

NWFP University of Engineering & Technology Peshawar

Document Type: **Course Outline**

Department: **Civil Engineering**

Course No.: **CE-207**

Serial No.: _____

Course Title: **Engineering Economics**

Type: **Theory**

Credit Hours: **02**

Approved Under Reference: _____

Verified By: _____

Signature: _____

Date: _____

Effective From: _____

Effective For Session: _____

Effective To: _____

-
- Basic Concepts
 - Introduction to Engineering Economics
 - Time Value of Money
 - Different Methods of Analysis (Present Worth Analysis, Annual Worth Analysis etc.)
 - Concept of Internal Rate of Return & Its use in Engineering Projects
 - Various Types of Costs (Maintenance, Repair, Other Overhead Costs etc.) & Benefits & Its Use in Engineering Projects
 - Economical Life of Construction Equipment
 - Inflation
 - Depreciation & Its Types
 - Cost Escalation
 - Introduction to Break Even Analysis & Its Application to Engineering Project
 - Sensitivity Analysis
 - Demand and Supply Analysis
 - Theory of Pricing & Theory of Production and Laws of Return
 - Funding, Funding Agencies and Planning Commission
 - Types of Business Organizations
 - Labor problems, Labor Organization, Prevention and Settlement of Disputes

Recommended Books:

1. Donald G. Newman
2. E.Peul Degarmo