

**Department of Agricultural Economics**  
**APEC Program plan of performing direct assessment**

**First, APEC program Student LO's redefined:**

Most LO is now expressed in a manner that indicates an assessment method as well as desired performance criteria. Table (i) presents the *new* LOs.

**Second, Assessment cycle for all learning outcomes:**

The cycle describes the time horizon for assessing all LO's. It starts with assessing three LO's in semester 1 for the current academic year 1435/36 (coded as "13536" in table (ii)). Each successive semester two new LO's will be assessed in addition to the ones assessed in previous semester(s). In a span of five years each LO's would be assessed at least once.

**Table (i): APEC Program Student Learning Outcomes.**

LO #	NQF Learning Domains and Learning Outcomes	Teaching Strategies	Assessment Methods
<b>1.0</b>	<b>Knowledge</b> <i>Upon successful completion of the program students will be able to:</i>		
1.1	Define the domain of the science of agricultural economics by identifying at least 3, 5, and 6 of its main branches in levels 1, 3, and 7 respectively.	- Lectures. - Tutorials. - Field visits.	- In class written interterm tests (2-3) spaced at monthly intervals. - A final exam. - Weekly homework assignments. - In class oral presentations.
1.2	Describe the basic principles and theoretical concepts in agricultural economics by achieving a minimum of 80% on a quiz covering demand, supply, utility, production, and cost theories.	- Lectures. - Tutorials. - Discussions.	- In class written interterm tests (2-3) spaced at monthly intervals. - A final exam. - Weekly homework assignments.
1.3	Demonstrate skills regarding the information technology aspects (MS Excel, PowerPoint, and word processors) in relevance to agricultural economics by scoring an average of at least 70% on weekly assignments.	- Lectures. - Tutorials. - Practical sessions (computer lab).	- In class written interterm tests (2-3) spaced at monthly intervals. - Weekly in-lab assignments. - Homework assignments.
1.4	Outline issues related to the agricultural sector: natural resource policies, environmental economics, planning and policy, cooperative marketing, ecotourism, international trade, water economics, and rural community development by scoring at least 80% on questions related to these issues.	- Lectures. - Tutorials. - Discussions.	- In class written interterm tests (2-3) spaced at monthly intervals. - A final exam. - Weekly homework assignments. -
1.5	Describe quantitative (econometric and	- Lectures.	- In class written intraterm tests

	linear programming) modeling techniques and computer programs used in data analysis by scoring at least 80% of the grade on a relevant final exam item.	- Tutorials. - Practical sessions (computer lab).	(2-3) spaced at monthly intervals. - A final exam. - Weekly homework assignments.
<b>2.0</b>	<b>Cognitive Skills</b> <i>Upon successful completion of the program students will be able to:</i>		
2.1	Perform basic algebra and introductory calculus operations in the context of applied economic analysis and optimization as judged by obtaining at least 80% on an exam question specifically designed to measure this outcome.	- Lectures. - Tutorials.	- In class written intraterm tests (2-3) spaced at monthly intervals. - Quizzes - Weekly homework assignments.
2.2	Collect data and information, perform analysis using economic concepts, interpret results, and draw inferences or conclusions by obtaining at least 75% on graduation project evaluation.	- Lectures. - Tutorials. - Practical sessions (computer lab).	- In class written intraterm tests (2-3) spaced at monthly intervals. - Weekly homework assignments.
2.3	Explain microeconomic theoretical concepts at the preliminary level, including: producer theory, consumer theory, how markets work and prices are formulated, and welfare theory, as shown by a minimum score of 75% on a relevant question.	- Lectures. - Tutorials. - Discussions.	- In class written intraterm tests (2-3) spaced at monthly intervals. - Weekly homework assignments.
2.4	Construct, read, and explain graphical and tabular representation of data; a minimum of 75% score on a relevant question is expected.	- Lectures. - Tutorials. - Discussions.	- In class written intraterm tests (2-3) spaced at monthly intervals. - Weekly homework assignments. - In class presentations.
2.5	Apply concepts, approaches, and methods (regression and descriptive statistics) taught in various curricula to analyze commodity markets and economic data by obtaining at least 75% on the relevant component on graduation project evaluation.	- Lectures. - Tutorials. - Discussions.	- In class written intra-term tests (2-3) spaced at monthly intervals. - Weekly homework assignments.
2.6	Analyze and evaluate agribusiness problems and management decisions employing commonly used business/statistical software (such as MSEXcel, Eviews, and SPSS) by obtaining at least 75% on the relevant component on graduation project evaluation.	- Lectures. - Tutorials. - Discussions.	- In class written intra-term tests (2-3) spaced at monthly intervals. - Weekly homework assignments. - In class presentations.
<b>3.0</b>	<b>Interpersonal Skills &amp; Responsibility</b> <i>Upon successful completion of the program students will be able to:</i>		

3.1	Demonstrate the ability to work with others in groups towards a common goal by a minimum score of 75% on assigned group activities.	- Discussions. - Debates.	- Group assignments. - Team presentations.
3.2	Use ethical standards and show integrity regarding intellectual property rights.	- Lectures. - Discussions.	- Short essay assignments. - Term projects.
3.3	Demonstrate teamwork, leadership, and networking skills.	- Discussions. - Field visits.	- Group assignments. - Team presentations
3.4	Show ability to make decisions and bear consequences.		- Individual in-class assignments. - Short essays.
3.5	Illustrate good time-management skills.	- Lectures. - Discussions.	- In class oral presentations. - Written tests and exams.
<b>4.0</b>	<b>Communication, Information Technology, Numerical</b> <i>Upon successful completion of the program students will be able to:</i>		
4.1	Clearly communicate basic research results in oral form using presentation software, by scoring at least 75% on all components of the grading criteria when presenting their graduation project.	- Lectures. - Discussions. - Practical sessions (In class student oral presentations).	- In class oral presentations. - Oral presentation of graduation research project to faculty and peers.
4.2	Calculate various economic measures e.g., elasticities using formulae and relevant data by a minimum score of 75% on a relevant question.	- Lectures. - Tutorials.	- In class written intraterm tests (2-3) spaced at monthly intervals. - A final exam. - Weekly homework assignments.
4.3	Clearly communicate basic research results in writing form by scoring at least 75% on all components of the grading criteria on their graduation project.	- Lectures. - Tutorials.	- Assessment of final graduation research project by faculty on certain criteria.
<b>5.0</b>	<b>Psychomotor :N/A</b>		

**Table (ii): APEC Program Assessment cycle for all LO's.**

Semester LO	1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	2.4	2.5	2.6	3.1	3.2	3.3	3.4	3.5	4.1	4.2	4.3
13536	✓																✓		✓
23536	✓	✓	✓														✓		✓
13637	✓	✓	✓	✓	✓												✓		✓
23637	✓	✓	✓	✓	✓	✓	✓										✓		✓
13738	✓	✓	✓	✓	✓	✓	✓	✓	✓								✓		✓
23738	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓		✓
13839	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓		✓
23839	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓

