

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	1) 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%) 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	1. Explanation of the role of Botany in agricultural science, occurrence and characteristics 2. Mastering material regarding morphology, physiology and anatomy of plants	Written test (40%) Task presentation (40%) Group project report (20%)	- Discussion - case method - Project based team

	professional ethics and responsibilities and practical engineering standards SSC 24. Recognize the need for lifelong self-learning and be qualified to do so		3. 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 4. Identifying plants both in morphology, physiology and anatomy		
	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	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 that religion is the basis for calling for all educational goals.	Case method (40%) Tasks (10%) Quiz (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - case method - Project based team
	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%)	- Lecture - Discussion group - Assignment

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 SSC 21. Qualified to apply various methods to communicate effectively with the scientific				
	Mass communication	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 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.	Written test (40%) Task presentation (40%) Group project report (20%)	- Discussion - Case Method - Presentation - Project based team
	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	Team-based projects (50%) Tasks (5%) Quiz (5%) MIDTERM EXAM (20%)	- Discussion - Presentation - Project Based Team.

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.	FINALEXAM (20%)	
	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;	Team Based Project (50%) Tasks (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - Presentation - Project Based Team.

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%) Project group (60%)	- Discussion - Presentation - Case study
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 communication	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%) - Task presentation (40%) - Group project report (20%)	- Discussion - Presentation - Project Based Team.

	SSC 24. Recognize the need for lifelong self-learning and be qualified to do so		6) Able to analyze integrated marketing communication of business organization products 7) 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 Communications	1) Understand the elements of communication, types of communication, forms of communication, advantages and disadvantages of various communication media and information technology. 2) Understand innovation and innovation diffusion, and analyze various cases of innovation diffusion in agriculture 3) Can analyze the needs of stakeholders and communication media used to 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	- 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 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 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	Real Work 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 application of science, technology, and art. 5) 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 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	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, team based project
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	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 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	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 interdisciplinary approach, in order to improve their intellectual abilities.	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project
	SSC 4. Know the legal regulations related to extension science and	<i>Thesis</i>	Students are able to master the concepts and applications of food science and technology in an integrated manner to solve	Observation, participation, performance (10%)	- case method, - team based project

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		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%)	
	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	- case method - team based project

	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	1. Explain of the role of Botany in agricultural science, occurrence and characteristics 2. Mastering material regarding morphology, physiology and anatomy of plants 3. Mention the characteristics and roles of plants that are fundamental to the morphology, physiology and anatomy of plants and	Written test (40%) Task presentation (40%) Group project report (20%)	- Discussion - case method - Project based team

			the chemical processes that occur in plants 4. Identifying plants both in morphology, physiology and anatomy		
	SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture	Rural Sociology	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	1) Students are able to understand the Basic Design,	Individual tasks (20%)	- Discussion - case method	

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 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,		philosophical and psychological foundations, 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,	Group assignments (20%) project (60%)	- Project based team
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psychology, education and sustainable agriculture SSC 26. Proficient in the field of communication, for example in making presentations or moderating		Internet, Campaigns and Exhibitions		
	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	- 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		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		
	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	1) Students understand and discuss psychoanalytic theories 2) Students can explain psychometric concepts such as social cognition, social perception and influencing factors, attitudes and attitude forming factors, attitude measurement 3) 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, 4) 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	1) Students can explain and compile descriptive statistics 2) Students can explain inferential statistics, present data, perform quantitative analysis of data sets, interpret and draw conclusions	- 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	1) Explain the meaning and scope, philosophy, and principles of community development. 2) Explain the methods and steps of community development. 3) Explain facilitation and community development themes. 4) Describe the application of community development.	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	1) Fundamental concepts for problem solving in agribusiness 2) Business and management concepts to manage agribusiness partially or integratedly 3) Entrepreneurship concept integrated 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 take responsibility for violations of group work results, carry out supervision, and evaluate performance 7) Able to practice business in agriculture	Case Study (10%) Project Based (40%) case (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 communication	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	Written test (40%) Task presentation (40%) Group project report (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 SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology,	Introduction to Precision Agriculture	5) Explain the concept of precision agriculture: definition, scope, interactions, process cycles, methods and tools 6) Analyzing agricultural development in the era of the Industrial Revolution 1.0 to 4.0 and society 5.0 7) Discuss the opportunities and challenges of implementing	Case method (30%) Team Based Projects (20%) Tasks (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - case method

psychology, education and sustainable agriculture SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines		precision agriculture at global and national levels. 8) Assessing the readiness of agricultural human resources in the development of precision agriculture in Indonesia		
	Fundamentals of Soil Science	1) Able to understand the meaning of soil, understand the weathering process of parent material and soil forming factors 2) Able to assess the physical, chemical, and biological properties of soil 3) 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.
	Agrotechnology	1) Able to understand the meaning, philosophy, principles, and position of Agricultural Extension 2) Be able to explain the role of extension workers in the diffusion of agricultural innovations 3) Able to understand the Agricultural Extension Learning Processes 4) 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.

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

	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		2) explanation of learning theories, and adult learning processes 3) Can determine the use of methods, techniques, media, and tools in Extension 4) Able to design and implement adult learning in counseling	(60%)	
	SSC 1. Know and understand the principles of social science, economics, and agricultural	Plant protection	1) Understand the importance of Plant Protection in plant cultivation systems	Team-based projects (50%) Tasks (5%) Quiz (5%)	- Discussion - Presentation Project Based Team.

engineering which form the basis of extension 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 23. Be aware of project management methods and business practices such as risk and change management and		2) Be able to explain disturbances to plants caused by pests and pathogens 3) Able to explain how to help pests and disease diagnosis so as to determine control measures 4) Able to explain the management of compatible pests and pathogens between physical, biological, chemical and cultural control tactics	MIDTERM EXAM (20%) FINALEXAM (20%)	
	Agricultural Development	1) 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. 2) 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.	Case method (50%) MIDTERM EXAM (25%) FINALEXAM (25%)	- discussion - present - case study
	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	- Discussion - case method - Project based team.

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				(15%) FINALEXAM (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 SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling, communication, sociology, psychology, education and sustainable agriculture . SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form	Agroclimatology	1) Able to understand the meaning of Agroclimatology and elements of weather/climate 2) Understand the role of the weather elements in agriculture 3) Able to understand and apply microclimate modification for agriculture 4) 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.
	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.
	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.

the basis of extension disciplines 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			pays attention to and applies human values according to their field of expertise 2) Mastering special knowledge and technology in the field of counseling and Agricultural Communication in the framework of community empowerment based on being used as organizers, innovators, educators, creators, dynamists, facilitators, motivators and catalysts who have high excellence, democracy, ethics 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;	MIDTERM EXAM (15%) FINALEXAM (15%)	
	SSC 5. Have awareness of multidisciplinary contexts in the fields of counseling,	Local Wisdom of Rural Communities	1) explains the meaning of Rural Community Local Wisdom, functions, elements, forms and	Written test (40%) Task presentation	- Discussion - case method

	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		processes of Rural Community Local Wisdom, Cultural Structure and family interaction 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 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	(40%) Group project report (20%)	- Project based team.
	SSC 3. Knowing the concept and identification of problems in improving the quality of agricultural	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	Written test Case study	- discussion - present - case study

	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	1) Understand the paradigm of participatory development, the basic concept of participatory development, the dimensions of 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	Written test (40%) Task presentation (40%) Group project report (20%)	- Discussion - case method - Project based team.

SSC 26. Proficient in the field of communication, for example in making presentations or moderating				
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	Real Work 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 application of science, technology, and art. 5) 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 6) Providing student learning experiences in community life	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project

	presentations or moderating		7) Mature personality traits and broaden students' horizons 8) 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	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	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project

presentations or moderating		alternative solutions through an interdisciplinary approach, in order to improve their intellectual abilities.		
	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	<i>Thesis</i> 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

	presentations or moderating				
	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 presentations or moderating	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 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

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	1) 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%) Tasks (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - case method
	SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines	Agrotechnology	5) Able to understand the meaning, philosophy, principles, and position of Agricultural Extension 6) Be able to explain the role of extension workers in the diffusion of agricultural innovations 7) Able to understand the Agricultural Extension Learning Processes 8) 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.

	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	1) Can explain learning mechanisms: counseling as adult education, adult characteristics, and understanding adult learning motivation 2) explanation of learning theories, and adult learning processes 3) Can determine the use of methods, techniques, media, and tools in Extension 4) Able to design and implement adult learning in counseling	Individual test (20%) Project group (20%) Group Performance (60%)	- Lecture - Discussion group - Assignment
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	SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines	Social Science 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%)	- Lecture - Discussion group - Assignment
	SSC 1. Know and understand the principles of social science, economics, and agricultural engineering which form the basis of extension disciplines	Human Ecology	1) Identify the basic concepts of human interaction with the environment 2) Discuss human perception of the environment 3) Classify the factors causing the sustainability/unsustainability of human-environment interaction 4) Applying human ecology in development practice	Individual test (40%) Project group (60%)	- Discussion - Case Method - Presentation
	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 26. Proficient in the field of communication, for	Mass communication	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	Team-based projects (50%) Tasks (5%) Quiz (5%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - 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	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. 2) Be able to make the right decisions in the context of	Team-based projects (50%) Tasks (5%) Quiz (5%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - Presentation - Project Based Team.

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	1) 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. 2) 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.	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%)	- Discussion - Presentation Project Based Team.

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)	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 application of science, technology, and art. 5) Equipping students with the ability to approach the community and shape attitudes and behavior to	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project

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		always be sensitive to the 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		
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	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 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	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project
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	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		interdisciplinary approach, in order to improve their intellectual abilities.		
	SSC 1. Know and understand the principles of social science, economics, and agricultural	<i>Thesis</i>	Students are able to understand the concepts and applications of food science and technology in an integrated manner to solve	Observation, participation, performance (10%)	- case method, - team based project

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, 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	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%)	
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	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 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,		discussing data phenomena using precise and accurate references		
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	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	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 (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	1) Distinguish between demographics and population 2) Arrange the composition of the population 3) Conduct an analysis of population dynamics	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 6) explanation of the uses and functions of population projections	FINALEXAM (15%)	
	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	Individual test (20%) Project group (20%) Performance (60%)	- Discussion - case method - Project based team

		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	1) Students can choose and apply non-parametric statistics according to the characteristics of the data: Wilcoxon 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 using ANOVA and Non-Parametric, analyzing data and interpreting and concluding it based on relevant cases in the field	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	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. 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.	Team-based projects (50%) Tasks (5%) Quiz (5%) MIDTERM EXAM (20%) FINALEXAM (20%) - 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 Communications	1) 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. 2) Understand the meaning of the diffusion of innovation, the rationalization of the need for the diffusion of agricultural	- Written test (40%) - Task presentation (40%) - Group project report (20%) - Discussion - Presentation - 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		innovation, the characteristics of agricultural innovation and its development, the elements of agricultural innovation, the determinants of agricultural innovation and the successful strategy for adopting innovation. 3) Be able to explain the theory of generation and communication behavior in the development and diffusion of innovation, types of innovation decisions, individual innovation decision making, group/community decision making, innovation decision making procedures in organizations. 4) Able to analyze the practice of innovation diffusion by various stakeholders (field schools, in groups/communities and within organizations, mass media and social media, government, private sector, sociopreneurs, influencers and social networks in innovation diffusion.		
	SSC 12. Able to combine theory and practice to	Agricultural Science	1) Fundamental concepts for problem solving in agribusiness 2) Business and management concepts 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	Agricultural Communications	1) Understand the elements of communication, types of communication, forms of communication, advantages and disadvantages of various communication media and information technology. 2) Understand innovation and innovation diffusion, and analyze various cases of innovation diffusion in agriculture 3) Can analyze the needs of stakeholders and communication media used to	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		solve problems in agricultural development		
SSC 24. Recognize the need for lifelong self-learning and be qualified to do so		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	Community Participatory Development	5) Understand the paradigm of participatory development, the basic concept of participatory development, the dimensions of participatory development participation;	Written test (40%) Task presentation (40%) Group project report (20%)	- Discussion - case method - Project based team
SSC 12. Able to combine theory and practice to solve practical problems of certain subjects		6) Understand the conditions for the growth of community participation, as well as the scope and forms of community participation;		
SSC 13. Able to select and apply appropriate tools, processes and methods		7) Identify obstacles to community participation, factors that influence the success of community participation.		
SSC 16. Able to apply methods relevant to their profession		8) Apply designs, methods and techniques to promote community participation and conduct participatory training		
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 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	Real Work 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 application of science, technology, and art. 5) 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 6) Providing student learning experiences in community life 7) Mature personality traits and broaden students' horizons	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project

		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	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project

		interdisciplinary approach, in order to improve their intellectual abilities.		
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	<i>Thesis</i>	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

	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	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 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
PLOS 5. Have the ability to plan, implement, and evaluate agricultural	SSC 7. Able to apply different basic methods – such as social analysis, mathematics, statistics and	Statistics	Students can explain and compile descriptive statistics and inferential analysis, present data, carry out	Individual test (20%) Performance (80%)	- Discussion - case method - Project based team

development programs and community empowerment in a professional manner in the context of developing community participation in a sustainable manner.	experimental (laboratory) in agriculture and the ability to facilitate 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		quantitative analysis of data sets, interpret and conclude them		
	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	1) Mastering development theory and relevant extension education theories to provide assistance, facilitation, and empowerment at the mezzo level 2) Able to provide assistance, facilitation, and empowerment at the mezzo level 3) Able to produce empirical theoretical studies of educational theories	Case Method (25%) Team Based Projects (25%) Tasks (50%)	- Discussion - Presentation - Project Based Team.

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.	Individual tasks (20%) Group assignments (20%) Project group (60%)	- Discussion - case method - Project based team

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	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/institutions that are just and sustainable socially, culturally, economically and ecologically.	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	1) Can explain learning mechanisms: counseling as adult education, adult characteristics, and understanding adult learning motivation 2) explanation of learning theories, and adult learning processes 3) Can determine the use of methods, techniques, media, and tools in Extension Able to design and implement adult learning in counseling	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		2) Can explain the process and procedures for preparing the Agricultural Extension program 3) Can explain the evaluation of the Agricultural Extension program 4) Can explain the implementation of the evaluation of the Agricultural Extension program		
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%)	- case method, - team based project

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		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 interdisciplinary approach, in order to improve their intellectual abilities.		
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	<i>Thesis</i>	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	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, team based project

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 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	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method team based project

	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		using precise and accurate references		
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 example in making	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 to 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%)	- Discussion - case method - Project based team

	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 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 26. Proficient in the field of communication, for	Agricultural Innovation Communications	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.

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 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 communication	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	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	Case method (30%) Team Based Projects (20%) Tasks (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - case method
SSK 14. Has developed an understanding of the techniques and methods that can be applied and their limitations;		respond to opportunities in development to improve quality of life		
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 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)	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 application of science, technology, and art. 5) Equipping students with the ability to approach the community and shape attitudes and behavior to always be sensitive to the	Observation, 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

	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; 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		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 interdisciplinary approach, in order to improve their intellectual abilities.	exam (40%)	
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	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 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 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	<i>Thesis</i>	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

	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 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 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		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		
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PLO 7. Have the ability to analyze, manage, and communicate innovations in agriculture to stakeholders and build synergies to develop advanced agriculture.	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 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	1) 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%) Tasks (10%) MIDTERM EXAM (20%) FINALEXAM (20%)	- Discussion - case method -

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 SSC 21. Qualified to apply various methods to communicate effectively with the scientific community and society as a whole	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 group (30%)	Discussions, Presentations, Project based Teams.
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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 communication	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	1) Students are able to understand the Basic Design, philosophical and	Individual test (20%)	Discussions, Presentations,

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 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		psychological foundations, 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	Performance (80%)	Project based Teams.
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	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	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 to 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%)	- 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	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 components 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, 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

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

on society due to the rapid development of information and communication technology.

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/institutions that are just and sustainable socially, culturally, economically and ecologically.

Written test (40%)
Task presentation (40%)
Group project report (20%)

- discussion
- present
- case study

	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 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	Agricultural Communications	1) Understand the elements of communication, types of communication, forms of communication, advantages and disadvantages of various communication media and information technology. 2) Understand innovation and innovation diffusion, and analyze various cases of innovation diffusion in agriculture 3) Can analyze the needs of stakeholders and communication media used to 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	Individual test (20%) Project group (20%) Group Performance (20%)	Discussion, Case method, Project based team
	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	- case method, - team based project

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 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		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 application of science, technology, and art. 5) 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 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	(10%) Performance (50%) Performance, oral exam (40%)	
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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	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	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	<i>Thesis</i>	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 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	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method team based project

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		phenomena using precise and accurate references		
		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.
		Population and development	1) Distinguish between demographics and population 2) Arrange the composition of the population 3) Conduct an analysis of population dynamics 4) Analyze the linkages between population and agriculture 5) closing of the Population Policy 6) explanation of the uses and functions of population projections	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	Agrarian Studies	1) Able to describe and explain the scope of agrarian studies 2) Able to analyze agrarian law and policy in Indonesia 3) Able to explain the urgency, history, rationale, and analyze the dilemmas, challenges and struggles of agrarian reform 4) Able to diagnose the types and causes of various agrarian conflicts and design comprehensive solutions for their resolution	Individual test (40%) Project group (60%)	- 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 19. Able to consult adequate literature and information sources and coordinate the work of experts				

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 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		Planning and Evaluation of Agricultural Extension Programs; students can arrange programs and develop evaluations.		
SSC 6. Have the necessary knowledge and understanding to identify and formulate problems	Human Ecology	1) 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 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		2) Discuss human perception of the environment 3) Classify the factors causing the sustainability/unsustainability of human-environment interaction 4) Applying human ecology in development practice		
	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	Organization and Leadership	The focus of this course is on three main topics, namely groups, organizations, and leadership. A basic understanding of group and organizational theory will contribute to managerial skills in managing farmer and agricultural institutions, both in the form of groups and organizations. The ability to manage agricultural institutions must be supported by leadership capabilities. Therefore,	Team-based projects (50%) Tasks (5%) Quiz (5%) MIDTERM EXAM (20%) FINALEXAM (20%)	Discussions, Presentations, Project Based Teams

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		an understanding of the basics of leadership is taught in this course.		
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, Case 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	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 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 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 efficiently both individually and collectively	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/institutions that are just and sustainable socially, culturally, economically and ecologically.	Written test (40%) Task presentation (40%) Group project report (20%)	- discussion - present - case study
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	- Discussion - case method

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		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	(20%) FINALEXAM (20%)	
SSC 6. Have the necessary knowledge and understanding to identify and formulate problems that arise in the fields of	Community Participatory Development	1) Understand the paradigm of participatory development, the basic concept of participatory development, the dimensions of	Individual test (20%) Project group (20%)	Discussion, Case 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	Group Performance (20%)	
	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	Real Work 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	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			application of science, technology, and art. 5) 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 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 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	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	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		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 interdisciplinary approach, in order to improve their intellectual abilities.		
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	<i>Thesis</i>	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%)	- case method, - team based project

	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

	communication and 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 consult adequate literature and information sources and coordinate the work of experts SSC 26. Proficient in the field of communication, for example in making presentations or moderating		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		
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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%)	- Discussion - case method - Project based team.
	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%)	- 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				
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	1) Distinguish between demographics and population 2) Arrange the composition of the population 3) Conduct an analysis of population dynamics 4) To analyze the relationship between population and agriculture. 5) closing of the Population Policy 6) explanation of the uses and functions of population projections	Case method (30%) Team Based Projects (30%) Tasks (10%) MIDTERM EXAM (15%) FINALEXAM (15%)	- discussion - present - case study

	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 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,	Agrarian Studies	1) Able to describe and explain the scope of agrarian studies 2) Able to analyze agrarian law and policy in Indonesia 3) Able to explain urgency, history, rationale, and analyze dilemmas, challenges, and struggles for agrarian reform	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 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		4) Able to diagnose the types and causes of various agrarian conflicts and design comprehensive solutions for their resolution		
	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

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 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	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 Instruments; and Data, Data	individual test (40%) group projects (60%)	Lectures, group discussions, assignments

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 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

Collection Techniques, and Data Analysis

	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 25. Have competency in accordance with the discipline in management and marketing, especially project management, acquisition, personnel management, and control	Real Work 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 application of science, technology, and art. 5) 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 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	Observation, participation, performance (10%) Performance (50%) Performance, oral exam (40%)	- case method, - team based project
	SSC 6. Have the necessary knowledge and	Apprenticeship	1) Students can understand and practice	Observation, participation,	- case method, - team based

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 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 25. Have competency in accordance with the discipline in management and marketing, especially project management, acquisition, personnel management, and control		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 interdisciplinary approach, in order to improve their intellectual abilities.	performance (10%) Performance (50%) Performance, oral exam (40%)	project
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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 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	<i>Thesis</i>	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
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	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 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				
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