

## **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: \_\_\_\_\_

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- 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