



IPB University  
— Bogor Indonesia —

Department of Resource and  
Environmental Economics  
*Faculty of Economic and Management*

# ACADEMIC PROGRAM BOOK

Resource and Environmental  
Economics  
Undergraduate Program



@ico\_ipb



global.ipb.ac.id



Bogor, Indonesia

# LEARNING OUTCOME

## ATTITUDE

- 1** Have faith in God Almighty and be able to show a religious attitude
- 2** Upholding human values in carrying out duties based on religion, morals and ethics
- 3** Contribute to improving the quality of life in society, nation, state and civilization based on Pancasila
- 4** Acting as a citizen who is proud and loves the country, has nationalism and a sense of responsibility to the state and nation
- 5** Respect the diversity of cultures, views, religions and beliefs, as well as the original opinions or findings of others
- 6** Working together and having social sensitivity and concern for society and the environment
- 7** Obey the law and be disciplined in social and state life
- 8** Internalize academic values, norms and ethics
- 9** Demonstrate a responsible attitude towards work in their field of expertise independently
- 10** Internalize the spirit of independence, struggle and entrepreneurship

# LEARNING OUTCOME

## GENERAL SKILLS

- 1** Able to apply logical, critical, systematic and innovative thinking in the context of developing or implementing science and technology by paying attention to and applying humanities values appropriate to their field of expertise
- 2** Able to demonstrate independent, quality and measurable performance
- 3** Able to study the implications of the development or implementation of science and technology by paying attention to and applying humanities values according to their expertise based on scientific rules, procedures and ethics in order to produce solutions, ideas, designs or art criticism
- 4** Able to compile a scientific description of the results of the study above in the form of a thesis or final assignment report, and upload it on the university website
- 5** 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
- 6** Able to maintain and develop working networks with supervisors, colleagues, colleagues both inside and outside the institution
- 7** Able to be responsible for the achievement of group work results and supervise and evaluate the completion of work assigned to workers under his/her responsibility
- 8** Able to carry out a self-evaluation process for work groups under their responsibility, and able to manage learning independently
- 9** Able to document, store, secure and retrieve data to ensure validity and prevent plagiarism
- 10** Able to use the Internet of Things for learning activities and completing work

# LEARNING OUTCOME

## KNOWLEDGE

- 1** Master the economic concepts in the fields of agriculture, resources and the environment
- 2** Master the concepts of natural science and socio-economics in the fields of agriculture, resources and the environment
- 3** Have knowledge of technical aspects in the fields of agriculture, resources and the environment
- 4** Master the knowledge about analytical methods in the fields of agricultural economics, resources and the environment

## SPECIAL SKILLS

- 1** Able to interpret sustainable agricultural, resource and environmental management using qualitative and quantitative approaches appropriately in the public sector
- 2** Able to solve problems in the fields of agricultural economics, resources and the environment comprehensively for the development of these three fields in the future
- 3** Able to accurately assess the characteristics of renewable and non-renewable natural resources that support ecosystem sustainability
- 4** Able to solve economic problems through an effective and efficient optimization approach in the agricultural and resource sectors
- 5** Applying various economic efficiency theories to comprehensively support entrepreneurship activities in the business sector

# LEARNING OUTCOME

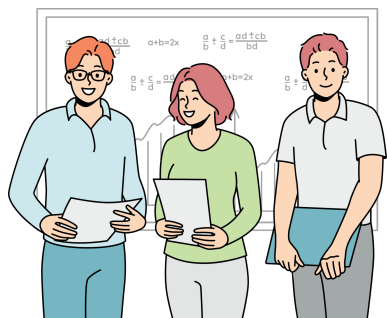
## SPECIAL SKILLS

- 6** Applying various marketing and trade concepts to support the development of agriculture, resources and the environment globally
- 7** Able to calculate the extraction of renewable and non-renewable resources in a sustainable manner based on economic, social and institutional parameters
- 8** Able to apply economic calculations for resources and the environment using appropriate and systematic economic valuation techniques in the fields of agriculture, resources and the environment
- 9** Able to analyze various sustainable agricultural development policies comprehensively
- 10** Able to analyze the feasibility of agricultural projects, resources and the environment using a comprehensive economic analysis approach
- 11** Able to analyze the economic value of damage using a precise and systematic economic approach in the fields of resources and the environment
- 12** Create simple mathematical modeling designs for systematic and dynamic management of agriculture, natural resources and the environment
- 13** Resolving institutional problems in agricultural, resource and environmental management with an efficient institutional economics approach



# PROFILE

## SNAPSHOTS



**408**  
students

**18**  
of lecturers  
have doctoral  
degree

**11**  
of lecturers  
have master's  
degree

**4**  
of lecturers are  
professors



## ACCREDITATION



Accredited by BAN-PT

# PROFILE

## A Brief History

The Department of Environmental and Resource Economics (ESL Department) was officially established on January 10, 2005 through the Decree of IPB Rector No. 101/K13/PP/2005. ESL Department is one of the departments under the Faculty of Economics and Management (FEM) of IPB in accordance with the Decree of IPB Rector No. 112/K13/OT/2005 dated August 2, 2005.

ESL Department is the first department in Indonesia that studies the processing of resources and the environment from the perspective of economic theory and examines its impact on society as a whole, both as actors and beneficiaries. The three scientific fields developed are Agricultural Economics, Resource Economics, and Environmental Economics.

## Vision

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## Mission

- Organizing multistrata higher education to produce graduates who have competence in the field of agricultural economics, sustainable resources and the environment and are able to compete at the international level.
- Developing agricultural economics, resources and the environment through teaching, research and community service activities
- Providing critical views and alternative solutions to the problems of agricultural development, resources, and the environment for the realization of community welfare.

# CURRICULUM

## Program Structure

### Program Scheme

**Single Degree  
(3.5 + 0.5)**

3.5 years at IPB University  
0.5 year at partner University





# CURRICULUM

## Course Mapping

### Common Core Courses & Fundamental Courses

| Courses                          | Credit | Semester |
|----------------------------------|--------|----------|
| Islam                            | 3(2-1) | 2        |
| Christianity                     | 3(2-1) | 1        |
| Catholic Religion                | 3(2-1) | 1        |
| Hindu Religion                   | 3(2-1) | 1        |
| Buddhism                         | 3(2-1) | 1        |
| Confucian Religion               | 3(2-1) | 1        |
| Pancasila Education              | 1(1-0) | 2        |
| Civic Education                  | 1(1-0) | 2        |
| Indonesian                       | 2(1-1) | 2        |
| English*                         | 2(0-2) | 1        |
| General Chemistry                | 2(2-0) | 2        |
| General Physics                  | 2(2-0) | 1        |
| General Biology                  | 2(2-0) | 1        |
| Innovative Agriculture           | 2(2-0) | 1        |
| Basic Economics                  | 3(2-1) | 1        |
| Mathematics and Logical Thinking | 3(2-1) | 1        |
| Statistics and Data Analysis     | 3(3-0) | 1        |
| Computational Thinking           | 2(2-0) | 2        |
| Sociology                        | 2(2-0) | 2        |
| Sports and Arts*                 | 1(0-1) | 1        |
| Entrepreneurial Activities*      | LH     | 2        |
| Calculus I                       | 3(2-1) | 2        |

### Foundational Literacies & Academic Core Courses

| Courses   | Credit | Semester |
|---|--------|----------|
| Microeconomy Theory I                                       | 3(2-1) | 3        |
| Macroeconomy Theory I                                       | 3(2-1) | 3        |
| Economic Math   | 3(2-1) | 3        |
| Statistical Methods for Agricultural and Resource Economics | 3(2-1) | 3        |
| Basic Econometrics for Agriculture and Resources            | 3(2-1) | 4        |
| Applied Economics for Agriculture and Resources             | 3(2-1) | 6        |
| Tourism Economy and Digital Nomads                          | 3(2-1) | 4,5      |

# CURRICULUM

## Course Mapping

### Foundational Literacies & Academic Core Courses

| Courses   | Credit | Semester |
|---|--------|----------|
| Agricultural and Food Economics                             | 3(3-0) | 3,4      |
| Resource Economics  | 3(3-0) | 3,4      |
| Environmental Economics                                     | 3(3-0) | 3,4      |
| Production Economics  | 3(2-1) | 4        |
| Economic Valuation of Natural Resources and The Environment | 3(2-1) | 4        |
| Resource Economics II                                       | 4(3-1) | 4,5      |

### In-depth Study Program Courses

| Courses  | Credit | Semester |
|--|--------|----------|
| Agricultural Trade   | 3(3-0) | 5        |
| Cost and Benefit Analysis  | 3(2-1) | 6        |
| Agricultural and Resource Modeling                                     | 3(2-1) | 6        |
| Agricultural Price Theory  | 3(3-0) | 5        |
| Applied Econometrics for Agriculture and Resources                     | 3(2-1) | 6        |
| Economic Assessment of Damage to Natural Resources and The Environment | 3(2-1) | 6        |
| Research Methodology   | 3(2-1) | 6        |
| Marketing and Market Analysis  | 3(3-0) | 5        |
| Agriculture and Food Policy  | 3(3-0) | 5        |
| The Political Economy of Resources                                     | 3(3-0) | 5        |
| Energy Economics   | 3(3-0) | 5        |
| Economics of Sustainable Development                                   | 3(3-0) | 5        |
| Climate Change and Disasters   | 3(3-0) | 5        |

# CURRICULUM

## Course Mapping

### Final Year Project, Capstones, KKNT, Internship

| Courses   | Credit | Semester |
|---|--------|----------|
| Colloquium  | 1      | 7        |
| Seminar   | 1      | 8        |
| Thesis  | 6      | 8        |
| Agricultural Development, Resources, and Sustainable Environment Management of Sustainability | 3      | 6        |
| Sustainability Project Experiences  | 3      | 7        |
| Thematic Real Work Lectures   | 4(0-4) | 7        |

### Enrichment Courses

| Courses  | Credit | Semester         |
|--|--------|------------------|
| Courses from other programs in IPB Summer Courses, Sustainability, Community, Development, and Natural Resource Management | 3      |                  |
| Another IPB Summer Course  | 3      |                  |
| Summer Course outside IPB which can be equivalent to IPB 300 (Domestic/Foreign)  | 3      |                  |
| Courses from other programs outside IPB Credit Earning outside IPB (Domestic/Foreign)                                      |        | 3, 4, 5, 6, 7, 8 |
| Internship (Domestic/Foreign)  |        |                  |
| Exchange/International Exposure  |        |                  |
| Competition  |        |                  |
| Entrepreneur Schemes   |        |                  |
| Independent Project/ Village Program/ Research   |        |                  |

# ACTIVITIES



Summer Course Program 2023



Joint Seminar Program with UPM Malaysia



Visit to ESL assisted Villages



Dynamic Modeling Training



Fieldtrip of Economics of Tourism Course



Guest Lecture

# INTERNATIONAL COLLABORATION

## List of International Collaboration

| Country/Region |          | Affiliated Partners  |
|----------------|----------|--|
| Universities   | Malaysia | Universiti Putra Malaysia<br>International Islamic University Malaysia<br>Universiti Kebangsaan Malaysia |



الجامعة الإسلامية العالمية ماليزيا  
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA  
يونسيفي الشارقة ايجسا بلديسما



# CONTACT

## The Faculty Campus

The campus of the Department Resource and Environmental Economics an Campus is located in Bogor City. The closest train station is Bogor Station. With easy access to neighboring cities, the campus is just 60 minutes from Jakarta on Commuter Line, making it convenient for students to commute from out of town. The rich natural surroundings provide students with an ideal environment to study.

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