

**B.Sc Civil
Engineering**

CONTRACT

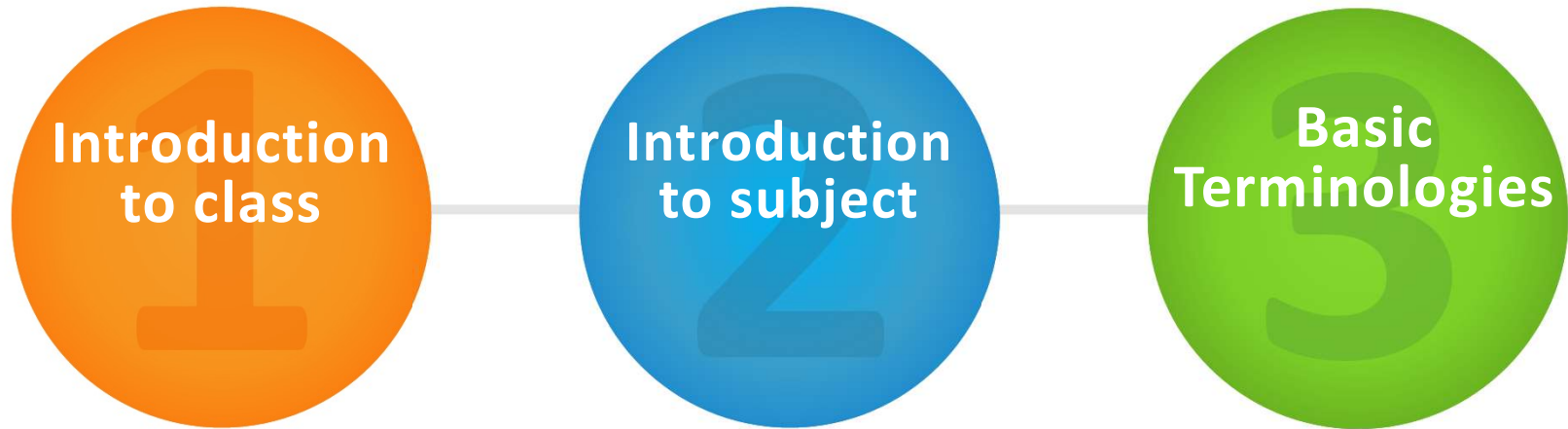


Project & Contract Management CE 206

Engr. Omer Altaf

**Department of Civil Engineering
UET LAHORE**

Design Class 1





Introduction to class & Teacher





Introduction to Subject



Course Outline

- **CE-206 PROJECT AND CONTRACT MANAGEMENT**
Introduction to Engineering Economics: Inflation, escalation, indexation, economic evaluation, financial planning, value, utility, depreciation, arbitration and litigation. Demand and supply analysis, theory of pricing, theory of production and laws of return,
Construction Specifications. Role of specifications on cost of project.
Contracts: Types and conditions of contracts, work contracts and tendering.
Estimating: Need for estimates, rough cost and detailed estimates. Preparation of bill of quantities. Scheduled and non scheduled rates. Analysis of rates, abstract of costs. Preparation of estimates from drawings. Use of proper planning. Introduction to critical path method.
Safety and Environmental management at construction sites.
Technical Report Writing: Qualities of a good report, main parts, scope and functions, Logical sequence, numbering system and use of suitable heading and subheadings, Formats of title page, table of contents, bibliography, footnote.
Oral Presentation: Basic principles of good oral presentation.

Related Books

- Estimating and Costing by E.W. Steel and Terence J. Mc GHEE
- Estimating and Costing in Civil Engineering by S. Dutta 22nd edition.
- Estimating, Costing and Accounts by D.D.Kohli 9th edition.
- Fundamentals of construction, Estimating & Cost Accounting by Keith Collier 2nd edition.

Resources

- There are four Resources in Civil Engineering projects (4M)
 1. Material
 2. Man Power
 3. Machinery
 4. Money

Types of Projects

- Design Projects
- Construction Projects
- Supervision projects

“Project is a task component of resources which is required to be completed in certain budget and time schedule”

Parties of Project

- Client/Employer/Owner
- Design Consultant
- Contractor
- Supervision Consultant

Leading clients in Government sector

- In Government sector leading clients are:
- WAPDA (Water and Power Development Authority)
- NHA (National Highway Authority)
- Pakistan Railways
- Irrigation and power department
- Communication and works department (C & W)

Leading clients in Private sector

- In private sector leading clients are:
- Bahria Developer
- Eden Developers
- Tricon developers (Real estate developers, Tricon village)
- Atlas Honda
- Coca Cola
- Suzuki
- Pepsi
- Nishat Mills
- KFC

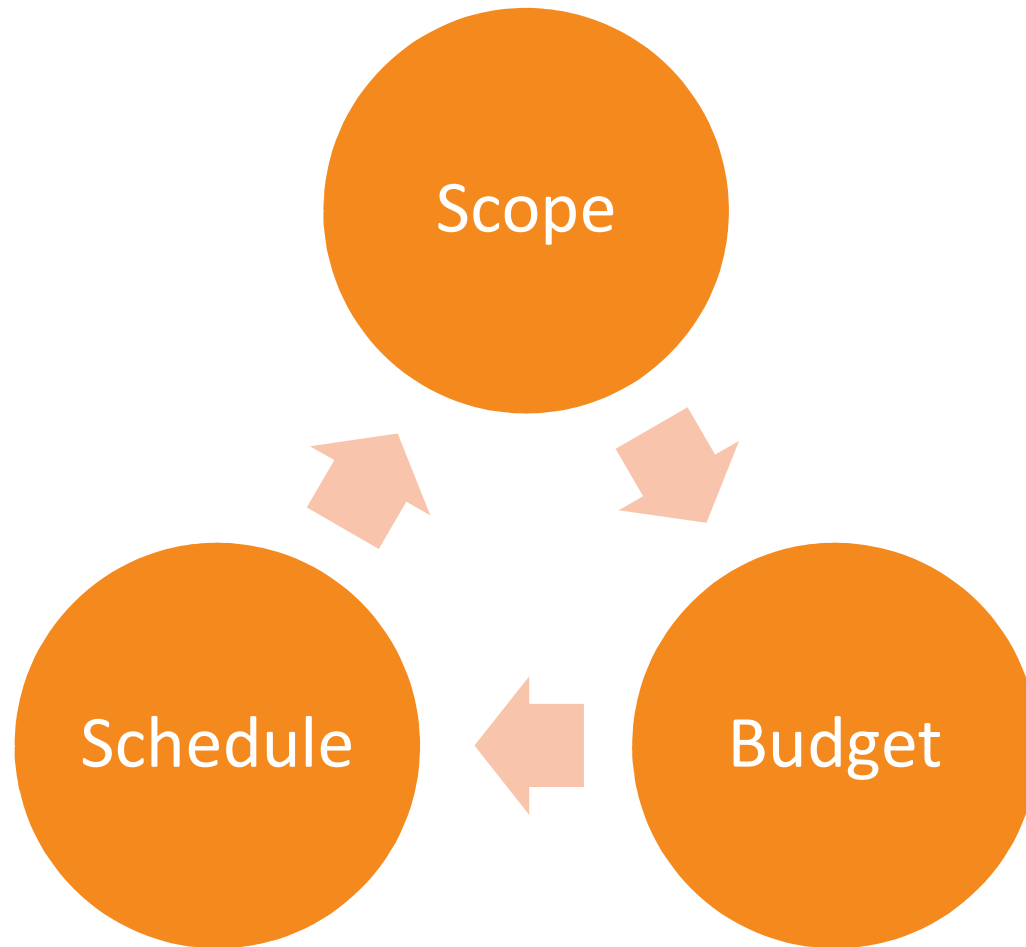
Leading consultants

- Leading consultants are:
- NESPAK
- ACE (Allied Consultant Engineering)
- AAA consultants
- REC (Republic Engineering Consultant)
- NDC (National Development Consultants)
- Noor Durrani Associates

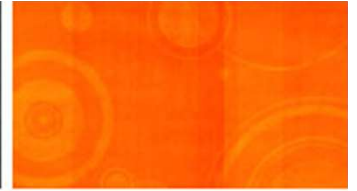
Leading contractors

- Leading contractors are:
- Descon
- Izhar Group
- BanuMukhtar
- HabibRafique
- SKB Engineering
- FWO
- Habib Construction (N-League)
- Hasnain Group (FC College Underpass)

Components of Project



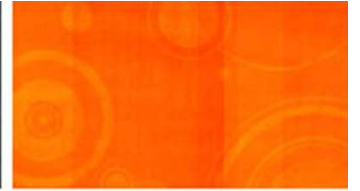
Different Types of Construction Project



- Highways & Motorways



Different Types of Construction Project



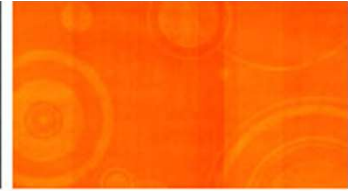
- Multistory Buildings



- Canals & Hydraulic Structures



Different Types of Construction Project



- Dams & Barrages



- Power Plant



Different Types of Construction Project

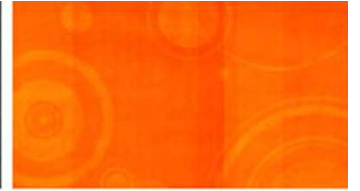
- Steel structure



- Oil refinery



Different Types of Construction Project



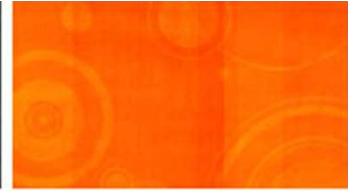
- Telecommunication tower



- Transmission Lines



Different Types of Construction Project



- Harbor Construction

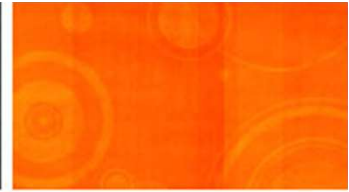


Different Types of Construction Project

- Bridge Construction



Different Types of Construction Project



- Railway construction



Different Types of Construction Project

- Airports



Design class is more like activity class, you will require to:

1

- Maintain a Design Register

2

- Prepare Presentations on different topics

3

- Quantity Analysis

4

- BOQ



Home Work

Please Go through Internet for reading stuff regarding different Civil Engineering Projects

