SYLLABUS

COURSE

RESEARCH METHODOLOGY

(EKO1328)

Lecturer Team:

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DEVELOPMENT ECONOMICS STUDY PROGRAM
DEPARTMENT OF ECONOMICS
FACULTY OF ECONOMICS AND MANAGEMENT
IPB UNIVERSITY
2024

IPB University — Bogor Indonesia	**IPB UNIVERSITY** **FACULTY OF ECONOMICS AND MANAGEMENT** **DEPARTMENT OF ECONOMICS** **DEVELOPMENT ECONOMICS STUDY PROGRAM**

SEMESTER LESSON PLANS (RPS)

Course Name (MK)	Course Code	Course Cluster	Weight (credits)		Semester	Approval Date
Research Methodology	EKO1328	In-depth Prodi Courses	Lecture: 2	Practicum: 1	6	10 Juni 2024
	Total student workload:		**Face-to-face:**	**Independent learning:**	**Maximum class size:**	
	135 Hours		60 Hours	75 Hours	100 Students	

AUTHORIZATION / APPROVAL	**RPS Developer Lecturer**	**Course Coordinator**	**Head of Study Program**
	Signature Prof. Bambang Juanda	Signature Prof. Bambang Juanda	Signature Dr. Tony Irawan

Course Category	~~CCC~~/~~FC~~/~~FL~~/~~ACC~~/IC/~~Final Year Project~~	
Course Description	This course provides knowledge of various research methods that are useful and need to be understood by students of Economics, covering: the definition and process of research, scientific research approaches, research topics and problems, frameworks, research hypotheses, data collection methods, research instruments, sampling methods, a review of various analysis methods, and guidelines for writing scientific papers. This course is project-based learning, with the project consisting of the practice of writing a scientific proposal.	
Intended Learning Outcomes (ILOs) of the Study Program	**Study Program Learning Outcomes Assigned to the Course**	
	ILO 1	Possessing skills in applying analytical methods, economic concepts, and theories in line with the development of science and technology for decision-making, problem-solving, and planning, both on a micro and macro scale for the benefit of development, society, and business.
	ILO 2	Mastering concepts, theories, and analytical methods in the field of economics both micro and macro, including its branches.
	ILO 3	Able to communicate verbally and in writing in the field of economics logically, creatively, and innovatively by utilizing the development of science and technology, interacting with society, and making decisions responsibly both independently and in groups.
Course Learning Outcomes	**Learning Outcomes (CLOs)**	
	CLO 1	Students are able to identify and formulate research problems and derive hypotheses to be tested with empirical data.
	CLO 2	Students understand, explain, and apply scientific approaches and technical guidelines for writing scientific papers during the research/writing process.
	CLO 3	Students understand, explain, and accurately differentiate between various research methods.
	CLO 4	Students are able to write proposals/scientific papers and possess critical thinking skills, communicate effectively both orally and in writing, work independently, and manage their time effectively.
	Sub-Learning Outcomes (Sub-CLOs)	

	Sub-CLO 1	Students are able to accurately explain the definition of methodology development, contributions, processes, types of research, and scientific thinking approaches.			
	Sub-CLO 2	Students are able to explain and create examples of problem formulation, theoretical review, frameworks, and research hypotheses as well as accurately identify various research designs.			
	Sub-CLO 3	Students are able to compare and determine the basic design for exploratory, descriptive, causal research, as well as forms of action research and experiments in economics accurately.			
	Sub-CLO 4	Students are able to determine data classification, data measurement process, scales of measurement results, data measurement instruments, and conduct validity and reliability testing of the instruments accurately.			
	Sub-CLO 5	Students are able to analyze sampling techniques appropriate for the research.			
	Sub-CLO 6	Students are able to apply basic principles of data analysis methods and create research proposals that adhere to proper standards.			
Relevance of CLO and Sub-CLO *Tick (✓) according to relevance*		**CLO 1**	**CLO 2**	**CLO 3**	**CLO 4**
	Sub-CLO 1	V		V	
	Sub-CLO 2	V	V	V	V
	Sub-CLO 3	V	V	V	V
	Sub-CLO 4	V	V	V	
	Sub-CLO 5	V	V	V	
	Sub-CLO 6	V	V	V	V
Course offered for	✓ Major				
Main References	1. Juanda, B. 2009. *Metodologi Penelitian Ekonomi dan Bisnis*. 2nd Edition. Bogor: IPB Press (BJ) 2. Ethridge, D. 1995. *Research Methodology in Applied Economics: Organizing, Planning, and Conducting Economic Research. Iowa: Iowa State Univ. Press.* (DE) 3. Johnson, G.L. 1986. *Research Methodology for Economists: Philosophy and Practice*. New York: Macmillan Publishing Company 4. Zikmund, W.G. 1997. *Business Research Methods*. Fort Worth: Dryden Press. (WGZ) 5. Malhotra, N.K. 1999. *Marketing Research: An Applied Orientation*. 3rd eds. New Jersey: Prentice Hall Inc. (NKM) 6. Tim IPB. 2001. *Pedoman Penulisan dan Penyajian Karya Ilmiah*. Bogor: IPB Press. (IPB) 7. Creswell, J.W. 1994. *Research Design: Qualitative and Quantitative Approaches.* California: SAGE Publications, Inc. (JWC)				
Lecturers (Teaching Team)	1. Prof. Dr. Ir. Bambang Juanda, MS (coordinator) 2. Dr. Ir. Yeti Lis Purnamadewi, M.Sc.Agr 3. Dr. Widyastutik, SE, M.Si 4. Dr. Lukytawati Anggraeni, SP, M.Si 5. Dr. Ir. Wiwiek Rindayati, MS 6. Dr. Deniey Adi Purwanto, SE, MSE 7. Dr. Heni Hasanah, SE, M.Si 8. Fahmi Salam Ahmad, S.Stat, M.Si				

Table 1. Lesson Plan for Each Meeting

Week	Basic Competence/ Final Skills (Sub-CLO)	Study Material	Learning Method	Estimated Time (Minutes)	Learning Experience	Indicator	Assessment Criteria	Assessment Weight (%)
Students are able to:								
1	Students are able to accurately explain the definition of methodology development, contributions, processes, types of research, and scientific thinking approaches.	● Definition of research ● Development of research methodology ● Role of research ● Research process ● Types of research ● Examples of research	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in explaining the definition, development of methodology, contribution, process, types, and examples of research	● Project Outcome: Scientific paper proposal ● Cognitive / Knowledge: Midterm Exam (UTS)	
2	Students are able to accurately explain the definition of methodology development, contributions, processes, types of research, and scientific thinking approaches.	● Scientific thinking approach ● Deductive and inductive approaches ● Scientific nature and quality of research ● Introduction to scientific philosophy	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in explaining scientific thinking approaches	● Project Outcome: Scientific paper proposal ● Cognitive / Knowledge: Midterm Exam (UTS)	
3	Students are able to explain and create examples of problem formulation, theoretical review, frameworks, and research hypotheses as well as accurately identify various research designs.	● Importance of precision and clarity in problem formulation ● Research topics and problems ● Sources of research topics and problems ● Some important aspects in selecting research topics and research problems	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in explaining the needs and process of problem formulation in research	● Project Outcome: Scientific paper proposal ● Cognitive / Knowledge: Midterm Exam (UTS)	5
4	Students are able to explain and create examples of problem formulation, theoretical review, frameworks, and research hypotheses as well as accurately identify various research designs.	● Theory and its role ● Review of relevant theories and previous research ● Framework ● Research hypothesis	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in explaining the role of theories, developing frameworks, and formulating research hypotheses	● Project Outcome: Scientific paper proposal ● Cognitive / Knowledge: Midterm Exam (UTS)	5

5	Students are able to explain and create examples of problem formulation, theoretical review, frameworks, and research hypotheses as well as accurately identify various research designs.	• Definition of research design • Types and selection of research design • Survey design	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in determining research designs and identifying various research designs	• Project Outcome: Scientific paper proposal • Cognitive / Knowledge: Midterm Exam (UTS)	5
6	Students are able to compare and determine the basic design for exploratory, descriptive, causal research, as well as forms of action research and experiments in economics accurately.	• Experimental design • Survey vs. experimental design	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in comparing basic designs for exploratory, descriptive, and causal research	• Project Outcome: Scientific paper proposal • Cognitive / Knowledge: Midterm Exam (UTS)	5
7	Students are able to compare and determine the basic design for exploratory, descriptive, causal research, as well as forms of action research and experiments in economics accurately.	• Experiments in economics • Action research	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in explaining forms of action research and experiments in economics	• Project Outcome: Scientific paper proposal • Cognitive / Knowledge: Midterm Exam (UTS)	5
8	Exams to evaluate material mastery by students on the material of Meeting 1 up to Meeting 7	• Material from Meeting 1 to Meeting 7	Completing written exam questions	**2x60"**	Understanding the material taught, both in theory and in its practical application in the real world.	Completeness and accuracy of explanations in answering exam questions	• Paper-based written exam to assess understanding of the material	25
9	Students are able to determine data classification, data measurement process, scales of measurement results, data measurement instruments, and conduct validity and reliability	• Definition and role of data • Data classification • Data measurement process • Measurement instrument • Measurement scale • Types of variables	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in explaining the classification and process of data measurement, scales of measurement results, and types of variables	• Project Outcome: Scientific paper proposal • Cognitive / Knowledge: Final Exam (UAS)	

	testing of the instruments accurately.							
10	Students are able to determine data classification, data measurement process, scales of measurement results, data measurement instruments, and conduct validity and reliability testing of the instruments accurately.	● Instruments for survey and experimental design ● Questionnaire ● Interview ● Observation ● Development of science depends on research methodology	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in explaining and designing various data measurement instruments	● Project Outcome: Scientific paper proposal ● Cognitive / Knowledge: Final Exam (UAS)	
11	Students are able to determine data classification, data measurement process, scales of measurement results, data measurement instruments, and conduct validity and reliability testing of the instruments accurately.	● Concepts, operational definitions, and variables ● Validity and reliability ● Validity test ● Reliability test: Split-Half Reliability, Kuder-Richardson Technique, Cronbach's Alpha Technique	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in explaining UT'S concepts, operational definitions, variables, and conducting validity and reliability tests on instruments	● Project Outcome: Scientific paper proposal ● Cognitive / Knowledge: Final Exam (UAS)	
12	Students are able to analyze sampling techniques appropriate for the research.	● Why researchers observe samples ● Some terminology in sampling ● Sampling stages ● Types of sampling techniques ● Non-probability sampling: Convenience sampling, Purposive (judgment) sampling, Quota sampling	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in explaining the reasons why researchers observe samples; and understanding various types of sampling techniques	● Project Outcome: Scientific paper proposal ● Cognitive / Knowledge: Final Exam (UAS)	
13	Students are able to analyze sampling techniques appropriate for the research.	● Probability sampling: Simple random sampling, Systematic random sampling, Stratified sampling, Cluster sampling ● Determining sample size	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in analyzing the appropriate sampling techniques that represent the research population;	● Project Outcome: Scientific paper proposal ● Cognitive / Knowledge: Final Exam (UAS)	

						and determining sample size		
14	Students are able to apply basic principles of data analysis methods and create research proposals that adhere to proper standards.	● Data collection and editing ● Descriptive analysis ● Statistical inference analysis ● Review of economic modeling	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in explaining the basic principles of data analysis methods commonly used in research	● Project Outcome: Scientific paper proposal ● Cognitive / Knowledge: Final Exam (UAS)	
15	Students are able to apply basic principles of data analysis methods and create research proposals that adhere to proper standards.	● Definition and characteristics of scientific work ● Content of research proposal ● Writing scientific work	Face-To-Face/Online Lecture, Discussion, Video, Power Point (PPT)	**Lecture:** 2 x 50' **Practicum:** 3 x 50'	Studying theories and interactive discussion	The accuracy and completeness of students in explaining the guidelines for writing scientific papers and composing research proposals	● Project Outcome: Scientific paper proposal ● Cognitive / Knowledge: Final Exam (UAS)	25
16	Students are capable of completing written exam questions to evaluate their mastery of the material from Meeting 9 through Meeting 15	● Material from Meeting 9 to Meeting 15	Completing written exam questions	**2x60"**	Understanding the material taught, both in theory and in its practical application in the real world.	Completeness and accuracy of explanations in answering exam questions	● Paper-based written exam to assess understanding of the material	25

Table 2. Assessment Components

No	Assessment Component	Weight (%)	Description
1.	Participatory Activities		
2.	Project Outcome	50	Writing and presenting a scientific paper proposal, with coverage including: formulating the problem, reviewing the theory, framework, and research hypotheses as well as determining the appropriate research methods.
3.	Cognitive/Knowledge		
	● Assignment		
	● Quiz		
	● Midterm Exam (UTS)	25	Exam to evaluate students' mastery of the material for sub-CLO 1 to sub-CLO 3
	● Final Exam (UAS)	25	Exam to evaluate students' mastery of the material for sub-CLO 4 to sub-CLO 6
	Total Weight (%)	**100**	