Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jul 01—Dec 31, 2019
Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs
Graduation Date: Examinees testing more than 12 months after graduation date

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1. 9 examinees have been removed from this data because they were flagged as a random guesser.
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**Graduation Date:** Examinees testing more than 12 months after graduation date

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**Report title:** Subject Matter Report by Major and Examination

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**Graduation Date:** Examinees testing more than 12 months after graduation date

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### Examination:
- **Fundamentals of Engineering (FE)**

### Report title:
- **Subject Matter Report by Major and Examination**

### Exams administered:
- Jul 01—Dec 31, 2019

### Examinees included:
- First-Time Examinees from EAC/ABET-Accredited Engineering Programs

### Graduation Date:
- Examinees testing more than 12 months after graduation date

### Name of Institution:
- **University of Kentucky, Lexington**

### Major:
- Electrical

### FE Examination:
- Electrical and Computer

### Number of Exam Questions | Institution Average Performance Index | ABET Comparator Average Performance Index | ABET Comparator Standard Deviation | Ratio Score | Scaled Score
---|---|---|---|---|---
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Probability and Statistics | 4 | 10.5 | 9.5 | 3.4 | 1.11 | 0.29
Ethics and Professional Practice | 3 | 13.2 | 11.2 | 4.2 | 1.18 | 0.48
Engineering Economics | 3 | 9.0 | 9.9 | 4.4 | 0.91 | -0.20
Properties of Electrical Materials | 4 | 8.9 | 9.4 | 3.5 | 0.95 | -0.14
Engineering Sciences | 6 | 12.0 | 9.8 | 3.2 | 1.22 | 0.69
Circuit Analysis (DC and AC Steady State) | 10 | 9.2 | 9.2 | 2.2 | 1.00 | 0.00
Linear Systems | 5 | 9.2 | 8.8 | 3.1 | 1.05 | 0.13
Signal Processing | 5 | 10.2 | 8.6 | 2.8 | 1.19 | 0.57
Electronics | 7 | 8.8 | 8.7 | 2.5 | 1.01 | 0.04
Power | 8 | 9.4 | 8.8 | 2.1 | 1.07 | 0.29
Electromagnetics | 5 | 8.3 | 8.7 | 2.9 | 0.95 | -0.14
Control Systems | 6 | 6.2 | 8.5 | 2.7 | 0.73 | -0.85
Communications | 5 | 8.2 | 8.7 | 2.9 | 0.94 | -0.17
Computer Networks | 3 | 10.0 | 9.0 | 4.2 | 1.11 | 0.24
Digital Systems | 7 | 9.8 | 8.8 | 2.7 | 1.11 | 0.37
Computer Systems | 4 | 8.7 | 8.4 | 3.6 | 1.04 | 0.08
Software Development | 4 | 13.2 | 8.6 | 3.9 | 1.53 | 1.18

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1. 9 examinees have been removed from this data because they were flagged as a random guesser.
2. Comparator includes all examinees from programs accredited by the ABET commission noted.
3. Performance index is based on a 0–15 scale.
4. These scores are made available for assessment purposes. See the NCEES publication entitled Using the FE as an Outcomes Assessment Tool at http://ncees.org/licensure/educator-resources/

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**Examination:** Fundamentals of Engineering (FE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jul 01—Dec 31, 2019  
**Examinees included:** First-Time Examinees from EAC/ABET-Accredited Engineering Programs  
**Graduation Date:** Examinees testing more than 12 months after graduation date

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<tr>
<th>Name of Institution:</th>
<th>University of Kentucky, Lexington</th>
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<tr>
<td>Major:</td>
<td>Mining/Mineral</td>
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| FE Examination: | Other Disciplines |

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<th>Institution</th>
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<tr>
<td>No. Examinees Passing</td>
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<tr>
<td>Percent Examinees Passing</td>
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<th>Institution Average Performance Index</th>
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<th>ABET Comparator Standard Deviation</th>
<th>Ratio Score</th>
<th>Scaled Score</th>
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