BS in Civil Engineering Technology Curriculm Map
Courses and Activities Mapped to BS in Civil Engineering Technology Outcome Set

| 1: Apply the latest technology and engineering tools to solve technical problems | 2: Remain technically current and adapt to rapidly changing technologies | 3: Demonstrate independent thinking, self-management, and effective functioning | 4: Communicate effectively in oral, written, and graphical forms | 5: Perform ethically and professionally in business, industry, and society | 6: Develop leadership skills and responsibility in their chosen career field | 7: Understand global issues and the impact of technology and engineering
---|---|---|---|---|---|---|
1.1: an appropriate mastery of the knowledge, techniques, skills, and modern tools of the CVET discipline | 1.2: ability to apply current knowledge and adapt to emerging applications of the knowledge, techniques, skills, and modern tools of the CVET discipline | 1.3: an ability to conduct, analyze, and interpret experiments, and apply experimental results to improve processes. | 1.4: an ability to apply creativity in the design of systems, components, or processes | 1.5: an ability to identify, analyze and solve technical (closed-ended analysis and open-ended design) problems. | 1.6: an ability to function effectively on teams. | 1.7: a respect for diversity and a knowledge of contemporary professional, societal and global issues.
1.8: an ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering, and technology. | 1.9: an ability to conduct, analyze, and interpret experiments, and apply experimental results to improve processes. | 1.10: a recognition of the need for, and an ability to engage in lifelong learning. | 1.11: a recognition of the need for, and an ability to engage in lifelong learning. | 1.12: a commitment to quality, timeliness, and continuous improvement. | 1.13: an ability to communicate effectively through engineering drawings, written reports, or oral presentations. | 1.14: an ability to understand professional, ethical and social responsibilities. | 1.15: an ability to function effectively on teams.
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Courses and Learning Activities

Printed on: 03/01/2016 01:48:13 PM (EST)
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- Apply the latest technology and engineering tools to solve technical problems in the practice of Civil engineering technology and related interdisciplinary fields.

<table>
<thead>
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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.

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.

Communicate effectively in oral, written, and graphical forms.

- Communicate effectively in oral, written, and graphical forms.

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

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

Develop leadership skills and responsibility in their chosen career field.

- Develop leadership skills and responsibility in their chosen career field.

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

- Understand global issues and the impact of technology and engineering solutions on the society and environment.
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1.4: an ability to apply creativity in the design of systems, components, or processes
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2.1: a recognition of the need for, and an ability to engage in lifelong learning.
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5.1: an ability to understand professional, ethical and social responsibilities.
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6: Develop leadership skills and responsibility in their chosen career field.
   Develop leadership skills and responsibility in their chosen career field.

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

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.

7.1: a respect for diversity and a knowledge of contemporary professional, societal and global issues.
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<tr>
<th>Course Code</th>
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Apply the latest technology and engineering tools to solve technical problems in the practice of Civil engineering technology and related interdisciplinary fields.

1.1: an appropriate mastery of the knowledge, techniques, skills, and modern tools of the CVET discipline

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1.3: an ability to conduct, analyze and interpret experiments, and apply experimental results to improve processes

1.4: an ability to apply creativity in the design of systems, components, or processes

1.5: an ability to apply technical (closed-ended analysis and open-ended design) problems

### 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.

2.1: a recognition of the need for, and an ability to engage in lifelong learning

2.2: a commitment to quality, timeliness, and continuous improvement

### 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.

3.1: an ability to function effectively on teams

3.2: a commitment to quality, timeliness, and continuous improvement

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

Communicate effectively in oral, written, and graphical forms.

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

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

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

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

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<tr>
<th>Number</th>
<th>Category</th>
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<td>Apply the latest technology and engineering tools to solve technical problems in the practice of Civil engineering technology and related interdisciplinary fields.</td>
<td>CNST 420 Construction Surveying</td>
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Demonstrate independent thinking, self-management, and functioning effectively in team-oriented and open-ended activities in an industrial environment.

### 3.1: an ability to function effectively on teams

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

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

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

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