



Davao del Sur State College
Brgy. Matti, Digos City, Davao del Sur

AGB 731

AGRI-PRODUCT

DEVELOPMENT

AND

TECHNOLOGY



PREFACE

Agriculture is no longer understood only as the production of crops, livestock, or fisheries commodities. Contemporary agribusiness operates through interconnected systems in which biological resources are transformed into food and non-food products, technologies shape productivity and quality, policies influence incentives and access, and decisions must account for environmental limits and social consequences. Agri-product development therefore requires the ability to connect technical knowledge with managerial judgment.

This course pack was developed for AGB 731 - Agri-Product Development and Technology. It translates the approved syllabus into a structured set of graduate-level learning modules. The material begins with institutional and course orientation, then progresses through agricultural processing and value addition, systems analysis of Agriculture, Food, and Natural Resources (AFNR) problems, technology assessment, sustainable resource management, public policy analysis and design, and the use of geographic and economic data for decision-making.

The learning design follows the 4As sequence. Activity places the learner in a concrete task or experience. Analysis uses questions to examine patterns, assumptions, evidence, and consequences. Abstraction consolidates the principles and frameworks that can be transferred to other situations. Application requires the learner to use those principles in a realistic professional context. This sequence supports the graduate expectation that learners should not only know concepts but also interpret, evaluate, design, defend, and improve decisions.

Cases and examples in this course pack are written for instructional purposes. Some are fictional composite scenarios inspired by common conditions in Philippine AFNR systems. Learners are encouraged to replace assumptions with current local evidence whenever conducting field-based, policy, market, or resource analysis. Laws, standards, market conditions, and technologies also change; therefore, official and current sources should be consulted when a task requires a real-world recommendation.

The course pack is intended to support, not replace, the professional judgment of the course instructor. Activities may be adjusted to fit field access, webinar schedules, class modality, local industry opportunities, and the availability of data. What should remain constant is the course commitment to responsible innovation: creating useful agricultural products and systems while protecting people, resources, and the long-term capacity of communities to thrive.

AGRI-PRODUCT DEVELOPMENT AND TECHNOLOGY

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