UNIT – III: Theory of Production:

Production function, Marginal rate of technical substitution, Iso-quants and Iso-costs, production function with one/two variable factors,Law of Variable Proportions, and Returns to Scale, internal and external economies.

UNIT – IV: Cost Analysis:

Cost concepts, cost determinants, cost output relationship in the short and long run, Break-Even analysis.

UNIT-V: Markets and price determination:

Features and types of different competitive situations – Perfect competition, Monopoly, Monopolistic competition and Oligopoly, pricing methods in practice.

TEXT BOOKS:

1. Gupta: Managerial Economics, 1/e TMH, 2005
2. A.R.Arya Sri, Managerial Economics and Financial Analysis, TMH, 2/e, 2010

REFERENCES:

1. Dominic Salvatore, Managerial Economics, Thomson, 2/e, 2006
2. Mote Paull, Managerial Economics, 1/e, TMH, 2004

IV Year I - Semester	L	T	P	To	C
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AG421 Soil and Water Conservation and Structures Lab

Course Description & Objectives:

To study the various conservation structures to be employed in adverse conditions for management of soil and water.

Course Outcomes:

Students will have practical knowledge of soil and water conservation structures with their design considerations.

List of Experiments:

1. Study of soil loss measurement techniques
2. Study of details of Coshocton wheel
3. Study of details of multi slot runoff samplers
4. Study of rainfall simulators and runoff plots
5. Determination of sediment concentration by oven drying method
6. Preparation of contour map of an area and its analysis
7. Design of vegetated waterways and contour bunding system
8. Design of graded bunding system
9. Design of various types of bench terracing systems
10. Determination of rate of sedimentation and storage loss in reservoir
11. Design of Shelter belts and wind breaks.
12. Construction of specific energy and specific force diagram
13. Design of H flume and Parshall flume
14. Measurement of hydraulic jump parameters and amount of energy dissipation
15. Hydraulic design of a straight drop spillway
16. Determination of uplift force and construction of uplift pressure diagram
17. Determination of loads on headwall and construction of triangular load diagram
18. Hydraulic design of a chute spillway
19. Design of a SAF energy dissipater
20. Design of small earth embankments
21. Design of water harvesting structures
22. EIA analysis and cost estimation of structures.