

Standing Requirements

## Outcomes Library

### BS in Civil Engineering Technology Outcome Set

#### 1: Apply the latest technology and engineering tools to solve technical problems

Apply the latest technology and engineering tools to solve technical problems in the practice of Civil engineering technology and related interdisciplinary fields.

| Outcome   | Mapping  |
|---|--|
| 1.1: an appropriate mastery of the knowledge, techniques, skills, and modern tools of the CVET discipline<br>an appropriate mastery of the knowledge, techniques, skills, and modern tools of the CVET discipline                     | No Mapping   |
| 1.2: ability to apply current knowledge and adapt to emerging applications<br>an ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering, and technology.                          | No Mapping   |
| 1.3: an ability to conduct, analyze and interpret experiments, and apply experimental results to improve processes.<br>an ability to conduct, analyze and interpret experiments, and apply experimental results to improve processes. | No Mapping   |
| 1.4: an ability to apply creativity in the design of systems, components, or processes<br>an ability to apply creativity in the design of systems, components, or processes appropriate to the CVET program educational objective.    | No Mapping   |
| 1.5: an ability to identify, analyze and solve technical (close-ended analysis and open-ended design) problems.<br>an ability to identify, analyze and solve technical (close-ended analysis and open-ended design) problems.         | <b>Foundational Studies:</b> 2. Critically evaluate the ideas of others. |

#### 2: Remain technically current and adapt to rapidly changing technologies

Remain technically current and adapt to rapidly changing technologies through self improvement with continuous learning or post-graduate education.

| Outcome   | Mapping    |
|---|------------|
| 2.1: a recognition of the need for, and an ability to engage in lifelong learning.<br>a recognition of the need for, and an ability to engage in lifelong learning. | No Mapping |
| 2.2: a commitment to quality, timeliness, and continuous improvement.<br>a commitment to quality, timeliness, and continuous improvement.                           | No Mapping |

#### 3: Demonstrate independent thinking, self-management, and effective functioning

Demonstrate independent thinking, self-management, and functioning effectively in team-oriented and open-ended activities in an industrial environment.

| Outcome   | Mapping    |
|---|------------|
| 3.1: an ability to function effectively on teams. | No Mapping |

an ability to function effectively on teams.

#### **4: Communicate effectively in oral, written, and graphical forms.**

Communicate effectively in oral, written, and graphical forms.

##### **Outcome**

##### **Mapping**

4.1: an ability to communicate effectively through engineering drawings, written reports, or oral presentations.  
an ability to communicate effectively through engineering drawings, written reports, or oral presentations.

**Foundational Studies:** 10. Express themselves effectively, professionally, and persuasively both orally and in writing.

#### **5: Perform ethically and professionally in business, industry, and society.**

Perform ethically and professionally in business, industry, and society.

##### **Outcome**

##### **Mapping**

5.1: an ability to understand professional, ethical and social responsibilities.

No Mapping

an ability to understand professional, ethical and social responsibilities.

#### **6: Develop leadership skills and responsibility in their chosen career field.**

Develop leadership skills and responsibility in their chosen career field.

##### **Outcome**

##### **Mapping**

6.1: an ability to function effectively on teams.  
an ability to function effectively on teams.

No Mapping

#### **7: Understand global issues and the impact of technology and engineering**

Understand global issues and the impact of technology and engineering solutions on the society and environment.

##### **Outcome**

##### **Mapping**

7.1: a respect for diversity and a knowledge of contemporary professional, societal and global issues.  
a respect for diversity and a knowledge of contemporary professional, societal and global issues.

No Mapping

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