



Course Delivery Plan
Department of Nutrition and Food Engineering
Semester: Summer 2022

Course Code: NFE 333

Credit Hours: 3

Course Title: Food Engineering and Economics

Course Rationale:

This course will develop knowledge based technical academia in food industrial profitability of entrepreneurs.

Objective of the course:

The specific objectives of the course are:

- to gain knowledge on economics
- to foster knowledge on demand, supply and market equilibrium
- to develop skills on plant layout design
- to introduce them the recent development of food engineering economics

Learning outcome:

1. Able to increase knowledge on basic economics, scope and its contribution to Food Engineering.
2. Able to gain knowledge on demand, utility functions, income effect etc.
3. Able to understand the plant layout and design consideration for food processing plants, preparation of flow sheets for material movement and utility consumption in food plants.
4. Able to understand the supply and market equilibrium.
5. Able to acquire knowledge on production function and return to scale, cost function, profit maximization etc.
6. Able to understand the function of bank and other financial institution and new economic environment.

Class No.	Lesson Plan	Comment
Week 1	Lecture 1: Introduction to Economics	
	Lecture 2: cash flow diagram Lecture 3. Capital and interest Lecture 4: Time value of money	
Week 2	Lecture 5: Application of Engineering Economics	Quiz 1
	Lecture 6 : Demand Lecture 7: Demand Analysis	

	Lecture 8 :Supply	
Week 3	Lecture 9: Breakeven point Lecture 10: Utility and indifference curve	Quiz 2
Week 4	Especial Class test (15) and Viva (10)	
	Lecture 11: New Economic Environment Lecture 12: Basic concepts of Food Factory, plant layout and design	
Week 5	Lecture 13: National Income: Concepts & measurements Lecture 14: GDP	
	Lecture 15: Demand, Supply, and Market Equilibrium (1) Lecture 16: Demand, Supply, and Market Equilibrium (2)	
Week 6	Lecture 17: Economies and diseconomies of scale Lecture 18: Bank & Financial Institutions: Concepts, roles in the economy	Quiz 3
Week 7	Final Exam (June 30 Approx.)	All Lecture

Text Books:

1. Engineering Economics, D N Dwivedi: Vikas.
2. Plant Layout and Design, James M Moore, Mcmillan& Co.

References:

1. Koutsoyianni : Modern Micro Economics, Macmillan.
2. R Dutta & K P M Sundaran : Indian Economy. S.Chand.
3. A N Agarwal : Indian Economy, Vikas.
4. P A Samuelson & W D Nordhans : Economics: TMH.