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DEPARTMENT OF B.SC CIVIL ENGINEERING TECHNOLOGY

EXECUTIVE SUMMARY

This executive summary outlines the self-assessment of the Bachelor of Civil Engineering Technology program at the Government College of Technology (GCT) Peshawar, structured according to the nine criteria of the National Technology Council (NTC) Accreditation Manual.

Institutional Overview and OBE Framework

GCT Peshawar, established in 1953, is the largest technical institution in Khyber Pakhtunkhwa and operates under the administrative control of **KP-TEVTA**. The college began a comprehensive transition to the **Outcome-Based Education (OBE)** system in Spring 2022 to align with international standards and ensure continuous quality improvement.

Criterion 1: Program Educational Objectives (PEOs)

The program is guided by three core PEOs designed in consultation with industry stakeholders:

- PEO 1:** To enable the students to work consistently by providing a solid foundation and training them in market oriented technical and management skills.
- PEO 2:** To attain the analytical expertise for improving employability by analyzing the challenging problems in the field of Civil Engineering Technology and developing the necessary and suitable tools for them.
- PEO 3:** To inculcate social values in students and enabling them to perform ethically and responsibly.

Criterion 2: Program Learning Outcomes (PLOs)

The program ensures students achieve 12 defined PLOs, ranging from engineering technology knowledge and problem analysis to ethics and lifelong learning. Achievement is monitored through Course Learning Outcomes (CLOs), with a cumulative attainment threshold of 50% required for individual students and 60% for program-level cohorts.

Criterion 3: Curriculum and Learning Process

GCT Peshawar has adopted the **NTC 2023 Revised Curriculum**, which maintains a balanced mix of engineering technology (70%) and non-engineering (30%) courses. Hallmarks of this curriculum include:

- **Practical Focus:** Contact hours are heavily weighted toward practical work, reaching up to 73.43% depending on semester options.
- **Industrial Training:** A mandatory **32-week supervised industrial training** (16 credit hours) is required in the final year.
- **Design Projects:** Students solve broadly defined technology problems, monitored through a rigorous four-stage evaluation process.

Criterion 4: Students

Admission is highly selective, requiring a minimum of 50% marks in F.Sc (Pre-Engg) or DAE and an entry test conducted by ETEA. The institution provides comprehensive support through a Batch Tutor system, which offers academic counseling, career guidance, and assistance with financial or health matters.

Criterion 5: Faculty and Support Staff

The department maintains an **exceptional teacher-student ratio of 1:6**, far exceeding the NTC requirement of 1:20. The faculty is highly qualified, with a majority holding M.Sc or MS degrees and actively engaging in research relevant to concrete technology and transportation systems.

Criterion 6: Facilities and Infrastructure

The 24-acre campus includes specialized laboratories for Soil Mechanics, Concrete Technology, Hydraulics, and Surveying. Support facilities include hostels, a library, sports complexes, and transport services to ensure a holistic learning environment.

Criterion 7: Institutional Support and Financial Resources

The program receives robust financial backing from KP-TEVTA and internal college resources. Substantial funds are allocated for infrastructure maintenance, such as a 60 million PKR release for building upkeep, ensuring the sustainability of teaching and learning resources.

Criterion 8: Continuous Quality Improvement (CQI)

Established in 2022, the Quality Enhancement Cell (QEC) oversees internal audits and feedback cycles. The program utilizes a CQI Activity Flow Chart to track PLO attainment, initiating corrective actions and student warnings if performance thresholds are not met by the third or fifth semesters.

Criterion 9: Industrial Linkages

The program is supported by an Industry Advisory Board (IAB) and Institute Management Committee (IMC), which include majority private-sector representation. These linkages facilitate regular industrial visits, guest lectures from leading technologists, and 100% internship placement for students.



Principal