



Subject Module
 Department of Agribusiness
 Faculty of Agriculture
 University of Islam Malang

Module Handbook

Module Title	Project Evaluation
Module Level, if available	Undergraduate Study Program of Agribusiness
Course Code	MKW60706
Headings, if available	-
Course (MK)	Project Evaluation
Semester	6
Course Coordinator	Dr. Ir. Nikmatul Khoiriyah, M.P.
Teaching Team	-
Language of instruction	Indonesian language/English
Linkages with the Curriculum	Study Program : Agribusiness Specialization: Agribusiness Type: Compulsory /Elective
Learning Methods and Duration	1. Lecture: 100 minutes/meeting (14 meetings) 2. Structured Assignments/individual and group Assignments presentation
Student Study Load	1. Lecture: 100 minutes/meeting (14 meetings) 2. Structured Assignments/quiz/group presentation 3. Attendance: 75% of total attendance
Credit Weight	2 credits or 3,4 ECTS
Requirements for Passing the Course	<ul style="list-style-type: none"> Attendance $\geq 75\%$ The final score of all the components of the learning evaluation ≥ 50 The final score component: <ul style="list-style-type: none"> 30% Midterm Exam 30% Final Exam 30% Structured Assignments (individual and group) 10% Presence
Prerequisite Courses	Mathematics of Economics
Learning Outcomes	The expected learning outcomes are: <ol style="list-style-type: none"> Able to understand the rules and principles of agribusiness sciences, social sciences, economics, and agricultural techniques as the basic for innovative agribusiness disciplines (ILO 2) Able to apply a variety of fundamentally oriented methods to solve specific practical problem related to agribusiness (ILO 5)
Learning Content	After completing this course students are able to: <ol style="list-style-type: none"> Able to explain the concept, definition and purpose of project analysis, financial analysis and economic analysis, the real price and shadow price Able to calculate five kinds of investment criteria, calculate Net Present Value (NPV), calculate Gross B/C

	<p>ratio, calculate Net B/C ratio, calculate the Internal rate of Return (IRR)</p> <ol style="list-style-type: none"> 3. Able to explain and calculate Incremental B / C ratio, calculate other IRR, calculate sensitivity analysis as well as decide on tolerable interest rates for increases in bank interest rates, and calculate Domestic Resources Cost (DRC) 4. Able to decide whether the project is feasible or not using investment criteria 5. <p>The topics include:</p> <ol style="list-style-type: none"> 1. Introduction <ul style="list-style-type: none"> • The importance of Book 1 and Book 4, articles 1, 2 and 3 2. The concept of financial analysis and economic analysis <ul style="list-style-type: none"> • Book 1 and Book 3, articles 1, 2 and 4 3. Real price and shadow price <ul style="list-style-type: none"> • Book 1 and Book 4, articles 1, 3 and 5 4. Investment Criteria: Discount factor, future value, annuity factor, etc. <ul style="list-style-type: none"> • Book 2 and Book 4, articles 2 and 5 5. Net Present Value (NPV) <ul style="list-style-type: none"> • Book 3 and Book 4, articles 5, 6 and 7 6. Gross B / C ratio <ul style="list-style-type: none"> • Book 1 and Book 3, articles 5, 7 and 8 7. Net B / C ratio <ul style="list-style-type: none"> • Book 2 and Book 4, articles 7 and 8 8. Internal Rate of Return (IRR) <ul style="list-style-type: none"> • Book 3 and Book 4, articles 4, 5 and 6 9. Incremental B / C ratio <ul style="list-style-type: none"> • Book 1 and Book 2, articles 3, 4 and 5 10. Incremental B / C ratio <ul style="list-style-type: none"> • Book 3 and Book 4, articles 8, 9 and 10 11. IRR difference <ul style="list-style-type: none"> • Book 1 and Book 3, articles 1 and 2 12. IRR difference <ul style="list-style-type: none"> • Book 3 and Book 4, articles 5, 7 and 8 13. Domestic Resources Costs (DRC) <ul style="list-style-type: none"> • Book 3 and Book 4, articles 8, 9 and 10 14. Capable of Sensitivity Resources <ul style="list-style-type: none"> • Book 3 and Book 4, articles 8, 9 and 10
Test Terms and Forms	<p>Examination requirements: A minimum of 75 % attendance to attend the final exam</p> <p>Forms of examination: Essay</p>
Learning Media	<p>Projector and screen, Zoom application, Google Classroom, e-book, WA Group, Learning Management System (LMS UNISMA)</p>
References	<p>Main References :</p> <ol style="list-style-type: none"> 1. Gittinger, J. P. (1993). Analisis Proyek-Proyek Pertanian. 2. Primyastanto, M. (2009). Buku Ajar Evaluasi Proyek Usaha edisi 2009/2010. <i>Laboratorium Terpadu Sosial Ekonomi Perikanan. Universitas Brawijaya, Malang.</i> 3. SETIADI, A., & HANDAYANI, M. (2004). STUDI KELAYAKAN DAN EVALUASI PROYEK 4. Lovarelli, D., Falcone, G., Orsi, L., & Bacenetti, J. (2019). Agricultural small anaerobic digestion plants: Combining economic and environmental assessment. <i>Biomass and</i>

Bioenergy, 128, 105302.

Supporting References :

1. Prol, J. L., & Steininger, K. W. (2020). Photovoltaic self-consumption is now profitable in Spain: Effects of the new regulation on prosumers' internal rate of return. *Energy Policy*, 146, 111793.
2. Abdelrahman, T. E. E. Consensus and Contrdiction between Internal Rate of Return and Net Present Value in comparing two Mutually Exclusive Projects.
3. Metzger, C. (2019). Accounting of the German Statutory Pension Scheme: Balance Sheet, Cross-Sectional Internal Rate of Return and Implicit Tax Rate. *Fiscal Studies*, 40(2), 239-270.
4. Ardian, A., & Kumral, M. (2020). Incorporating stochastic correlations into mining project evaluation using the Jacobi process. *Resources Policy*, 65, 101558.
5. Ravi, P., Obulesh, A., & Reddy, A. M. (2020). Training-Domain-Process-Evaluation Framework for Web-Based Industry-Oriented Mini-Project. *Journal of Engineering Education Transformations*, 33, 329-333.
6. Haass, O., & Guzman, G. (2019). Understanding project evaluation—a review and reconceptualization. *International Journal of Managing Projects in Business*.
7. Poh, K. L., Ang, B. W., & Bai, F. (2001). A comparative analysis of R&D project evaluation methods. *R&D Management*, 31(1), 63-75.
8. Liu, A. M., & Walker, A. (1998). Evaluation of project outcomes. *Construction Management & Economics*, 16(2), 209-219.
9. Iftikhar, Z., Eriksson, I. V., & Dickson, G. W. (2003). Developing an instrument for knowledge management project evaluation. *Electronic Journal of Knowledge Management*, 1(1), 55-62.
10. Asosheh, A., Nalchigar, S., & Jamporazmey, M. (2010). Information technology project evaluation: An integrated data envelopment analysis and balanced scorecard approach. *Expert Systems with Applications*, 37(8), 5931-5938.

