RAFFLES UNIVERSITY

TEACHING PLAN: FARM MANAGEMENT, PRODUCTION AND RESOURCE ECONOMICS

SCHOOL: (SOAS) SCHOOL OF AGRICULTURAL SCIENCES		**ACADEMIC SESSION: 2023-24**	**FOR STUDENTS' BATCH: 3rd year 6th Semester**
1	**Course No.**	AEC-T-301	
2	**Course Title**	**Farm Management, Production and Resource Economics**	
3	**Credits**	**2**	
4	**Learning Hours**	**Contact Hours**: 72 **Assessment**: 9 **Guided Study**: 9 **Total hours**: 90	
5	**Course Objective**	1. Educates the concept of farm management, different terms, principles and laws of farm management, different types of farm 2. Develop understanding of various types of production function, decision making, cost, farm planning and budgeting, farm inventory, balance sheet, profit and loss accounts 3. Apply the different law and principles of farm management, relationship between factor and product 4. Evaluate the important issues in farm management	
6	**Course Outcomes**	1. The course contains a comprehensive treatment of farm management and its concept traditional agricultural production economics topics employing both detailed graphics and differential calculus 2. Focus on cost and neoclassical factor-product, factor-factor and product- product models, and is suitable for an advanced undergraduate or a beginning graduate –level course in static production economics 3. Understand limited resources available in the economy**.** Realize the need to exploitAnd utilize through development and improvement of production techniques 4. Make them aware of the availability of rich natural endowments to achieve sustainable agricultural development with this knowledge they can challenge the problems of unemployment inequality shortage of food productions, poverty and be useful to compete advanced agricultural economies 5. Gain knowledge of the causes of regional variations in productivity and production, social and economic inequality, size of land holdings and lack of quality inputs etc. And suggest appropriate measures for the whole economy	
7	**Outline syllabus:**		

7.01	**Paper Code**	**Unit**	**Introduction**	**Page Numbers** [1]	**Lectures**
7.02	**AEC-T-301**	Unit I	1:Meaning and concept of farm management, objectives and relationship with other sciences 2:Meaning and definition of farms, its types and	213-226	1 to 4

			characteristics 3: Factor determining types and size of farms 4: Principles of farm management 5: Concept of production function and its type; Use of production function in decision making on a farm 6:Factor-product, factor-factor and product-product relationship 7: law of equi-marginal/ or Principles of opportunity cost and law of comparative advantage		
7.03		Unit II	1:Meaning and concept of cost, types of costs and their interrelationship 2: Importance of cost in managing farm business and estimation of gross farm income, net farm income 3: Importance of cost in managing farm business and estimation of gross family labour income and farm business income 4: Farm business analysis: meaning and concept of farm income and profitability 5: Technical and economic efficiency measures in crop and livestock enterprises	513-538	4 to 8
7.04		Unit III	1: Importance of farm records and accounts in managing a farm, various types of farm records needed to maintain on farm, farm inventory, balance sheet, profit and loss accounts 2: Meaning and importance of farm planning and budgeting, partial and complete budgeting 3: Steps in farm planning and budgeting-linear programming 4: Appraisal of farm resources, selection of crops and livestock's enterprises	227-237	9 to 12
7.05		Unit IV	1: Concept of risk and uncertainty occurs in agriculture production 2: Nature and sources of risks and its management 3: Strategies**,** Crop/livestock/machinery insurance – weather based crop insurance, features, and determinants of compensation 4: Concepts of resource economics, differences between NRE and agricultural economics, unique properties of natural resources Positive and negative externalities in agriculture, Inefficiency and welfare loss, solutions 5:Important issues in economics and management of common property resources of land, water, pasture and forest resources etc	361-364	13 to 16

8	**Course Evaluation**	
8.1	**CA: 10%**	
8.11	**Attendance**	25%
8.12	**Homework**	2 Assignments-50%
8.13	**Quizzes**	2 Quizzes-25%
8.14	**Projects**	
8.15	**Presentation**	
8.16	**Any other**	Practical examination-30%
8.2	**MTE**	10%
8.3	**End-term examination: 50%**	
9	**Text Books & References**	
9.1	**Text book**	**1.** Subba Reddy, S.; Raghu Ram, P; Neelakantha Sastry, V.; Bhavani Devi, I. (2009). Agricultural Economics

9.2	**References**	1. Handbook on Crop Insurance, Insurance Regulatory and Development Authority Of India (IRDAI), Hyderabad. Available at: http://www.policyholder.gov.in/ Crop_Handbook.aspx Economics. Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi. ISBN: 8120415965 2. Johl, S.S and Kapoor, T.R. (2009). Fundamentals of Farm Business Management. Kalyani Publishers, New Delhi. ISBN: 9788127252236. 3. Jhingan, M. L. and Sharma, C. K. (2015). Environmental Economics: Theory, Management & Policy. Vrinda Publications Pvt. Ltd., India. 4.Subba Reddy, S. and Raghu Ram, P. (2016). Agriculture Finance and Management. Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi. ISBN: 812041022X
	Video References	1. https://www.youtube.com/watch?v=G5W5F0EpUrE&t=230s 2. https://www.youtube.com/watch?v=wQlBBdP15EM&t=347s 3. https://www.youtube.com/watch?v=2RWjYF6nOfU&t=97s 4. https://www.youtube.com/watch?v=Nj3J3DnL4Yw&t=801s 5. https://www.youtube.com/watch?v=HdxQusbgUEI&t=181s

Mapping of Outcomes v. Topics

Outcome no. → Syllabus topic↓	1	2	3	4	5
Paper Code.Unit I (1)	✓	✓			
Paper Code. Unit I (2)	✓	✓			
Paper Code. Unit I (3)	✓	✓			
Paper Code.Unit I(4)	✓	✓			
Paper Code. Unit I(5)	✓	✓			
Paper Code. Unit I(6)	✓	✓			
Paper Code.Unit I(7)	✓	✓			
Paper Code. Unit II(1)			✓		
Paper Code. Unit II(2)			✓		
Paper Code.Unit II(3)			✓		
Paper Code. Unit II(4)			✓		
Paper Code. Unit II(5)			✓		
Paper Code.Unit III(1)				✓	
Paper Code. Unit III(2)				✓	
Paper Code. Unit III(3)				✓	
Paper Code. Unit III(4)				✓	
Paper Code. Unit IV(1)					✓
Paper Code.Unit IV(2)					✓
Paper Code. Unit IV(3)					✓
Paper Code. Unit IV(4)					✓
Paper Code. Unit IV(5)					✓

Question Bank

UNIT-I:

A. Objective Questions

1. ……………….. is an application of the accounting principles to the business of farming:

A. Farm planning

B. Farm budgeting

C. Farm accounting

D. Marketing

2. Beef' and 'hides' are examples of:

A.Independent enterprise

B. Joint enterprise

C. Supplementary enterprise

D. Competitive enterprise

3. A farmer having less than one hectare of irrigated the land, is known as:

A. Small farmers

B. Marginal farmers

C. Big farmers

D. None of the above

4. A farmer, which has land holding between 1 to 2 hectare known as:

A. Small farmers

B. Marginal farmers

C. Big farmers

D. None of the above

5. A farmer which has land holding between zero to one hectare is known as:

A. Small farmers

B. Big farmer

C. Marginal farmer

D. Argicultural labour

B. Write short notes on following heads-

1. Farm management

2. Laws of returns

3. Net farmer income

4. Variable cost and Fixed Cost

5. Production Possibility Curve.

C. Descriptive Questions

1. Explain about different types of farming (any four).
2. Define farm planning and enlist the steps involved in farm planning.
3. What is the goal of farm planning? Explain.
4. Write down the characteristic of farm plan.
5. What are the tool of farm planning? Explain with examples.

UNIT-II:

A. Objective Questions

1. A group of technical units are known as:
   A. Farm firm
   B. Plant
   C. Economic unit
   D. All above
2. A single convenient unit in production for which technical co-efficient are calculated is known as:
   A. Units of accounting
   B. Technical units
   C. Marginal units
   D. None of the above
3. A statement, which shows the financial condition and stability of the business at a particular point of time, is known as:
   A. Net worth statement
   B. Business statement
   C. Physical efficiency measures
   D. None of the above
4. The other name of overhed cost is:
   A. Fixed cost
   B. Variable cost
   C. Total cost
   D. Marginal cost
5. A.P.P. Will be equal to (Y = output, X = input):
   A. X/Y
   B. X/Y x 100
   C. Y/X
   D. None of above

B. Write short notes on following heads-

1. Partial Budgeting
2. Complete Budgeting
3. Elasticity of Production
4. Cost function
5. Supplementary Enterprise

C. Descriptive Questions

1. Write the relationship of farm management with other sciences
2. What are the steps or stages of farm business analysis?
3. Explain the types of farm record.

4. State different economic principles involved in organization of farm business.
5. Explain law of return and its types.

UNIT-III:

A. Objective Questions

1. Absence integration between resources and activities in the process of production is called:
   A. Linearity
   B. Non-linearity
   C. Quasi-non-linearity
   D. Quasi-linearity
2. Iso-revenue line is a:
   A. Straight line
   B. Curve line
   C. Horizontal line
   D. Vertical Line
3. Average fixed cost is equal to:
   A. Total fixed cost / 100
   B. Total fixed cost/total variable cost
   C. Total fixed cost/output
   D. Total fixed cost/Input
4. Building machinery and implements are examples of:
   A. Variable resources
   B. Fixed resources
   C. Flow resources
   D. None of the above
5. Which one of the following principles is employed in production when resources are scarce?
   A. Added cost is equal to added returns
   B. Equal-marginal principle
   C. Competitive advantage
   D. None of these

B. Write short notes on following heads-

1. Iso-Cost line
2. Opportunity cost
3. Farm records
4. Balance Sheet
5. Resource Economics

C. Descriptive Questions

1. What is uncertainty? Enlist the different types of uncertainties.
2. What are the assumptions of linear programming problem?
3. What are the objectives of Production Economics?
4. Explain procedure to find out the optimum combination of two products
5. Write the measure taken against risk and uncertainty.

UNIT-IV:

A. Objective Questions

1. Co-operative farming, Collective farming, Capitalistic farming, State farming and Peasant farming are:
   A. Types of farming
   B. System of farming
   C. Both these
   D. None of these
2. Crop farming and milk production is an example of:
   A. Competitive enterprise
   B. Complementary enterprise
   C. Supplementary enterprise
   D. None of them
3. Decisions regarding irrigation, conservation and reclamation programmes are comes under:
   A. Buying decisions
   B. Selling decisions
   C. Marketing decisions
   D. Strategic decisions
4. Enterprise budgeting deals with input-output relationship of:
   A. A set of different enterprises
   B. A single enterprises of the farm
   C. Both
   D. None of the above
5. In peasant farming the owner of the land is:
   A. Land lord
   B. Co-operative society
   C. Government
   D. Farmer

B. Write short notes on following heads-

1. Factor –product relationship
2. Cost concepts
3. Farm efficiency
4. Production function
5. Resource Economics

C. Descriptive Questions

1. What are the three zone of a production function?
2. Discuss the property of production possibilities curve
3. Explain the law of equi-marginal return and its types.
4. Differentiate between farm management and production economic
5. What are the goals of Production Economics?