extension.	Individual tasks (20%) Group assignments (20%) project (60%)	Discussions, Presentations, Project based Teams.

including innovation knowledge in extension and communication disciplines				
SSC 3. Knowing the concept and identification of problems in improving the quality of agricultural extension/community empowerment in the field				
SSC 4. Know the legal regulations related to extension science and community empowerment in agriculture				
SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture				
SSC 26. Proficient in the field of communication, for example in making presentations or moderating				
SSC 1. Know and understand the principles	Agricultural Extension	· '	Individual tasks (20%)	- Discussion - case method

of social science,	philosophical and	Group - Project based
economics, and agricultural	psychological foundations,	assignments team
engineering which form	classification of agricultural	(20%)
the basis of extension	extension methods and	project (60%)
disciplines	techniques as well as the	
·	basic considerations for	
SSC 2. Has comprehensive	selecting agricultural	
knowledge in agricultural	extension methods and	
extension and	techniques	
communication disciplines	2) Students are able to design	
including innovation	Home Visit/Cultivating	
knowledge in extension	Techniques, Inquiry, Informal	
and communication	Contact, Exemplary Farmers,	
disciplines	and Flag Fields, Technical	
	School Fields, Farmers' Day	
SSC 3. Knowing the	Fields, Clinics, Field Trips,	
concept and identification	Serving Engineering Platforms, Talkshows,	
of problems in improving	Business Gatherings, and	
the quality of agricultural	Study Gathering and	
extension/community	Evaluation (MIDTERM	
empowerment in the field	EXAM).	
CCC 4 Know the level	3) Students are able to explain	
SSC 4. Know the legal	and design Counseling	
regulations related to	Methods and Techniques	
extension science and	through Print and Graphic	
community empowerment	Media	
in agriculture	4) Students are able to	
SSC 5. Have awareness of	understand Extension	
multidisciplinary contexts	Methods and Techniques	
in the fields of counseling,	through Electronic media,	
J.	Radio streaming, Film	
communication, sociology,	Screening, Television,	

psychology, education and sustainable agriculture  SSC 26. Proficient in the field of communication, for example in making presentations or moderating		Internet, Campaigns and Exhibitions		
SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture  SSC 25. Have competency in accordance with the discipline in management and marketing, especially project management, acquisition, personnel management, and control  SSC 26. Proficient in the field of communication, for example in making presentations or moderating	Applied Statistics	CLO 1:  1) Understand data scales and their differences, choose appropriate tests, and understand the rules of all non-parametric tests CLO 2:  2) Analyzing various cases with non-parametric tests: Wilxoson test, Kruscal Wallis, Friedman, Median, Sign test, Mc Nemar, Cocran, Chai Squares, Contingent C Correlation, Spearman Rank, Kendall, Logistic Regression CLO 3:  3) Understand the definition, elements of experimental design, Statistics in Scientific Methods, requirements for parametric tests, and be able to distinguish between types of tests in experimental designs: data normality test, Completely	teams (30%) - Tasks (10%) - MIDTERM EXAM (20%)	- Discussion - case method - Project based team.

		Randomized Design (CRD), Completely Randomized Design (RAKL), Latin square design (RBSL) ) with ANOVA test, non-parametric different test for Completely Randomized Design (CRD) and Completely Randomized Design (RAKL), problematic data, multiple comparison test, relative efficiency CLO 4: 4) Analyzing various parametric test cases: data normality test, Completely Randomized Design (CRD), Completely Randomized Design (RAKL), Completely Randomized Design (RBSL) with ANOVA test, non-parametric differential test for Completely Randomized Design (CRD) and Completely Randomized Design ( RAKL), problematic data, multiple comparison tests, relative efficiency, interpretation and conclusion	
SSC 3. Knowing the concept and identification of problems in improving the quality of agricultural extension/community empowerment in the field	Dynamics of Rural Development	1) Contributing to improving the quality of life in society, nation, state, and progress of civilization based on Pancasila  2) Able to understand the theory of communication  Case method (30%)  Team Based Projects (20%)  Tasks (10%)  Quiz (10%)  MIDTERM EXAM	Discussion Case study

SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture			in planning and developing innovation efforts	(15%) FINALEXAM (15%)		
SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture  SSC 23. Be aware of project management methods and business practices such as risk and change management and understand their limitations	Social psychology	3)	Students understand and discuss psychoanalytic theories Students can explain psychometric concepts such as social cognition, social perception and influencing factors, attitudes and attitude forming factors, attitude measurement Students can explain the concept of setbacks and their impact and how to overcome them, the need for motivation theory, expected motivation theory, individual and group, Students can understand aggression and its effects and how to overcome them, altruism, and social learning and its stages	Case method (50%) Tasks (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	-	Discussion case method

SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture  SSC 25. Have competency in accordance with the discipline in management and marketing, especially project management, acquisition, personnel management, and control  SSC 26. Proficient in the field of communication, for example in making presentations or moderating	Statistics	<ol> <li>Students can explain and compile descriptive statistics</li> <li>Students can explain inferential statistics, present data, perform quantitative analysis of data sets, interpret and draw conclusions</li> </ol>	- Case method (20%) - Project-based teams (30%) - Tasks (10%) - MIDTERM EXAM (20%) - FINALEXAM (20%)	- Discussion - case method - Project based team
SSC 3. Knowing the concept and identification of problems in improving the quality of agricultural extension/community empowerment in the field SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology,	Community development	<ol> <li>Explain the meaning and scope, philosophy, and principles of community development.</li> <li>Explain the methods and steps of community development.</li> <li>Explain facilitation and community development themes.</li> <li>Describe the application of community development.</li> </ol>	Individual tasks (20%) Group assignments (20%) Project group (60%)	- Discussion - case method Project based team

psychology, education and sustainable agriculture  SSC 26. Proficient in the field of communication, for example in making presentations or moderating				
SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines	Agricultural Science	<ol> <li>Fundamental concepts for problem solving in agribusiness</li> <li>Business and management concepts to manage agribusiness partially or integratedly</li> <li>Entrepreneurship concept integrated to design and operate agribusiness partially and integratedly</li> <li>Able to study independently</li> <li>Able to prepare descriptions of scientific study results based on scientific studies</li> <li>Able to take responsibility for violations of group work results, carry out supervision, and evaluate performance</li> <li>Able to practice business in agriculture</li> </ol>	Case Study (10%) Project Based (40%) cake (5%) Paper Assignment (5%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - case method - Project based team

SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture  SSC 23. Be aware of project management methods and business practices such as risk and change management and understand their limitations  SSC 26. Proficient in the field of communication, for example in making presentations or moderating	Business communicatio n	1) Able to analyze elements, forms, and effectiveness of business communication 2) Able to analyze internal and external business communication strategies 3) Able to analyze effective business correspondence 4) Able to design messages by applying business correspondence techniques 5) Able to design business presentations 6) Able to analyze integrated marketing communication of business organization products 7) Able to analyze public relations practices for business organizations	<ul> <li>Discussion</li> <li>case method</li> <li>Presentation</li> <li>Project based team.</li> </ul>
SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines  SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology,	Introduction to Precision Agriculture	Case method (30%) Team Based precision agriculture: definition, scope, interactions, process cycles, methods and tools  Analyzing agricultural development in the era of the Industrial Revolution 1.0 to. 4.0 and society 5.0  Discuss the opportunities and challenges of implementing	- Discussion - case method

psychology, education and sustainable agriculture		8)	precision agriculture at global and national levels. Assessing the readiness of agricultural human resources in the development of precision agriculture in Indonesia			
SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines	Fundamentals of Soil Science	1) 2) 3)	Able to understand the meaning of soil, understand the weathering process of parent material and soil forming factors Able to assess the physical, chemical, and biological properties of soil Able to identify the main soil types in Indonesia	Case method (30%) Team Based Projects (20%) Tasks (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	- - -	Discussion case method Presentation Project based team.
SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines	Agrotechnolog y	<ol> <li>2)</li> <li>3)</li> <li>4)</li> </ol>	Able to understand the meaning, philosophy, principles, and position of Agricultural Extension Be able to explain the role of extension workers in the diffusion of agricultural innovations Able to understand the Agricultural Extension Learning Processes Able to play and synthesize the implementation of Agricultural Extension	Case method (30%) Team Based Projects (20%) Tasks (10%) MIDTERM EXAM (20%) FINALEXAM (20%)		Discussion case method Presentation Project based team.

1						
SSC 5. Have awareness of	Personal	1)	Able to explain and understand	Written test	-	Discussion
multidisciplinary contexts	communicatio		the meaning and importance of	(40%)	-	case method
in the fields of counseling,	n		personal communication;	Task presentation	-	Presentation
communication, sociology,			communication principle	(40%)	-	Project based
psychology, education and		2)	Be able to explain social	Group project		team.
sustainable agriculture			processes and social	report (20%)		
			interactions 1 (forms of			
SSC 25. SSC 23. Be aware of			communication,			
project management			communication models)			
methods and business		3)	Able to explain social processes			
practices such as risk and			and social interactions 2			
change management and			(Decision-making processes			
understand their			and information flows)			
boundaries		4)	Able to identify and understand			
			oneself in communication			
SSC 26. Proficient in the			(perception)			
field of communication, for		5)	Able to understand and explain			
example in making			yourself in communication			
presentations or			(communication style)			
moderating		6)	Able to explain and understand			
			yourself in communicating			
			(listening)			
		7)	Able to understand and			
			distinguish the concept of			
			verbal and non-verbal			
		_,	communication			
		8)	Able to identify and understand			
			how to improve			
SSC 2. Has comprehensive	Learning	1)	Can explain learning	Individual test	-	Lecture
knowledge in agricultural	Process in		mechanisms: counseling as	(20%)	-	Discussion
extension and	Agricultural		adult education, adult	Project group		group
communication disciplines	Extension		characteristics, and	(20%)		Assignment
including innovation			understanding adult learning	Group		
knowledge in extension			motivation	Performance		
· -						

and communication disciplines  SSC 3. Knowing the concept and identification of problems in improving the quality of agricultural extension/community empowerment in the field  SSC 4. Know the legal regulations related to extension science and community empowerment in agriculture  SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture  SSC 26. Proficient in the field of communication, for example in making presentations or moderating		<ol> <li>explanation of learning theories, and adult learning processes</li> <li>Can determine the use of methods, techniques, media, and tools in Extension</li> <li>Able to design and implement adult learning in counseling</li> </ol>	(60%)	
SSC 1. Know and understand the principles of social science, economics, and agricultural	Plant protection	Understand the importance of Plant Protection in plant cultivation systems	Team-based projects (50%) Tasks (5%) Quiz (5%)	<ul><li>Discussion</li><li>Presentation</li><li>Project Based</li><li>Team.</li></ul>

engineering which form the basis of extension disciplines		<ol> <li>Be able to explain disturbances to plants caused by pests and pathogens</li> <li>Able to explain how to help pests and disease diagnosis so as to determine control measures</li> <li>Able to explain the management of compatible pests and pathogens between physical, biological, chemical and cultural control tactics</li> </ol>	MIDTERM EXAM (20%) FINALEXAM (20%)	
SSC 3. Knowing the concept and identification of problems in improving the quality of agricultural extension/community empowerment in the field SSC 4. Know the legal regulations related to extension science and community empowerment in agriculture	Agricultural Development	<ol> <li>Able to apply logical, critical, systematic and innovative thinking in context development or implementation of science and technology that pays attention to and applies humanities values according to their field of expertise.</li> <li>Able to make appropriate decisions in the context of solving problems in their field of expertise based on the results of information and data analysis.</li> </ol>	Case method (50%) MIDTERM EXAM (25%) FINALEXAM (25%)	- discussion - present - case study
SSC 23. Be aware of project management methods and business practices such as risk and change management and	Entrepreneurs hip	Encouraging the emergence of an entrepreneurial spirit and mentality with class material and carrying out real business practices in groups	Case method (20%) Team Based Projects (30%) Tasks (10%) Quiz (10%) MIDTERM EXAM	<ul><li>Discussion</li><li>case method</li><li>Project based team.</li></ul>

understand their limitations			(15%) FINALEXAM	
SSC 25. Have competency in accordance with the discipline in management and marketing, especially project management, acquisition, personnel management, and control SSC 26. Proficient in the field of communication, for example in making presentations or moderating			(15%)	
SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines  SSC 26. Proficient in the field of communication, for example in making presentations or moderating	Scientific Method	This course explains reasoning, thinking scientifically, gaining knowledge, using scientific thinking tools, analytical thinking to identify root causes, and formulate problems and take initiatives to find solutions scientifically in Agricultural Extension and Communication sciences, and prohibits basic skills in thinking and communicating thoughts, ideas, ideas scientifically.	Case method (25%) Team-based projects (25%) Tasks (5%) Quiz (5%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - case method - Project based team.

SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines	Agroclimatolog y	·	Able to understand the meaning of Agroclimatology and elements of weather/climate Understand the role of the weather elements in agriculture Able to understand and apply microclimate modification for agriculture Able to understand the effect of global warming and climate change on agriculture	Case Method (25%) Team Based Projects (25%) Tasks (5%) Quiz (5%) MIDTERM EXAM (20%) FINALEXAM (20%)	-	Discussion case method Project based team.
ssc 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines  ssc 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture	Sustainable Agriculture System	<ul><li>1)</li><li>2)</li><li>3)</li><li>4)</li></ul>	Explain the meaning and scope of sustainable agriculture and include it in sustainable agricultural development Mastering sustainable principles and integrated crop management Mastering and understanding the optimization of environmental and bioenergy factors in sustainable sustainability Understand and be able to apply sustainable principles in market development	Case method (10%) Team Based Projects (10%) Tasks (20%) MIDTERM EXAM (30%) FINALEXAM (30%)	1 1 1	Discussion case method Project based team.
. SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form	Information Technology and Multimedia	1)	Able to apply logical, critical, systematic and innovative thinking in the context of the development or application of science and technology that	Case method (10%) Team Based Projects (40%) Tasks (20%)	- - -	Discussion case method Project based team.

1						
the basis of extension			pays attention to and applies	MIDTERM EXAM		
disciplines			human values according to	(15%)		
			their field of expertise	FINALEXAM		
SSC 5. Have awareness of		2)	Mastering special knowledge	(15%)		
multidisciplinary contexts			and technology in the field of			
in the fields of counseling,			counseling and Agricultural			
communication, sociology,			Communication in the			
psychology, education and			framework of community			
sustainable agriculture			empowerment based on being			
			used as organizers, innovators,			
SSC 26. Proficient in the			educators, creators, dynamists,			
field of communication, for			facilitators, motivators and			
example in making			catalysts who have high			
presentations or			excellence, democracy, ethics			
moderating			and are able to work together			
			in the framework of			
			community transformation.			
		3)	Contributing to improving the			
		′	quality of life in society, nation,			
			state, and progress of			
			civilization based on Pancasila			
		4)	Able to utilize information			
		′	technology as a means of			
			dialogical communication,			
			organize and develop			
			community capacity in order to			
			build progressive agriculture			
		5)	Able to find, process and			
		'	communicate innovations to			
			stakeholders or beneficiaries			
			effectively and efficiently;			
SSC 5. Have awareness of	Local Wisdom	1)	explains the meaning of Rural	Written test	-	Discussion
multidisciplinary contexts	of Rural	′	Community Local Wisdom,	(40%)	_	case method
in the fields of counseling,	Communities		functions, elements, forms and	Task presentation		
			, , , , , ,	· ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		

psychology, education and sustainable agriculture  SSC 23. Be aware of project management methods and business practices such as risk and change management and understand their limitations  SSC 26. Proficient in the field of communication, for example in making presentations or moderating  SSC 26. Proficient in the field of communication or moderating  Analyzing the effectiveness of Local Wisdom of Rural Communities and how to increase the effectiveness of Local Wisdom of Rural Communication using indicators of Local Wisdom of Rural Communication using indicators of Local Wisdom of Rural Communities  SSC 3. Knowing the concept and identification  Transformation  Local Wisdom, Cultural frequency and family interaction and information flow for non-verbal communication in communication with different cultures and the ethics of communication with different cultures  3) Analyzing the effectiveness of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the concept and identification from the family interaction in communication with different cultures  2) Define and classify non-verbal communication in communication with	communication, sociology,			processes of Rural Community	(40%)	<u> </u>	Project based
and information flow for farmers  2) Define and classify non-verbal communication, the nature of non-verbal communication and the role and function of non-verbal communication in communication with different cultures and the ethics of communication with different cultures and the ethics of communication or moderating  3) Analyzing the effectiveness of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities  5SC 3. Knowing the  Social 1. Able to understand theoretical Written test - discussion	psychology, education and			Local Wisdom, Cultural	Group project		team.
SSC 23. Be aware of project management methods and business practices such as risk and change management and understand their limitations  SSC 26. Proficient in the field of communication, for example in making presentations or moderating  Moderating  SSC 26. Proficient in the study of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communication using indicators of Local Wisdom of Rural Communities  SSC 3. Knowing the  SSC	sustainable agriculture			Structure and family interaction	report (20%)		
management methods and business practices such as risk and change management and understand their limitations  SSC 26. Proficient in the field of communication, for example in making presentations or moderating  Management methods and business practices such as risk and change management and understand their limitations  31. Analyzing the effectiveness of Local Wisdom of Rural Communities and how to increase the effectiveness of Local Wisdom of Rural Communities  42. Define and classify non-verbal communication and the role and function of non-verbal communication in communication with different cultures and the ethics of communication with different cultures  33. Analyzing the effectiveness of Local Wisdom of Rural Communities and how to increase the effectiveness of Local Wisdom of Rural Communities  44. Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social 1. Able to understand theoretical Written test - discussion	_			and information flow for			
business practices such as risk and change management and understand their limitations  SSC 26. Proficient in the field of communication, for example in making presentations or moderating  Moderating  SSC 36. Proficient in the field of communication, for example in making presentations or moderating  SSC 36. Proficient in the field of communication, for example in making presentations or moderating  SSC 36. Proficient in the field of communication with different cultures and the ethics of communication with different cultures  SSC 36. Analyzing the effectiveness of Local Wisdom of Rural Communities and how to increase the effectiveness of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social 1. Able to understand theoretical Written test - discussion				farmers			
risk and change management and understand their limitations  SSC 26. Proficient in the field of communication, for example in making presentations or moderating  Analyzing the effectiveness of Local Wisdom of Rural Communities and how to increase the effectiveness of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  with different cultures and the ethics of communication for commu	management methods and		2)	Define and classify non-verbal			
management and understand their limitations  SSC 26. Proficient in the field of communication, for example in making presentations or moderating  Management and the role and function of non-verbal communication with different cultures and the ethics of communication with different cultures  3) Analyzing the effectiveness of Local Wisdom of Rural Communities and how to increase the effectiveness of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Written test  - discussion	business practices such as			communication, the nature of			
understand their limitations  SSC 26. Proficient in the field of communication, for example in making presentations or moderating  Analyzing the effectiveness of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Wind in the study of Local Written test  Non-verbal communication in communication with different cultures and the ethics of communication in communication with different cultures  3. Analyzing the effectiveness of Local Wisdom of Rural Communities  4. Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities  4. Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities  4. Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities  4. Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities  4. Design a message design for Agricultural Innovation Using indicators of Local Wisdom of Rural Communities  4. Design a message design for Agricultural Innovation Using indicators of Local Wisdom of Rural Communities  4. Design a message design for Agricultural Innovation Using Innovation	risk and change			non-verbal communication and			
limitations    Communication with different cultures and the ethics of communication with different cultures and the ethics of communication with different cultures   SSC 26. Proficient in the field of communication, for example in making presentations or moderating   Sanalyzing the effectiveness of Local Wisdom of Rural Communities and how to increase the effectiveness of Local Wisdom of Rural Communities	management and			the role and function of			
cultures and the ethics of communication, for example in making presentations or moderating  Communication with different cultures  3) Analyzing the effectiveness of Local Wisdom of Rural Communities and how to increase the effectiveness of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Written test  - discussion	understand their			non-verbal communication in			
SSC 26. Proficient in the field of communication, for example in making presentations or moderating  3) Analyzing the effectiveness of Local Wisdom of Rural Communities and how to increase the effectiveness of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Wisdom of Rural Wisdom of Rural Communities  Written test - discussion	limitations						
field of communication, for example in making presentations or moderating  3) Analyzing the effectiveness of Local Wisdom of Rural Communities and how to increase the effectiveness of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Written test  - discussion							
example in making presentations or moderating  3) Analyzing the effectiveness of Local Wisdom of Rural Communities and how to increase the effectiveness of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Written test  - discussion							
presentations or moderating  Local Wisdom of Rural Communities and how to increase the effectiveness of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Written test - discussion	field of communication, for						
moderating  Communities and how to increase the effectiveness of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Written test - discussion	example in making		3)				
increase the effectiveness of Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Written test - discussion	presentations or						
Local Wisdom of Rural Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Written test  - discussion	moderating						
Communities  4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Written test - discussion							
4) Design a message design for Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the Social 1. Able to understand theoretical Written test - discussion							
Agricultural Innovation Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Written test - discussion			١.,				
Communication using indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the Social 1. Able to understand theoretical Written test - discussion			4)				
indicators of Local Wisdom of Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical Written test - discussion				· ·			
Rural Communities and designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the  Social  1. Able to understand theoretical  Written test - discussion				8			
designing research methods in the study of Local Wisdom of Rural Communities  SSC 3. Knowing the Social 1. Able to understand theoretical Written test - discussion							
the study of Local Wisdom of Rural Communities  SSC 3. Knowing the Social 1. Able to understand theoretical Written test - discussion							
Rural Communities  SSC 3. Knowing the Social 1. Able to understand theoretical Written test - discussion							
SSC 3. Knowing the Social 1. Able to understand theoretical Written test - discussion							
	SSC 3 Knowing the	Social	1		Writton tost	$\vdash$	- discussion
concept and identification   fransformation   perspectives on social change   case study   - present	ū		1.				
	-	11 0113101111011	2		Case study		- case study
	, , , ,		۲.	•			case study
the quality of agricultural social change and the factors that cause it	the quality of agricultural			_			

extension/community empowerment in the field SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture		Able to analyze opportunities for social change in certain communities/societies/institutions that are based on justice and are sustainable socially, culturally, economically and ecologically.		
SSC 2. Has comprehensive knowledge in agricultural extension and communication disciplines including innovation knowledge in extension and communication disciplines  SSC 3. Knowing the concept and identification of problems in improving the quality of agricultural extension/community empowerment in the field  SSC 4. Know the legal regulations related to extension science and community empowerment in agriculture	Community Participatory Development	<ol> <li>Understand the paradigm of participatory development, the basic concept of participatory development, the dimensions of participatory development participation;</li> <li>Understand the conditions for the growth of community participation, as well as the scope and forms of community participation;</li> <li>Identify obstacles to community participation, factors that influence the success of community participation.</li> <li>Apply designs, methods and techniques to promote community participation and conduct participatory training</li> </ol>	Written test (40%) Task presentation (40%) Group project report (20%)	<ul> <li>Discussion</li> <li>case method</li> <li>Project based team.</li> </ul>

SSC 26. Proficient in the field of communication, for example in making presentations or moderating  SSC 5. Have awareness of multidisciplinary contexts	Real Work Lecture	1) Realizing one of the Tri Observation, - case method, Dharma of Higher Education, participation, - team based
in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture  SSC 23. Be aware of project management methods and business practices such as	Program (KKN)	namely the field of community service.  2) Assist students in applying science, technology, and art that are learned directly according to theory so that it benefits society  3) Train students to learn together with the community
risk and change management and understand their limitations  SSC 25. Have competency in accordance with the discipline in management		to participate and contribute to development.  4) Assisting community empowerment through the application of science, technology, and art.  5) Equipping students with the ability to approach the
and marketing, especially project management, acquisition, personnel management, and control  SSC 26. Proficient in the field of communication, for example in making		community and shape attitudes and behavior to always be sensitive to the problems faced by the community  6) Providing student learning experiences in community life

presentations or moderating		Mature personality traits and broaden students' horizons Community empowerment through various aspects of development as an effort to achieve prosperity		
SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture  SSC 23. Be aware of project management methods and business practices such as risk and change management and understand their limitations  SSC 25. Have competency in accordance with the discipline in management and marketing, especially project management, acquisition, personnel management, and control  SSC 26. Proficient in the field of communication, for example in making	3)	understand and practice every activity in partner institutions Students are able to work in teams, both among participants and with staff at partner institutions with different scientific backgrounds Students will get used to accepting differences of opinion, be able to adapt to a new environment and reduce egoism and even arrogance motivated by different disciplines. Students have an impact on improving aspects related to the development of attitudes	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method - team based project

presentations or		alternative solutions		
moderating		through an		
		interdisciplinary		
		approach, in order to		
		•		
SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture  SSC 23. Be aware of project management methods and business practices such as risk and change management and understand their limitations  SSC 25. Have competency in accordance with the discipline in management and marketing, especially	Thesis	improve their intellectual abilities.  Students understand the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources and communicate them verbally in proposal seminars and yield seminars and communicate them verbally written in the form of a thesis that is arranged systematically discussing data phenomena using appropriate and accurate references	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project
project management,				
acquisition, personnel				
management, and control				
SSC 26. Proficient in the				
field of communication, for				
example in making				

presentations moderating  SSC 5. Have awareness of multidisciplinary context in the fields of counseling communication, sociology psychology, education and sustainable agriculture  SSC 23. Be aware of project management methods and business practices such as risk and change	Seminar	Students understand the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources and communicate them verbally in proposal seminars and yield seminars and	Observation, participation, performance (10%) Performance (50%)  Performance, oral exam (40%)	- case method - team based project
SSC 23. Be aware of project management methods and business practices such as		shelf life, bioactive components, product development and development of local food resources and communicate them verbally in proposal	Performance, oral	

	T	T		
PLO 3.Mastering special science and technology in MEA in the framework of community empowerment based on its role as organizer, innovator, facilitator, motivator, dynamist, creator and catalyst.	SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture	Introduction to Precision Agriculture	L) Explain the concept of precision agriculture: definition, scope, interactions, process cycles, methods and tools  2) Analyzing agricultural development in the era of the Industrial Revolution 1.0 to. 4.0 and society 5.0  3) Discuss the opportunities and challenges of implementing precision agriculture at global and national levels.  4) Assessing the readiness of agricultural human resources in the development of precision agriculture in Indonesia  Case method  (30%)  Team Based  Projects (20%)  MIDTERM  EXAM (20%)  FINALEXAM (20%)  (20%)	od
	SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines	Agrotechnolog y	Able to understand the meaning, philosophy, principles, and position of Agricultural Extension  Be able to explain the role of extension workers in the diffusion of agricultural innovations  Able to understand the Agricultural Extension Learning Processes  Able to play and synthesize the implementation of Agricultural Extension  Case method (30%)  Team Based Projects (20%)  Tasks (10%)  MIDTERM EXAM (20%)  FINALEXAM (20%)  FINALEXAM (20%)	n

SSC 2. Has comprehensive knowledge in agricultural extension and communication disciplines including innovation knowledge in extension and communication disciplines  SSC 3. Knowing the concept and identification of problems in improving the quality of agricultural extension/community empowerment in the field  SSC 4. Know the legal regulations related to extension science and community empowerment in agriculture  SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture  SSC 20. Able to work efficiently both individually and collectively	Learning Process in Agricultural Extension	2)	Can explain learning mechanisms: counseling as adult education, adult characteristics, and understanding adult learning motivation explanation of learning theories, and adult learning processes Can determine the use of methods, techniques, media, and tools in Extension Able to design and implement adult learning in counseling	Individual test (20%) Project group (20%) Group Performance (60%)	Lecture Discussion group Assignment

SSC 1. Know and understand the principles of social science economics, and agricultura engineering which form the basis of extension disciplines	Research Methods	3) Students can explain concepts and carry out quantitative research procedures  4) Students can explain concepts and carry out qualitative research procedures	individual test (40%) group projects (60%)	<ul><li>Lecture</li><li>Discussion group</li><li>Assignment</li></ul>
SSC 1. Know and understand the principles of social science economics, and agricultura engineering which form the basis of extension disciplines		<ol> <li>Identify the basic concepts of human interaction with the environment</li> <li>Discuss human perception of the environment</li> <li>Classify the factors causing the sustainability/unsustainability of human-environment interaction</li> <li>Applying human ecology in development practice</li> </ol>	Individual test (40%) Project group (60%)	- Discussion - Case Method - Presentation
SSC 5. Have awareness of multidisciplinary context in the fields of counseling communication, sociology psychology, education and sustainable agriculture  SSC 20. Able to work efficiently both individually and collectively  SSC 26. Proficient in the field of communication, for	communicatio	1) able to describe and abstract the meaning, characteristics, functions, elements and barriers of mass communication and relate them to the effects of mass communication  2) Students are able to identify and distinguish basic models and theories  3) Students are able to conclude understanding	- Written test (40%) - Task presentation (40%) - Group project report (20%)	- Discussion - Case Method - Presentation - Project based team

example in making presentations or moderating		and interpret the global village phenomenon, New Media  4) Able to describe the press and journalism in mass communication and design news presented in the mass media.
SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines	Plant protection	5) Understand the importance of Plant Protection in plant cultivation systems 6) Be able to explain disturbances to plants caused by pests and pathogens 7) Able to explain how to help pests and disease diagnosis so as to determine control measures 8) Able to explain the management of compatible pests and pathogens between physical, biological, chemical and cultural control tactics
SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines	Organization and Leadership	1) Can apply logical, critical, systematic, and innovative thinking in the context of developing or applying science and technology that pays attention to and applies humanities values according to their field of expertise.  1 Team-based projects (50%) Tasks (5%) Quiz (5%) MIDTERM EXAM (20%) FINALEXAM (20%)  2) Be able to make the right decisions in the context of

SSC 20. Able to work efficiently both individually and collectively  SSC 26. Proficient in the field of communication, for example in making presentations or moderating		solving problems in their area of expertise based on the results of information and data analysis.		
SSC 3. Knowing the concept and identification of problems in improving the quality of agricultural extension/community empowerment in the field SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture SSC 20. Able to work efficiently both individually and collectively	Agricultural Development	<ol> <li>Able to apply logical, critical, systematic and innovative thinking in context development or implementation of science and technology that pays attention to and applies humanities values according to their field of expertise.</li> <li>Able to make appropriate decisions in the context of solving problems in their field of expertise based on the results of information and data analysis.</li> </ol>	Case method (50%) MIDTERM EXAM (25%) FINALEXAM (25%)	- discussion - present - case study
SSC 1. Know and understand the principles of social science, economics, and agricultural	Human Ecology	Mastering science and technology in agriculture in general (technical, economic, and social) and able to formulate procedural and	Case method (60%) MIDTERM EXAM (20%)	<ul><li>Discussion</li><li>Presentation</li><li>Project Based</li><li>Team.</li></ul>

engineering which form the basis of extension disciplines  SSC 25. Have competency in accordance with the discipline in management and marketing, especially project management, acquisition, personnel management, and control		comprehensive solutions to agricultural development problems.	FINALEXAM (20%)	
ssc 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines  ssc 2. Has comprehensive knowledge in agricultural extension and communication disciplines including innovation knowledge in extension and communication disciplines  ssc 3. Knowing the concept and identification of problems in improving the quality of agricultural	Real Work Lecture Program (KKN)	<ol> <li>Realizing one of the Tri Dharma of Higher Education, namely the field of community service.</li> <li>Assist students in applying science, technology, and art that are learned directly according to theory so that it benefits society</li> <li>Train students to learn together with the community to participate and contribute to development.</li> <li>Assisting community empowerment through the application of science, technology, and art.</li> <li>Equipping students with the ability to approach the community and shape attitudes and behavior to</li> </ol>	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project

presentations or moderating			
SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines  SSC 2. Has comprehensive knowledge in agricultural extension and communication disciplines including innovation knowledge in extension and communication disciplines  SSC 3. Knowing the concept and identification of problems in improving the quality of agricultural extension/community empowerment in the field  SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology,	Apprenticeship	1) Students can understand and practice every activity in partner institutions (10%) 2) Students are able to work in teams, both among participants and with staff at partner institutions with different scientific backgrounds 3) Students will get used to accepting differences of opinion, be able to adapt to a new environment and reduce egoism and even arrogance motivated by different disciplines. 4) Students have an impact on improving aspects related to the development of attitudes 5) Internship activities can also train sensitivity to identify problems, find alternative solutions through an	<ul> <li>case method,</li> <li>team based project</li> </ul>

psychology, education and sustainable agriculture  SSC 20. Able to work efficiently both individually and collectively  SSC 23. Be aware of project management methods and business practices such as risk and change management and understand their limitations  SSC 25. Have competency in accordance with the discipline in management and marketing, especially project management, acquisition, personnel management, and control  SSC 26. Proficient in the field of communication, for example in making presentations or moderating	Thesis	interdisciplinary approach, in order to improve their intellectual abilities.	Observation	
SSC 1. Know and understand the principles of social science, economics, and agricultural	Thesis	Students are able to understand the concepts and applications of food science and technology in an integrated manner to solve	Observation, participation, performance (10%)	<ul><li>case method,</li><li>team based</li><li>project</li></ul>

engineering which form the basis of extension disciplines  SSC 2. Has comprehensive knowledge in agricultural extension and communication disciplines including innovation knowledge in extension and communication	problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources and communicate it verbally in proposal seminars and results seminars and communicate it in writing in the form of a thesis that is arranged systematically discussing data phenomena using	Performance (50%) Performance, oral exam (40%)
disciplines  SSC 3. Knowing the concept and identification of problems in improving the quality of agricultural extension/community empowerment in the field	precise and accurate references	
SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture		
SSC 20. Able to work efficiently both individually and collectively		
SSC 23. Be aware of project management methods and business practices such as		

risk and change management and understand their limitations  SSC 25. Have competency in accordance with the discipline in management and marketing, especially project management, acquisition, personnel management, and control  SSC 26. Proficient in the field of communication, for example in making presentations or moderating				
SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines  SSC 2. Has comprehensive knowledge in agricultural extension and communication disciplines including innovation knowledge in extension	Seminar	Students are able to understand the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources and communicate it verbally in proposal seminars and results seminars and communicate it in writing in the form of a thesis that is arranged systematically	Observation, participation, performance (10%) Performance (50%)  Performance, oral exam (40%)	- case method - team based project

and communication disciplines	discussing data phenomena using precise and accurate references
SSC 3. Knowing the concept and identification of problems in improving the quality of agricultural extension/community empowerment in the field	
SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture	
SSC 20. Able to work efficiently both individually and collectively	
SSC 23. Be aware of project management methods and business practices such as risk and change management and understand their limitations	
SSC 25. Have competency in accordance with the discipline in management and marketing, especially project management,	

	acquisition, personnel management, and control  SSC 26. Proficient in the field of communication, for example in making presentations or moderating				
PLO 4.Have the ability to synergize stakeholders and various interests in decision making to make agricultural extension effective and empower the community.	SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience SSC 20. Able to work efficiently both individually and collectively SSC 24. Recognize the need for lifelong self-learning and be qualified to do so	Rural Sociology	<ol> <li>Students can understand the basic characteristics of farmers at the level of cultural structure and relate them to the analysis of the role of technological innovation.</li> <li>Students can understand the development, as well as the values and behavior of farmers in carrying out their household economic activities.</li> <li>Students can analyze developments and improve the quality of life of farmers and explain agricultural institutions in rural areas.</li> </ol>	Individual test (40%) Project group (60%)	- Discussion - case method - Project based team
	SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience	Population and development	<ol> <li>Distinguish between demographics and population</li> <li>Arrange the composition of the population</li> <li>Conduct an analysis of population dynamics</li> </ol>	Case method (30%) Team Based Projects (30%) Tasks (10%) MIDTERM EXAM (15%)	- discussion - present - case study

SSC 20. Able to work efficiently both individually and collectively  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so		4) To analyze the relationship between population and agriculture. 5) closing of the Population Policy explanation of the uses and functions of population projections
SSC 9. Able to carry out a literature search on target and use databases and other information sources  SSC 11. Have skills in solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 20. Able to work efficiently both individually and collectively  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession	Extension methods and techniques	5) Students are able to understand the Basic Design, philosophical and psychological foundations, classification of agricultural extension methods and techniques as well as the basic considerations for selecting agricultural extension methods and techniques  6) Students are able to design Home Visit/Cultivating Techniques, Inquiry, Informal Contact, Exemplary Farmers, and Flag Fields, Technical School Fields, Farmers' Day Fields, Clinics, Field Trips, Serving Engineering Platforms, Talkshows, Business Gatherings, and Study Gathering and Evaluation (MIDTERM EXAM).  7) Students are able to explain and design Counseling

		Methods and Techniques through Print and Graphic Media  8) Students are able to understand Extension Methods and Techniques through Electronic media, Radio streaming, Film Screening, Television, Internet, Campaigns and Exhibitions		
SSC 7. Able to apply different basic methods – such as social analysis, mathematics, statistics and experimental (laboratory) in agriculture and the ability to facilitate  SSC 9. Able to carry out a literature search on target and use databases and other information sources  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience	Applied Statistics	<ol> <li>Students can choose and apply non-parametric statistics according to the characteristics of the data: Wilxoson Test, Kruscal Wallis, Friedman, Median, Sign Test, Mc Nemar, Chai Squares, Correlation Contingent C, Rank Spearman, Kendall, analyze and interpret and conclude</li> <li>Students can distinguish and design research with experiments using Completely Randomized Design, Completely Randomized Block Design, Latin Square Design using ANOVA and Non-Parametric, analyzing data and interpreting and concluding it based on relevant cases in the field</li> </ol>	Individual test (20%) Project group (20%) Group Performance (20%)	- Discussion - case method - Project based team

		3)	Students can perform several comparative tests and analyze the relative efficiency of RAL, RAKL, and RBSL			
SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience  SSC 20. Able to work efficiently both individually and collectively	Organization and Leadership	2)	Can apply logical, critical, systematic, and innovative thinking in the context of developing or applying science and technology that pays attention to and applies humanities values according to their field of expertise.  Be able to make the right decisions in the context of solving problems in their area of expertise based on the results of information and data analysis.	Team-based projects (50%) Tasks (5%) Quiz (5%) MIDTERM EXAM (20%) FINALEXAM (20%)	1 1 1	Discussion Presentation Project Based Team.
SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience	Agricultural Innovation Communicatio ns		Understanding the concept of social change, types of social change, forms of innovation discovery, invention, innovation, modernization, the implications of the Industrial Revolution 4.0 in agricultural innovation, Society 5.0 in agricultural innovation.  Understand the meaning of the diffusion of innovation, the rationalization of the need for the diffusion of agricultural	<ul> <li>Written test (40%)</li> <li>Task presentation (40%)</li> <li>Group project report (20%)</li> </ul>		Discussion Presentation Project Based Team.

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SSC 20. Able to work			ration, the characteristics		
efficiently both individually		-	gricultural innovation and		
and collectively			evelopment, the elements		
SSC 24. Recognize the need for lifelong self-learning and be qualified to do so		deter innov strate			
		innov	ation.		
		of comn devel innov decis decis group makii makii	o/community decision ng, innovation decision		
		i) Able innov stake group withi medi gover socio	to analyze the practice of vation diffusion by various holders (field schools, in os/communities and n organizations, mass a and social media, rnment, private sector, preneurs, influencers and I networks in innovation		
SSC 12. Able to combine theory and practice to	Agricultural Science	probl 2) Busin	amental concepts for lem solving in agribusiness less and management lepts to manage	Case Study (10%) Project Based (40%) cake (5%)	- Discussion - case method Project based team

solve practical problems of certain subjects  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience		agribusiness partially or integratedly  3) Entrepreneurship concept concept to design and operate agribusiness partially and integratedly  4) Able to study independently  5) Able to prepare descriptions of scientific study results based on scientific studies  6) Able to be responsible for violations of group work results, supervise and evaluate performance  7) Able to practice business in agriculture	Paper Assignment (5%) MIDTERM EXAM (20%) FINALEXAM (20%)	
SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience	Communicatio	<ol> <li>Understand the elements of communication, types of communication, forms of communication, advantages and disadvantages of various communication media and information technology.</li> <li>Understand innovation and innovation diffusion, and analyze various cases of innovation diffusion in agriculture</li> <li>Can analyze the needs of stakeholders and communication media used to</li> </ol>	Case method (25%) Team-based projects (25%) Tasks (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - case method - Project based team

SSC 20. Able to work efficiently both individually and collectively  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so		solve problems in agricultural development  4) Able to communicate innovations in agriculture in accordance with the needs of stakeholders by using relevant information technology and communication media
SSC 11. Have skills in solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience  SSC 20. Able to work efficiently both individually and collectively	Community Participatory Development	5) Understand the paradigm of participatory development, the basic concept of participatory development, the dimensions of participatory development participation; 6) Understand the conditions for the growth of community participation, as well as the scope and forms of community participation, factors that influence the success of community participation.  8) Apply designs, methods and techniques to promote community participation and conduct participatory training

SSC 11. Have skills in solving practical problems	Real Work Lecture Program (KKN)	1)	Realizing one of the Tri Dharma of Higher Education, namely the field	Observation, participation, performance	-	case method, team based project
SSC 12. Able to combine	r rogram (mm)		of community service.	(10%)		project
theory and practice to solve practical problems of		2)	Assist students in applying science, technology, and	Performance (50%)		
certain subjects			art that are learned			
SSC 13. Able to select and			directly according to	Performance, oral exam (40%)		
apply appropriate tools,			theory so that it benefits society	Charif (1070)		
processes and methods		3)	Train students to learn			
SSC 16. Able to apply			together with the community to participate			
methods relevant to their profession			and contribute to			
•		4)	development. Assisting community			
SSC 18. Able to handle issues, topics, and		٠,	empowerment through the			
processes related to their			application of science, technology, and art.			
scientific disciplines based		5)	Equipping students with			
on experience			the ability to approach the community and shape			
SSC 20. Able to work efficiently both individually			attitudes and behavior to			
and collectively			always be sensitive to the			
SSC 24. Recognize the need			problems faced by the community			
for lifelong self-learning		6)	Providing student learning			
and be qualified to do so			experiences in community life			
		7)	Mature personality traits			
			and broaden students' horizons			

		8) Community empowerment through various aspects of development as an effort to achieve prosperity
SSC 11. Have skills in solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience  SSC 20. Able to work efficiently both individually and collectively  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so	Apprenticeship	1) Students can understand and practice every activity in partner institutions 2) Students are able to work in teams, both among participants and with staff at partner institutions with different scientific backgrounds 3) Students will get used to accepting differences of opinion, be able to adapt to a new environment and reduce egoism and even arrogance motivated by different disciplines. 4) Students have an impact on improving aspects related to the development of attitudes 5) Internship activities can also train sensitivity to identify problems, find alternative solutions through an

SSC 11. Have skills in	Thesis	interdisciplinary approach, in order to improve their intellectual abilities. Students understand the	Observation,	-	case method,
solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience  SSC 20. Able to work efficiently both individually and collectively  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so	THESIS	concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources and communicate them verbally in proposal seminars and yield seminars and communicate them verbally written in the form of a thesis that is arranged systematically discussing data phenomena using appropriate and accurate references	participation, performance (10%) Performance (50%) Performance, oral exam (40%)		team based project

PLOS 5.Have the	SSC 11. Have skills in solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience  SSC 20. Able to work efficiently both individually and collectively  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so	Statistics	Students understand the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources and communicate them verbally in proposal seminars and yield seminars and communicate them verbally written in the form of a thesis that is arranged systematically discussing data phenomena using appropriate and accurate references	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method - team based project
ability to plan, implement, and evaluate agricultural	different basic methods – such as social analysis, mathematics, statistics and	Statistics	descriptive statistics and inferential analysis, present data, carry out	(20%) Performance (80%)	- case method - Project based team

development	experimental (laboratory)		quantitative analysis of data sets,		
programs and community	in agriculture and the ability to facilitate		interpret and conclude them		
empowerment in a professional manner in the context of developing community participation in a sustainable manner.	SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions SSC 11. Have skills in solving practical problems SSC 12. Able to combine theory and practice to solve practical problems of certain subjects SSC 13. Able to select and apply appropriate tools, processes and methods				
	SSC 11. Have skills in solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 13. Able to select and apply appropriate tools, processes and methods	Training Management	and relevant extension education theories to provide assistance, facilitation, and	Case Method (25%) Team Based Projects (25%) Tasks (50%)	<ul> <li>Discussion</li> <li>Presentation</li> <li>Project Base Team.</li> </ul>

SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience  SSC 20. Able to work efficiently both individually and collectively  SSC 26. Proficient in the field of communication, for example in making presentations or moderating		4) Contributing to improving the quality of life in society, nation, state, and the advancement of civilization based on Pancasila.
SSC 11. Have skills in solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 13. Able to select and apply appropriate tools, processes and methods	Community development	5) Explain the meaning and scope, philosophy, and principles of community development.  6) Explain the methods and steps of community development.  7) Explain facilitation and community development themes.  8) Describe the application of community development.

SSC 16. Able to apply methods relevant to their profession				
SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience				
SSC 20. Able to work efficiently both individually and collectively				
SSC 26. Proficient in the field of communication, for example in making presentations or moderating				
SSC 11. Have skills in solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 16. Able to apply methods relevant to their profession	Social Transformation	perspectives on social change  2) Able to analyze the forms of social change and the factors that cause it	Written test (40%) Task presentation (40%) Group project report (20%)	- discussion - present - case study

SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience  SSC 20. Able to work efficiently both individually and collectively  SSC 26. Proficient in the field of communication, for example in making presentations or moderating	Learning Process in Agricultural Extension	<ol> <li>Can explain learning         mechanisms: counseling as         adult education, adult         characteristics, and         understanding adult learning         motivation</li> <li>explanation of learning         theories, and adult learning         processes</li> <li>Can determine the use of         methods, techniques, media,         and tools in Extension</li> <li>Able to design and implement         adult learning in counseling</li> </ol>	Individual test (40%) Project group (60%)	- Lecture - Discussion group - Assignment
SSC 12. Able to combine theory and practice to solve practical problems of certain subjects	Planning and Evaluation of Agricultural Extension Programs	1) Can explain the meaning, philosophy, principles, and objectives of the Agricultural Extension program	Individual test (40%) Project group (60%)	Lecture Discussion group Assignment

SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience  SSC 20. Able to work efficiently both individually and collectively  SSC 26. Proficient in the field of communication, for example in making presentations or moderating		<ul> <li>2) Can explain the process and procedures for preparing the Agricultural Extension program</li> <li>3) Can explain the evaluation of the Agricultural Extension program</li> <li>4) Can explain the implementation of the evaluation of the Agricultural Extension program</li> <li>Extension program</li> </ul>	
SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 13. Able to select and apply appropriate tools, processes and methods	Real Work Lecture Program (KKN)	4) Realizing one of the Tri Dharma of Higher Education, namely the field of community service. 5) Assist students in applying science, technology, and art that are learned directly according to theory so that it benefits society 6) Train students to learn together with the community  Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project

SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience  SSC 20. Able to work efficiently both individually and collectively  SSC 26. Proficient in the field of communication, for example in making presentations or moderating		to participate and contribute to development.  7) Assisting community empowerment through the application of science, technology, and art.  8) Equipping students with the ability to approach the community and shape attitudes and behavior to always be sensitive to the problems faced by the community  9) Providing student learning experiences in community life  10) Mature personality traits and broaden students' horizons  11) Community empowerment through various aspects of development as an effort to achieve prosperity
SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession	Apprenticeship	1) Students can understand and practice every activity in partner institutions 2) Students are able to work in teams, both among participants and with staff at partner institutions with different scientific backgrounds 3) Students will get used to  Observation, participation, performance (10%)  Performance (50%)  Performance, oral exam (40%)

SSC 18. Able to handle		accepting differences of		
issues, topics, and		opinion, be able to		
processes related to their		adapt to a new		
scientific disciplines based		environment and reduce		
on experience		egoism and even		
		arrogance motivated by		
SSC 20. Able to work		different disciplines.		
efficiently both individually		4) Students have an impact		
and collectively		on improving aspects		
SSC 26. Proficient in the		related to the development of		
field of communication, for		development of attitudes		
example in making		5) Internship activities can		
presentations or		also train sensitivity to		
moderating		identify problems, find		
		alternative solutions		
		through an		
		interdisciplinary		
		approach, in order to		
		improve their		
		intellectual abilities.		
SSC 12. Able to combine	Thesis	Students are able to	Observation,	- case method,
theory and practice to		understand the concepts and	participation,	team based project
solve practical problems of		applications of food science	performance	
certain subjects		and technology in an integrated	(10%)	
SSC 13. Able to select and		manner to solve problems in the food sector related to	Performance	
apply appropriate tools,		quality, food safety, shelf life,	(50%)	
processes and methods		bioactive components, product	Performance, oral	
processes una metrous		development and development	exam (40%)	
SSC 16. Able to apply		of local food resources		
methods relevant to their		andcommunicate it verbally in		
profession		proposal seminars and results		
		seminars and communicate it in		

SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience  SSC 20. Able to work efficiently both individually and collectively  SSC 26. Proficient in the field of communication, for example in making presentations or moderating	writing in the form of a thesis that is arranged systematically discussing data phenomena using precise and accurate references		
SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession  SSC 18. Able to handle issues, topics, and processes related to their	Seminar  Students are able to understand the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources andcommunicate it verbally in proposal seminars and results seminars and communicate it in writing in the form of a thesis that is arranged systematically discussing data phenomena	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method team based project

	on experience		references			
	SSC 20. Able to work efficiently both individually and collectively					
	SSC 26. Proficient in the field of communication, for example in making presentations or moderating					
PLO 6.Mastering and applying the theory of communication and information technology in planning and developing innovation businesses.	SSC 19. Able to consult adequate literature and information sources and coordinate the work of experts  SSC 20. Able to work efficiently both individually and collectively  SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 26. Proficient in the field of communication, for	Information Technology and Multimedia	Explanation of visual communication message design concepts Able to work with Adobe Photoshop software for visual communication design Able to work with Corel Draw software for visual communication design Able explain the stages of audio-visual production Able to explain and review shooting techniques Able to work with Adobe Premiere software for audiovisual communication design	Case method (10%) Team Based Projects (40%) Tasks (20%) MIDTERM EXAM (15%) FINALEXAM (15%)	- c	Discussion case method Project base ceam

solving practical problems  SSK 14. Has developed an understanding of the techniques and methods that can be applied and their limitations;  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience  SSC 19. Able to consult adequate literature and information sources and coordinate the work of experts	Agricultural Innovation Communicatio ns	Conceptually and technically this innovation diffusion course is in the process of developing innovations in agriculture which must be disseminated in an appropriate, effective and efficient manner according to the characteristics of different communities. The suitability of innovative media and content that is in accordance with changes from generation to generation and technological developments and societal structures is an important point in this course.	-	Written test (40%) Task presentation (40%) Group project report (20%)	Discussion, Case method, Project based team.
SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 26. Proficient in the field of communication, for					

example in making presentations or moderating	Rucinosc	The husiness communication	Writton tost	Discussion Case
SSC 11. Have skills in solving practical problems  SSK 14. Has developed an understanding of the techniques and methods that can be applied and their limitations;  SSC 18. Able to handle issues, topics, and processes related to their scientific disciplines based on experience  SSC 19. Able to consult adequate literature and information sources and coordinate the work of experts  SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 25. Have competency in accordance with the	Business communicatio n	The business communication course is a compulsory subject for students of the Agricultural Extension and Communication Study Program. This course aims to enable students to understand, evaluate, analyze and design communications for business purposes.	- Written test (40%) - Task presentation (40%) - Group project report (20%)	Discussion, Case method, Presentation, Project based team.

discipline in management and marketing, especially project management, acquisition, personnel management, and control  SSC 26. Proficient in the field of communication, for example in making presentations or moderating				
SSC 11. Have skills in solving practical problems  SSK 14. Has developed an understanding of the techniques and methods that can be applied and their limitations;  SSC 15. Recognize the technical, health and safety, social, ecological and legal implications of engineering practice in their field of scientific expertise  SSC 19. Able to consult adequate literature and information sources and	Social psychology	Students understand the concept of human behavior in relation to its social environment.  This understanding is expected to be useful as a basis for formulating strategic efforts for capacity building of individuals in society so that they become human beings who are able to develop respond to opportunities in development to improve quality of life	Case method (30%) Team Based Projects (20%) Tasks (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - case method

coordinate the work of experts  SSC 20. Able to work efficiently both individually and collectively  SSC 26. Proficient in the field of communication, for example in making presentations or moderating				
SSC 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry, communication and community empowerment  SSC 11. Have skills in solving practical problems  SSK 14. Has developed an understanding of the techniques and methods that can be applied and their limitations;	Real Work Lecture Program (KKN)	<ol> <li>Realizing one of the Tri Dharma of Higher Education, namely the field of community service.</li> <li>Assist students in applying science, technology, and art that are learned directly according to theory so that it benefits society</li> <li>Train students to learn together with the community to participate and contribute to development.</li> <li>Assisting community empowerment through the application of science, technology, and art.</li> <li>Equipping students with the ability to approach the community and shape attitudes and behavior to always be sensitive to the</li> </ol>	participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project

SSC 15. Recognize the technical, health and safety, social, ecological and legal implications of engineering practice in their field of scientific expertise  SSC 20. Able to work efficiently both individually and collectively  SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 26. Proficient in the field of communication, for example in making presentations or moderating		problems faced by the community  6) Providing student learning experiences in community life  7) Mature personality traits and broaden students' horizons  8) Community empowerment through various aspects of development as an effort to achieve prosperity	
SSC 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry,	Apprenticeship	1) Students can understand and practice every activity in partner institutions 2) Students are able to work in teams, both among participants and with staff at partner  Observation, participation, performance (10%)  Performance (50%)  Performance, oral	- case method, - team based project

community empowerment  SSC 11. Have skills in solving practical problems  SSK 14. Has developed an understanding of the techniques and methods that can be applied and their limitations;  SSC 15. Recognize the technical, health and safety, social, ecological and legal implications of engineering practice in their field of scientific expertise  SSC 20. Able to work efficiently both individually and collectively  SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole	scien 3) Stud acce opini to a and even moti disci 4) Stud on relat deve 5) Inter can sens prob alter throu inter appr impr	vated by different plines. ents have an impact improving aspects ed to the lopment of attitudes this inship activities also train sitivity to identify elems, find mative solutions and disciplinary to ach, in order to	exam (40%)	

presentations or moderating  SSC 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry, communication and	Thesis	Students are able to understand the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources and communicate it verbally in	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project
community empowerment  SSC 7. Able to apply different basic methods — such as social analysis, mathematics, statistics and experimental (laboratory) in agriculture and the ability to facilitate  SSC 11. Have skills in solving practical problems		proposal seminars and results seminars and communicate it in writing in the form of a thesis that is arranged systematically discussing data phenomena using precise and accurate references		
SSK 14. Has developed an understanding of the techniques and methods that can be applied and their limitations;  SSC 15. Recognize the technical, health and				

safety, social, ecological and legal implications of engineering practice in their field of scientific expertise				
SSC 20. Able to work efficiently both individually and collectively				
SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole				
SSC 26. Proficient in the field of communication, for example in making presentations or moderating				
SSC 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry,	Seminar	Students are able to understand the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources and communicate it verbally in	Observation, participation, performance (10%) Performance (50%)  Performance, oral exam (40%)	- case method - team based project

communication and	proposal seminars and results	
community empowerment	seminars and communicate it in	
SSC 7. Able to apply different basic methods –	writing in the form of a thesis that is arranged systematically discussing data phenomena using	
such as social analysis, mathematics, statistics and	precise and accurate references	
experimental (laboratory) in agriculture and the ability to facilitate		
SSC 11. Have skills in solving practical problems		
SSK 14. Has developed an understanding of the		
techniques and methods that can be applied and their limitations;		
SSC 15. Recognize the technical, health and		
safety, social, ecological and legal implications of engineering practice in		
their field of scientific expertise		
SSC 20. Able to work efficiently both individually and collectively		
SSC 21. Qualified to apply various methods to		

DIO 7. Have the	communicate effectively with the scientific community and society as a whole  SSC 26. Proficient in the field of communication, for example in making presentations or moderating	Introduction to	1) Evaluin the concept of	Case method	Discussion
PLO 7. Have the ability to analyze, manage, and communicate innovations in agriculture to stakeholders and build synergies to develop advanced agriculture.	ssc 10. Meets the requirements to make judgments based on comparisons with literature references and reasonable considerations  ssc 11. Have skills in solving practical problems  ssc 13. Able to select and apply appropriate tools, processes and methods  ssc 15. Recognize the technical, health and safety, social, ecological and legal implications of engineering practice in their field of scientific expertise	Introduction to Precision Agriculture	<ol> <li>Explain the concept of precision agriculture: definition, scope, interactions, process cycles, methods and tools</li> <li>Analyzing agricultural development in the era of the Industrial Revolution 1.0 to. 4.0 and society 5.0</li> <li>Discuss the opportunities and challenges of implementing precision agriculture at global and national levels.</li> <li>Assessing the readiness of agricultural human resources in the development of precision agriculture in Indonesia</li> </ol>	Case method (30%) Team Based Projects (20%) Tasks (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - case method -

SSC 10. Meets the	Agricultural	Students can explain the meaning	Individual tasks	Discussions,
requirements to make judgments based on comparisons with literature references and reasonable considerations  SSC 11. Have skills in solving practical problems  SSC 13. Able to select and	Extension	of extension, agricultural extension policies and institutions, philosophy and principles of agricultural extension, benefits, diffusion and adoption of agricultural innovations, decentralization of agricultural extension and revitalization and privatization of agricultural extension.	(20%) Group assignments (20%) Project group (30%)	Presentations, Project based Teams.
apply appropriate tools, processes and methods		extension.		
SSC 15. Recognize the technical, health and safety, social, ecological and legal implications of engineering practice in their field of scientific expertise				
SSC 16. Able to apply methods relevant to their profession				
SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole				

SSC 26. Proficient in the field of communication, for example in making presentations or moderating				
SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  SSC 9. Able to carry out a literature search on target and use databases and other information sources  SSC 10. Meets the requirements to make judgments based on comparisons with literature references and reasonable considerations  SSC 13. Able to select and apply appropriate tools, processes and methods	Statistics	Students can explain and compile descriptive statistics and inferential analysis, present data, carry out quantitative analysis of data sets, interpret and conclude them	Individual test (20%) Performance (80%)	- Discussion - case method - Project based team
SSC 10. Meets the requirements to make judgments based on comparisons with literature	Personal communicatio n	Personal communication courses are courses that are intended for students to: (1) be able to explain the scope of personal communication, forms of verbal and non-verbal communication,	- Written test (40%) - Task presentation (40%) - Group project	Discussion, Case method, Presentation, Project based team.

references and reasonable considerations  SSC 11. Have skills in solving practical problems  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession  SSC 20. Able to work efficiently both individually and collectively  SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 26. Proficient in the field of communication, for example in making presentations or moderating		communication principles, forms, and models of communication; (2) able to describe the flow of decision making and communication; (3) being able to explain and analyze oneself in communication (perception); (4) being able to analyze forms of communication, relationship development strategies, communication competencies, and conflict management.	report (20%)	
SSC 9. Able to carry out a literature search on target	Agricultural Extension	Students are able to understand the Basic Design, philosophical and	Individual test (20%)	Discussions, Presentations,

and use databases and	psychological foundations,	Performance	Project based
other information sources  SSC 10. Meets the requirements to make judgments based on comparisons with literature references and reasonable considerations  SSC 11. Have skills in solving practical problems  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 20. Able to work efficiently both individually and collectively  SSC 26. Proficient in the field of communication, for example in making presentations or moderating	classification of agricultural extension methods and techniques as well as the basic considerations for selecting agricultural extension methods and techniques  2) Students are able to design Home Visit/Cultivating Techniques, Inquiry, Informal Contact, Exemplary Farmers, and Flag Fields, Technical School Fields, Farmers' Day Fields, Clinics, Field Trips, Serving Engineering Platforms, Talkshows, Business Gatherings, and Study Gathering and Evaluation (MIDTERM EXAM).  3) Students are able to explain and design Counseling Methods and Techniques through Print and Graphic Media  4) Students are able to understand Extension Methods and Techniques through Electronic media, Radio streaming, Film Screening, Television, Internet, Campaigns and Exhibitions	(80%)	Teams.

SSC 8. Qualified to plan and	Information	Explanation of visual	Case method	- Discussion
conduct appropriate	Technology	communication message design	(10%)	- case method
experiments, interpret	and	concepts Able to work with Adobe	Team Based	<ul> <li>Project based</li> </ul>
data, and draw conclusions  SSC 9. Able to carry out a literature search on target and use databases and other information sources  SSC 10. Meets the requirements to make judgments based on comparisons with literature references and reasonable considerations	Multimedia	Photoshop software for visual communication design Able to work with Corel Draw software for visual communication design Able explain the stages of audio-visual production Able to explain and review shooting techniques Able to work with Adobe Premiere software for audiovisual communication design	Projects (40%) Tasks (20%) MIDTERM EXAM (15%) FINALEXAM (15%)	team
SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions SSC 9. Able to carry out a literature search on target and use databases and other information sources SSC 10. Meets the requirements to make judgments based on comparisons with literature references and reasonable considerations	Applied Statistics	1) Students can choose and apply non-parametric statistics according to the characteristics of the data: Wilxoson Test, Kruscal Wallis, Friedman, Median, Sign Test, Mc Nemar, Chai Squares, Correlation Contingent C, Rank Spearman, Kendall, analyze and interpret and conclude  2) Students can distinguish and design research with experiments using Completely Randomized Design, Completely Randomized Block Design, Latin Square Design	Individual test (20%) Project group (20%) Group Performance (20%)	Discussion, Case method, Project based team.

SSC 11. Have skills in solving practical problems  SSC 13. Able to select and apply appropriate tools, processes and methods		using ANOVA and Non-Parametric, analyzing data and interpreting and concluding it based on relevant cases in the field  3) Students can perform several comparative tests and analyze the relative efficiency of RAL, RAKL, and RBSL			
SSC 11. Have skills in solving practical problems  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 16. Able to apply methods relevant to their profession  SSC 20. Able to work efficiently both individually and collectively  SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 26. Proficient in the field of communication, for	Mass communication	Mass communication courses are courses that make students understand the meaning and characteristics of mass communication, the functions of mass communication, the basic models and theories of mass communication, the basic models and theories of mass communication, theories in mass communication, obstacles in communication mass media, models, theories and barriers in mass communication effects, global village phenomenon, new media (internet), press and journalism, the concept of news in mass media, compiling news and analyzing content in mass media. This course will explore the causes and effects of changes in the mass media landscape, and their impact	-	Written test (40%) Task presentation (40%) Group project report (20%)	Discussion, Case method, Presentation, Project based team.

example in making presentations or moderating		on society due to the rapid development of information and communication technology.		
SSC 10. Meets the requirements to make judgments based on comparisons with literature references and reasonable considerations  SSC 11. Have skills in solving practical problems  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 15. Recognize the technical, health and safety, social, ecological and legal implications of engineering practice in their field of scientific expertise  SSC 16. Able to apply methods relevant to their profession	Social Transformation	1) Able to understand theoretical perspectives on social change 2) Able to analyze the forms of social change and the factors that cause it 3) Able to analyze opportunities for social change to occur in certain communities/societies/instit utions that are just and sustainable socially, culturally, economically and ecologically.	Written test (40%) Task presentation (40%) Group project report (20%)	- discussion - present - case study

requirements to make judgments based on comparisons with literature references and reasonable considerations  SSC 11. Have skills in solving practical problems  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 20. Able to work efficiently both individually and collectively  SSC 21. Qualified to apply various methods to communicate effectively	Agricultural Communicatio ns	3)	Understand the elements of communication, types of communication, forms of communication, advantages and disadvantages of various communication media and information technology.  Understand innovation and innovation diffusion, and analyze various cases of innovation diffusion in agriculture  Can analyze the needs of stakeholders and communication media used to solve problems in agricultural development  Able to communicate innovations in agriculture in accordance with the needs of	Individual test (20%) Project group (20%) Group Performance (20%)	Discussion, Case method, Project based team
with the scientific community and society as a whole			stakeholders by using relevant information technology and communication media		
SSC 26. Proficient in the field of communication, for example in making presentations or moderating					
SSC 8. Qualified to plan and conduct appropriate	Real Work Lecture Program (KKN)	1)	Realizing one of the Tri Dharma of Higher Education, namely the field of community service.	Observation, participation, performance	<ul><li>case method,</li><li>team based</li><li>project</li></ul>

experiments, interpret	2) Assist students in applying (10%)
	2) Assist students in applying (10%) science, technology, and art Performance
data, and draw conclusions	
SSC 9. Able to carry out a	that are learned directly (50%)
literature search on target	according to theory so that it henefits society Performance, oral
and use databases and	over (400/)
other information sources	3) Hall Students to learn
other information sources	together with the community
SSC 10. Meets the	to participate and contribute to development.
requirements to make	4) Assisting community
judgments based on	empowerment through the
comparisons with literature	application of science,
references and reasonable	technology, and art.
considerations	5) Equipping students with the
Considerations	ability to approach the
SSC 11. Have skills in	community and shape
solving practical problems	attitudes and behavior to
	always be sensitive to the
SSC 13. Able to select and	problems faced by the
apply appropriate tools,	community
processes and methods	6) Providing student learning
SSC 15. Recognize the	experiences in community life
	7) Mature personality traits and
•	broaden students' horizons
safety, social, ecological	8) Community empowerment
and legal implications of	through various aspects of
engineering practice in	development as an effort to
their field of scientific	achieve prosperity
expertise	
SSC 16. Able to apply	
methods relevant to their	
profession	
profession	

SSC 20. Able to work efficiently both individually and collectively  SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 26. Proficient in the field of communication, for example in making presentations or moderating				
SSC 10. Meets the requirements to make judgments based on comparisons with literature references and reasonable considerations  SSC 11. Have skills in solving practical problems  SSC 16. Able to apply methods relevant to their profession	Apprenticeship	<ol> <li>Students can understand and practice every activity in partner institutions</li> <li>Students are able to work in teams, both among participants and with staff at partner institutions with different scientific backgrounds</li> <li>Students will get used to accepting differences of opinion, be able to adapt to a new environment and reduce</li> </ol>	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project

SSC 20. Able to work efficiently both individually and collectively  SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 26. Proficient in the field of communication, for example in making presentations or moderating		egoism and even arrogance motivated by different disciplines.  4) Students have an impact on improving aspects related to the development of attitudes  5) Internship activities can also train sensitivity to identify problems, find alternative solutions through an interdisciplinary approach, in order to improve their intellectual abilities.		
SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  SSC 9. Able to carry out a literature search on target and use databases and other information sources  SSC 10. Meets the requirements to make judgments based on comparisons with literature	Thesis	Students are able to understand the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources and communicate it verbally in proposal seminars and results seminars and communicate it in writing in the form of a thesis that is arranged	Observation, participation, performance (10%) Performance (50%)  Performance, oral exam (40%)	- case method, team based project

references and reasonable considerations  SSC 11. Have skills in solving practical problems  SSC 13. Able to select and apply appropriate tools, processes and methods  SSC 26. Proficient in the field of communication, for example in making presentations or moderating		systematically discussing data phenomena using precise and accurate references		
SSC 11. Have skills in solving practical problems  SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole  SSC 26. Proficient in the field of communication, for example in making presentations or moderating	Seminar	Students are able to understand the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources andcommunicate it verbally in proposal seminars and results seminars and communicate it in writing in the form of a thesis that is arranged systematically discussing data	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method team based project

			phenomena using precise and accurate references		
PLO 8. Having the ability to analyze the ecological, social, cultural and economic conditions of certain communities, initiate prospects for change based on justice and sustainability by taking into account the local, regional, national and global context.	SSC 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry, communication and community empowerment SSC 15. Recognize the technical, health and safety, social, ecological and legal implications of engineering practice in their field of scientific expertise	Rural Sociology	This course studies how to understand social processes and interactions; industrial and class growth; industrialization and social change; groups, organizations, and institutions; industrial and family relations; industrial influence on society; industrial organizations; work conflict and social influence; trade unions as instruments of power and trade unions; development of information technology and changes in social culture and corporate social responsibility.	Individual test (20%) Project group (30%) Case study (20%)	Discussion, Presentation.
	SSC 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry, communication and community empowerment	Population and development	<ol> <li>Distinguish between demographics and population</li> <li>Arrange the composition of the population</li> <li>Conduct an analysis of population dynamics</li> <li>Analyze the linkages between population and agriculture</li> <li>closing of the Population Policy</li> <li>explanation of the uses and functions of population projections</li> </ol>	Case method (30%) Team Based Projects (30%) Tasks (10%) MIDTERM EXAM (15%) FINALEXAM (15%)	- Discussion - Case Method - Presentation

SSC 15. Recognize the technical, health and safety, social, ecological and legal implications of engineering practice in their field of scientific expertise				
SSC 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry, communication and community empowerment  SSC 15. Recognize the technical, health and safety, social, ecological and legal implications of engineering practice in their field of scientific expertise  SSC 19. Able to consult adequate literature and information sources and coordinate the work of experts	Agrarian Studies	<ol> <li>Able to describe and explain the scope of agrarian studies</li> <li>Able to analyze agrarian law and policy in Indonesia</li> <li>Able to explain the urgency, history, rationale, and analyze the dilemmas, challenges and struggles of agrarian reform</li> <li>Able to diagnose the types and causes of various agrarian conflicts and design comprehensive solutions for their resolution</li> </ol>	Individual test (40%) Project group (60%)	- Discussion - Case Method - Presentation

1				
SSC 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry, communication and community empowerment  SSC 15. Recognize the technical, health and safety, social, ecological and legal implications of engineering practice in their field of scientific expertise  SSC 17. Be aware of the uses and limitations of concept and solution strategies	Sustainable Agriculture System	1) Explain the meaning and scope of sustainable agriculture and include it in sustainable agricultural development  2) Mastering sustainable principles and integrated crop management  3) Mastering and understanding the optimization of environmental and bioenergy factors in sustainable sustainability  4) Understand and be able to apply sustainable principles in market development	Case method (10%) Team Based Projects (10%) Tasks (20%) MIDTERM EXAM (30% ( FINALEXAM (30%)	- Discussion - case method - Project based team.
SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  SSC 11. Have skills in solving practical problems	Planning and Evaluation of Agricultural Extension Programs	This course provides learning experiences for students in understanding the planning or preparation of an Agricultural Extension program and how to evaluate the program. After completing this course, students can explain concepts related to	Individual test (40%) Project group (60%)	Lectures, group discussions, assignments

SSC 12. Able to combine theory and practice to solve practical problems of certain subjects		Planning and Evaluation of Agricultural Extension Programs; students can arrange programs and develop evaluations.		
SSK 14. Has developed an understanding of the techniques and methods that can be applied and their limitations;				
SSC 17. Be aware of the uses and limitations of concept and solution strategies				
SSC 19. Able to consult adequate literature and information sources and coordinate the work of experts				
SSC 20. Able to work efficiently both individually and collectively				
SSC 24. Recognize the need for lifelong self-learning and be qualified to do so				
SSC 6. Have the necessary knowledge and understanding to identify and formulate problems	Human Ecology	Identify the basic concepts of human interaction with the environment	Individual test (40%) Project group (60%)	- Discussion - Case Method Presentation

that arise in the fields of		2) Discuss human perception of		
sustainable agriculture,		the environment		
social forestry, food		3) Classify the factors causing the		
science, animal husbandry,		sustainability/unsustainability		
communication and		of human-environment		
community empowerment		interaction		
		4) Applying human ecology in		
SSC 15. Recognize the		development practice		
technical, health and				
safety, social, ecological				
and legal implications of				
engineering practice in				
their field of scientific				
expertise				
SSC 17. Be aware of the				
uses and limitations of				
concept and solution				
strategies				
SSC 19. Able to consult	Organization	The focus of this course is on three	Team-based	Discussions,
adequate literature and	and Leadership	main topics, namely groups,	projects (50%)	Presentations,
information sources and		organizations, and leadership. A	Tasks (5%)	Project Based
coordinate the work of		basic understanding of group and	Quiz (5%)	Teams
experts		organizational theory will	MIDTERM EXAM	
SSC 20. Able to work		contribute to managerial skills in	(20%)	
		managing farmer and agricultural institutions, both in the form of	FINALEXAM (20%)	
efficiently both individually		groups and organizations. The	(∠U70)	
and collectively		ability to manage agricultural		
SSC 24. Recognize the need		institutions must be supported by		
for lifelong self-learning		leadership capabilities. Therefore,		
and be qualified to do so		,		

SSC 25. Have competency		an understanding of the basics of			
in accordance with the discipline in management and marketing, especially project management, acquisition, personnel		leadership is taught in this course.			
management, and control					
SSC 26. Proficient in the field of communication, for example in making presentations or moderating					
SSC 11. Have skills in solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSK 14. Has developed an understanding of the techniques and methods that can be applied and their limitations;  SSC 19. Able to consult adequate literature and information sources and coordinate the work of experts	Local Wisdom of Rural Communities	This course aims to make students understand how to carry out the process of communication between different cultures, so that they can apply it to increase the effectiveness of communication in different cultures. This course will discuss, among other things, the notion of intercultural communication, functions, elements, forms and processes of intercultural communication, structures in culture and family interactions and information flows for farmers, understanding of nonverbal communication, the nature of nonverbal communication of verbal communication and its roles and	-	Written test (40%) Task presentation (40%) Group project report (20%)	Discussion, Cas method, Project based team.

SSC 26. Proficient in the field of communication, for example in making presentations or moderating		functions. non-verbal communication in communication with different cultures, factors of the effectiveness of intercultural communication and how to increase the effectiveness of intercultural communication.  Besides that,		
SSC 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry, communication and community empowerment  SSC 17. Be aware of the uses and limitations of concept and solution strategies  SSC 19. Able to consult adequate literature and information sources and coordinate the work of experts	Dynamics of Rural Development	3) Contributing to improving the quality of life in society, nation, state, and progress of civilization based on Pancasila  Able to understand the theory of communication in planning and developing innovation efforts	Case method (30%) Team Based Projects (20%) Tasks (10%) Quiz (10%) MIDTERM EXAM (15%) FINALEXAM (15%)	Discussion Case study

SSC 20. Able to work efficiently both individually and collectively  SSC 15. Recognize the technical, health and safety, social, ecological and legal implications of engineering practice in their field of scientific expertise  SSC 17. Be aware of the uses and limitations of concept and solution strategies  SSC 19. Able to consult adequate literature and information sources and coordinate the work of experts  SSC 20. Able to work	Social Transformation	1) Able to understand theoretical perspectives on social change 2) Able to analyze the forms of social change and the factors that cause it 3) Able to analyze opportunities for social change to occur in certain communities/societies/institu tions that are just and sustainable socially, culturally, economically and ecologically.	Written test (40%) Task presentation (40%) Group project report (20%)	- discussion - present - case study
efficiently both individually and collectively				
SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions	Social psychology	Students understand the concept of human behavior in relation to its social environment. This understanding is expected to be useful as a basis for formulating strategic efforts for	Case method (30%) Team Based Projects (20%) Tasks (10%) MIDTERM EXAM	<ul><li>Discussion</li><li>case method</li></ul>

SSC 11. Have skills in solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSC 15. Recognize the technical, health and safety, social, ecological and legal implications of engineering practice in their field of scientific expertise  SSC 17. Be aware of the uses and limitations of concept and solution strategies  SSC 20. Able to work efficiently both individually and collectively  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so  SSC 6. Have the necessary	Community	capacity building of individuals in society so that they become human beings who are able to develop respond to opportunities in development to improve quality of life  1) Understand the paradigm of	(20%) FINALEXAM (20%)	Discussion, Case
knowledge and understanding to identify and formulate problems that arise in the fields of	Participatory Development	participatory development, the basic concept of participatory development, the dimensions of	(20%) Project group (20%)	method, Presentation, Project based team.

sustainable agriculture, social forestry, food science, animal husbandry, communication and community empowerment  SSC 11. Have skills in solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSK 14. Has developed an understanding of the techniques and methods that can be applied and their limitations;		participatory development participation;  2) Understand the conditions for the growth of community participation, as well as the scope and forms of community participation;  3) Identify obstacles to community participation, factors that influence the success of community participation.  4) Apply designs, methods and techniques to promote community participation and conduct participatory training	
SSC 17. Be aware of the uses and limitations of concept and solution strategies  SSC 19. Able to consult adequate literature and information sources and coordinate the work of experts	Lecture Program (KKN)	1) Realizing one of the Tri Dharma of Higher Education, namely the field of community service. 2) Assist students in applying science, technology, and art that are learned directly according to theory so that it benefits society 3) Train students to learn together with the community to participate and contribute to development. 4) Assisting community empowerment through the	- case method, team based project

SSC 20. Able to work efficiently both individually and collectively  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so  SSC 25. Have competency in accordance with the discipline in management and marketing, especially project management, acquisition, personnel management, and control  SSC 26. Proficient in the field of communication, for example in making presentations or moderating			application of science, technology, and art.  Equipping students with the ability to approach the community and shape attitudes and behavior to always be sensitive to the problems faced by the community  Providing student learning experiences in community life Mature personality traits and broaden students' horizons  Community empowerment through various aspects of development as an effort to achieve prosperity			
SSC 17. Be aware of the uses and limitations of concept and solution strategies  SSC 19. Able to consult adequate literature and information sources and coordinate the work of experts	Apprenticeship	2)	Students can understand and practice every activity in partner institutions Students are able to work in teams, both among participants and with staff at partner institutions with different scientific backgrounds	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	-	case method, team based project

SSC 20. Able to work efficiently both individually and collectively  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so  SSC 25. Have competency in accordance with the discipline in management and marketing, especially project management, acquisition, personnel management, and control  SSC 26. Proficient in the field of communication, for example in making presentations or moderating		<ul> <li>3) Students will get used to accepting differences of opinion, be able to adapt to a new environment and reduce egoism and even arrogance motivated by different disciplines.</li> <li>4) Students have an impact on improving aspects related to the development of attitudes</li> <li>5) Internship activities can also train sensitivity to identify problems, find alternative solutions through an interdisciplinary approach, in order to improve their intellectual abilities.</li> </ul>		
SSC 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry, communication and community empowerment	Thesis	Students understand the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources and communicate them verbally in proposal	Observation, participation, performance (10%) Performance (50%)  Performance, oral exam (40%)	<ul> <li>case method,</li> <li>team based</li> <li>project</li> </ul>

SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  SSC 11. Have skills in solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSK 14. Has developed an understanding of the techniques and methods that can be applied and their limitations;  SSC 19. Able to consult adequate literature and information sources and coordinate the work of experts		seminars and yield seminars and communicate them verbally written in the form of a thesis that is arranged systematically discussing data phenomena using appropriate and accurate references		
SSC 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry,	Seminar	Students understand the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food	Observation, participation, performance (10%) Performance (50%)  Performance, oral exam (40%)	- case method - team based project

community empowerment  SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  SSC 11. Have skills in solving practical problems  SSC 12. Able to combine theory and practice to solve practical problems of certain subjects  SSK 14. Has developed an understanding of the techniques and methods that can be applied and their limitations;  SSC 19. Able to consultate adequate literature and information sources and coordinate the work of experts  SSC 26. Proficient in the field of communication, for example in making presentations of moderating	
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PLO 9. Have the ability to conduct research in the field of community change, agricultural extension, and communication, as well as community empowerment in accordance with the principles of the scientific method.	SSC 7. Able to apply different basic methods – such as social analysis, mathematics, statistics and experimental (laboratory) in agriculture and the ability to facilitate  SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  SSC 9. Able to carry out a literature search on target and use databases and other information sources  SSC 10. Meets the requirements to make judgments based on comparisons with literature references and reasonable considerations	Scientific Method	This course explains reasoning, thinking scientifically, gaining knowledge, using scientific thinking tools, analytical thinking to identify root causes, and formulate problems and take initiatives to find solutions scientifically in Agricultural Extension and Communication sciences, and prohibits basic skills in thinking and communicating thoughts, ideas, ideas scientifically.	Case method (25%) Team-based projects (25%) Tasks (5%) Quiz (5%) MIDTERM EXAM (20%) FINALEXAM (20%)	<ul> <li>Discussion</li> <li>case method</li> <li>Project based team.</li> </ul>
	SSC 7. Able to apply different basic methods – such as social analysis, mathematics, statistics and experimental (laboratory) in agriculture and the ability to facilitate	Statistics	Students can explain and compile descriptive statistics and inferential analysis, present data, carry out quantitative analysis of data sets, interpret and conclude them	Individual test (20%) Performance (80%)	<ul><li>Discussion</li><li>case method</li><li>Project based team</li></ul>

SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  SSC 9. Able to carry out a literature search on target and use databases and other information sources  SSC 10. Meets the requirements to make judgments based on comparisons with literature references and reasonable considerations				
ssc 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry, communication and community empowerment ssc 10. Meets the requirements to make judgments based on comparisons with literature	Population and development	<ol> <li>Distinguish between demographics and population</li> <li>Arrange the composition of the population</li> <li>Conduct an analysis of population dynamics</li> <li>To analyze the relationship between population and agriculture.</li> <li>closing of the Population Policy</li> <li>explanation of the uses and functions of population projections</li> </ol>	Case method (30%) Team Based Projects (30%) Tasks (10%) MIDTERM EXAM (15%) FINALEXAM (15%)	- discussion - present - case study

	eferences and reasonable onsiderations				
ef	SC 20. Able to work fficiently both individually nd collectively				
ac pr re pr	SC 22. Feel obligated to ct in accordance with rofessional ethics and esponsibilities and ractical engineering tandards				
fo	SC 24. Recognize the need or lifelong self-learning nd be qualified to do so				
kr ur ar th su	SC 6. Have the necessary nowledge and nderstanding to identify nd formulate problems nat arise in the fields of ustainable agriculture, ocial forestry, food cience, animal husbandry,	Agrarian Studies	<ol> <li>Able to describe and explain the scope of agrarian studies</li> <li>Able to analyze agrarian law and policy in Indonesia</li> <li>Able to explain urgency, history, rationale, and analyze dilemmas, challenges, and struggles for agrarian reform</li> </ol>	Individual test (40%) Project group (60%)	- Discussion - Case Method - Presentation

communication and community empowerment SSC 10. Meets the requirements to make judgments based on comparisons with literature references and reasonable considerations		4) Able to diagnose the types and causes of various agrarian conflicts and design comprehensive solutions for their resolution		
SSC 20. Able to work efficiently both individually and collectively				
SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards				
SSC 24. Recognize the need for lifelong self-learning and be qualified to do so				
SSC 7. Able to apply different basic methods – such as social analysis, mathematics, statistics and experimental (laboratory) in agriculture and the ability to facilitate	Applied Statistics	This course provides learning experiences for students in understanding and applying non-parametric statistics: Wilxoson test, Kruscal Wallis, Friedman, Median, Sign test, Mc Nemar, Chai Squares, Contingent C Correlation, Spearman Rank, Kendall, and parametric statistics, in addition In	Individual test (40%) Project group (60%)	Discussion, Case method, Project based team.

SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  SSC 9. Able to carry out a literature search on target and use databases and other information sources  SSC 10. Meets the requirements to make judgments based on comparisons with literature references and reasonable considerations		addition, students are taught to design research with experiments (completely randomized design, completely randomized block design, Latin square design using ANOVA and nonparametric) and how to analyze data, as well as interpret and draw conclusions. with analysis using various software such as SPSS, PLS that are relevant to cases in the field. Students can also perform several comparative tests and analyze the relative efficiency of RAKL, RAL, and RBSL.		
ssc 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry, communication and community empowerment ssc 10. Meets the requirements to make judgments based on comparisons with literature	Planning and Evaluation of Agricultural Extension Programs	This course provides learning experiences for students in understanding the planning or preparation of an Agricultural Extension program and how to evaluate the program. After completing this course, students can explain concepts related to Planning and Evaluation of Agricultural Extension Programs; students can arrange programs and develop evaluations.	Individual test (40%) Project group (60%)	Lectures, group discussions, assignments

SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards				
SSC 24. Recognize the need for lifelong self-learning and be qualified to do so				
different basic methods –	Social Science Research Methods	This course provides learning experiences in the form of understanding the concepts of quantitative research and qualitative research to develop thesis research proposals.  Knowledge mastered by students includes: Scope and stages of Extension Research; Creating Titles and Formulating Research Problems; Theory, Thinking Thinking, and Research Hypotheses; Variables and their Measurements; Research	individual test (40%) group projects (60%)	Lectures, group discussions, assignments

and use databases and	Collection Techniques, and Data	
other information sources	Analysis	
SSC 10. Meets the requirements to make judgments based on comparisons with literature references and reasonable considerations  SSC 20. Able to work		
efficiently both individually and collectively		
SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards		
SSC 24. Recognize the need for lifelong self-learning and be qualified to do so		

SSC 20. Able to work	Real Work	1)	Realizing one of the Tri Dharma	Observation,	-	case method
efficiently both individually	Lecture		of Higher Education, namely	participation,	-	team based
and collectively	Program (KKN)		the field of community service.	performance		project
and collectively  SSC 22. Feel obligated to act in accordance with professional ethics and responsibilities and practical engineering standards  SSC 24. Recognize the need for lifelong self-learning and be qualified to do so  SSC 25. Have competency in accordance with the discipline in management and marketing, especially project management, acquisition, personnel management, and control	Program (KKN)	4)	the field of community service. Assist students in applying science, technology, and art that are learned directly according to theory so that it benefits society Train students to learn together with the community to participate and contribute to development. Assisting community empowerment through the application of science, technology, and art. Equipping students with the ability to approach the community and shape attitudes and behavior to always be sensitive to the problems faced by the community Providing student learning experiences in community life Mature personality traits and broaden students' horizons	performance (10%) Performance (50%) Performance, oral exam (40%)		project
		8)	Community empowerment			
			through various aspects of			
			development as an effort to			
			achieve prosperity			
SSC 6. Have the necessary	Apprenticeship	1)	Students can	Observation,	_	case method
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understanding to identify	every activity in partner performance	project
and formulate problems	institutions (10%)	
that arise in the fields of	2) Students are able to Performance	
sustainable agriculture,	work in teams, both (50%)	
social forestry, food	among participants and	
science, animal husbandry,	with staff at partner  Performance	, orai
communication and	institutions with exam (40%)	
community empowerment	different scientific	
	backgrounds	
SSC 20. Able to work	3) Students will get used to	
efficiently both individually	accepting differences of	
and collectively	opinion, be able to	
CCC 22 Fact ablicated to	adapt to a new	
SSC 22. Feel obligated to	environment and reduce	
act in accordance with	egoism and even	
professional ethics and	arrogance motivated by	
responsibilities and	different disciplines.	
practical engineering	4) Students have an impact	
standards	on improving aspects related to the	
SSC 24. Recognize the need	development of	
for lifelong self-learning	attitudes	
and be qualified to do so	5) Internship activities	
and be quantied to do so	can also train	
SSC 25. Have competency	sensitivity to identify	
in accordance with the	problems, find	
discipline in management	alternative solutions	
and marketing, especially	through an	
project management,	interdisciplinary	
acquisition, personnel	approach, in order to	
management, and control	improve their	
	intellectual abilities.	

SSC 6. Have the necessary	Thesis	Students are able to understand	Observation,	- case method,
knowledge and		the concepts and applications of	participation,	team based project
understanding to identify		food science and technology in an	performance	. ,
and formulate problems		integrated manner to solve	(10%)	
that arise in the fields of		problems in the food sector related	Performance	
sustainable agriculture,		to quality, food safety, shelf life,	(50%)	
social forestry, food		bioactive components, product	Darfarmanaa aral	
science, animal husbandry,		development and development of	Performance, oral exam (40%)	
communication and		local food resources and	exam (40%)	
community empowerment		communicate it verbally in proposal seminars and results		
		seminars and communicate it in		
SSC 7. Able to apply		writing in the form of a thesis that		
different basic methods –		is arranged systematically		
such as social analysis,		discussing data phenomena using		
mathematics, statistics and		precise and accurate references		
experimental (laboratory)				
in agriculture and the				
ability to facilitate				
SSC 8. Qualified to plan and				
conduct appropriate				
experiments, interpret				
data, and draw conclusions				
CCC O. Abla to community				
SSC 9. Able to carry out a				
literature search on target and use databases and				
other information sources				
other information sources				
SSC 10. Meets the				
requirements to make				
judgments based on				
comparisons with literature				

references and reasonable considerations				
knowledge and understanding to identify and formulate problems that arise in the fields of sustainable agriculture, social forestry, food science, animal husbandry, communication and community empowerment  SSC 7. Able to apply different basic methods – such as social analysis, mathematics, statistics and experimental (laboratory) in agriculture and the ability to facilitate  SSC 8. Qualified to plan and conduct appropriate experiments, interpret data, and draw conclusions  SSC 9. Able to carry out a literature search on target and use databases and other information sources	Seminar	Students are able to understand the concepts and applications of food science and technology in an integrated manner to solve problems in the food sector related to quality, food safety, shelf life, bioactive components, product development and development of local food resources and communicate it verbally in proposal seminars and results seminars and communicate it in writing in the form of a thesis that is arranged systematically discussing data phenomena using precise and accurate references	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method team based project

SSC 10. Meets the		
requirements to make		
judgments based on		
comparisons with literature		
references and reasonable		
considerations		