

# **Civil Engineering Consultancy & Design Services**

**Department of Civil Engineering | CECOS University of IT & Emerging Sciences,  
Peshawar**

## **Engineering Expertise for Sustainable Infrastructure Development**

The Department of Civil Engineering at CECOS University of IT & Emerging Sciences, Peshawar, offers engineering consultancy, technical evaluation, and design support for construction and infrastructure development projects. Drawing on faculty expertise and professional collaboration, the Department supports safe, economical, and sustainable engineering solutions.

Our Consultancy & Design Services

### **1. Structural Engineering**

- Structural analysis and design of buildings
- Reinforced concrete and steel structures
- Structural assessment, rehabilitation, and modelling

### **2. Geotechnical and Foundation Engineering**

- Foundation analysis and design
- Soil bearing capacity evaluation
- Retaining wall design and slope stability assessment
- Geotechnical investigation and technical recommendations

### **3. Transportation and Highway Engineering**

- Highway and pavement design
- Traffic studies and transportation planning
- Pavement condition assessment
- Road rehabilitation and maintenance planning

### **4. Water Resources and Environmental Engineering**

- Environmental Impact Assessment (EIA)
- Water supply and distribution systems
- Sewerage and drainage network design
- Water and wastewater treatment systems
- Hydrological and hydraulic modelling
- Sustainable water management

### **5. Surveying, Engineering Drawings, and Quantity Surveying**

- Topographic and land surveying
- Site layout, leveling, and setting-out works
- Preparation of architectural and structural drawings
- AutoCAD drafting and as-built drawings
- Quantity take-off and preparation of Bills of Materials (BOMs)

- Construction cost estimation and material calculations
- Preparation of tender documents and technical specifications

## **6. Construction Engineering and Project Management**

- Project planning and scheduling
- Cost estimation and quantity surveying
- Engineering drawing preparation and review
- Technical feasibility studies
- Construction quality assurance and quality control
- Project monitoring and evaluation

## **7. Sustainable and Resilient Infrastructure**

- Green building and sustainable construction solutions
- Resource-efficient infrastructure planning
- Climate-resilient infrastructure development
- Construction waste management and environmental performance assessment

### **Why Collaborate with CECOS University?**

CECOS University integrates academic knowledge, applied research, and engineering expertise to address infrastructure challenges. Our approach emphasizes structural safety, quality, cost-effectiveness, environmental responsibility, and appropriate engineering standards.

### **Consultancy and Design Inquiries**

We welcome inquiries from government and semi-government departments, engineering consultants, construction companies, developers, industrial organizations, and individual clients.

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Consultancy assignments are subject to institutional approval, available expertise, and applicable professional registration and licensing requirements.

### **Contact Information**

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