

**NWFP University of Engineering & Technology Peshawar**

Document Type: **Course Outline**

Department: **Civil Engineering**

Course No.: **CE-202**

Serial No.: \_\_\_\_\_

Course Title: **Construction Engineering & Graphics**

Type: **Theory**

Credit Hours: **02**

Approved Under Reference: \_\_\_\_\_

Verified By: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Effective From: \_\_\_\_\_

Effective For Session: \_\_\_\_\_

Effective To: \_\_\_\_\_

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**Construction Engineering.**

➤ **Building Construction:**

Site Selection for a building, Orientation and Setting out for construction

➤ **Layout Techniques:**

Layout Techniques with special reference to buildings. Excavation in different types of soils

➤ **Masonry construction**

Types of stone and brick masonry; bonds in brick masonry, Alignments, Plumbs, leveling & cambering.

➤ **Form work**

Form work for general in-situ construction, props, bracing and horizontal shuttering platforms.

➤ **Damp proofing** in building, Interior and exterior surface finishes

➤ Various types of floors & roofing systems, planner & non-planer roofing system, roof treatments.

➤ **Expansion joints** and construction joints

➤ **Wood work** in building construction

➤ **Other Engineering Projects.**

An over view of construction aspects of different types of engineering projects, e.g. buildings, retaining structures, bridges

➤ **Construction specification**

➤ **Common defects** in building construction their causes and remedial measures

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**Graphics**

➤ Architectural Drawings, Structural Drawings, Plumbing and Electrical Work.

➤ Computer Aided Drawing (AutoCAD)

General and basic know how related to computer aided drafting, e.g., coordinate system, drawing setup procedure, basic draw commands, basic edit commands; Layers, creating test and defining styles options, block and drawing import/export options; Cross hatching, save and plot (2D) and isometric drawings. Use of Auto CAD in drawing plans, elevation and section of single and double-storey buildings