

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 within 12 months of Graduation Date

| | | | |
|----------------------|-----------------------------------|-----------------|-------|
| Name of Institution: | University of Kentucky, Lexington | | |
| Major: | Agricultural | FE Examination: | Civil |

| | Institution | ABET Comparator ² |
|-----------------------------------|-------------|---------------------------------|
| No. Examinees Taking ¹ | 1 | 4 |
| No. Examinees Passing | 1 | 4 |
| Percent Examinees Passing | 100% | 100% |

| |
|--|
| Uncertainty Range for Scaled Score ⁴ ± 1.00 |
|--|

| | Number of Exam Questions | Institution Average Performance Index ³ | ABET Comparator Average Performance Index | ABET Comparator Standard Deviation | Ratio Score ⁴ | Scaled Score ⁴ |
|-----------------------------------|--------------------------------|---|---|---|-----------------------------|------------------------------|
| Mathematics | 7 | 10.7 | 11.2 | 2.3 | 0.96 | -0.22 |
| Probability and Statistics | 4 | 9.4 | 11.1 | 2.3 | 0.85 | -0.74 |
| Computational Tools | 4 | 9.3 | 10.9 | 2.4 | 0.85 | -0.67 |
| Ethics and Professional Practice | 4 | 15.0 | 13.6 | 2.4 | 1.10 | 0.58 |
| Engineering Economics | 4 | 6.9 | 8.5 | 1.0 | 0.81 | -1.60 |
| Statics | 7 | 8.8 | 8.8 | 0.8 | 1.00 | 0.00 |
| Dynamics | 4 | 9.6 | 9.8 | 0.4 | 0.98 | -0.50 |
| Mechanics of Materials | 7 | 7.8 | 8.9 | 0.6 | 0.88 | -1.83 |
| Materials | 4 | 7.9 | 7.5 | 0.5 | 1.05 | 0.80 |
| Fluid Mechanics | 4 | 15.0 | 12.2 | 2.8 | 1.23 | 1.00 |
| Hydraulics and Hydrologic Systems | 8 | 9.5 | 10.3 | 0.7 | 0.92 | -1.14 |
| Structural Analysis | 6 | 8.9 | 8.6 | 1.0 | 1.03 | 0.30 |
| Structural Design | 6 | 7.9 | 7.7 | 2.0 | 1.03 | 0.10 |
| Geotechnical Engineering | 9 | 10.1 | 8.4 | 1.9 | 1.20 | 0.89 |
| Transportation Engineering | 8 | 9.4 | 8.9 | 0.7 | 1.06 | 0.71 |
| Environmental Engineering | 6 | 8.8 | 10.1 | 2.8 | 0.87 | -0.46 |
| Construction | 4 | 15.0 | 8.2 | 5.4 | 1.83 | 1.26 |
| Surveying | 4 | 15.0 | 10.5 | 2.7 | 1.43 | 1.67 |

- 0 examinees have been removed from this data because they were flagged as a random guesser.
- Comparator includes all examinees from programs accredited by the ABET commission noted.
- Performance index is based on a 0–15 scale.
- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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 within 12 months of Graduation Date

| | | | |
|----------------------|-----------------------------------|-----------------|---------------|
| Name of Institution: | University of Kentucky, Lexington | | |
| Major: | Agricultural | FE Examination: | Environmental |

| | Institution | ABET Comparator ² |
|-----------------------------------|-------------|---------------------------------|
| No. Examinees Taking ¹ | 3 | 4 |
| No. Examinees Passing | 2 | 3 |
| Percent Examinees Passing | 67% | 75% |

| |
|--|
| Uncertainty Range for Scaled Score ⁴ ± 0.58 |
|--|

| | Number of Exam Questions | Institution Average Performance Index ³ | ABET Comparator Average Performance Index | ABET Comparator Standard Deviation | Ratio Score ⁴ | Scaled Score ⁴ |
|-------------------------------------|--------------------------------|---|---|---|-----------------------------|------------------------------|
| Mathematics | 4 | 8.5 | 8.1 | 1.5 | 1.05 | 0.27 |
| Probability and Statistics | 3 | 8.3 | 7.9 | 1.3 | 1.05 | 0.31 |
| Ethics and Professional Practice | 5 | 11.0 | 10.6 | 2.6 | 1.04 | 0.15 |
| Engineering Economics | 4 | 12.8 | 11.4 | 3.7 | 1.12 | 0.38 |
| Materials Science | 3 | 11.7 | 10.9 | 2.4 | 1.07 | 0.33 |
| Environmental Science and Chemistry | 11 | 9.2 | 9.1 | 0.3 | 1.01 | 0.33 |
| Risk Assessment | 5 | 8.3 | 10.0 | 3.5 | 0.83 | -0.49 |
| Fluid Mechanics | 9 | 12.3 | 11.5 | 2.2 | 1.07 | 0.36 |
| Thermodynamics | 3 | 12.1 | 11.2 | 3.9 | 1.08 | 0.23 |
| Water Resources | 10 | 11.4 | 10.9 | 2.5 | 1.05 | 0.20 |
| Water and Wastewater | 14 | 8.4 | 8.5 | 1.5 | 0.99 | -0.07 |
| Air Quality | 10 | 11.6 | 10.7 | 2.8 | 1.08 | 0.32 |
| Solid and Hazardous Waste | 10 | 8.6 | 8.5 | 1.0 | 1.01 | 0.10 |
| Groundwater and Soils | 9 | 10.5 | 10.2 | 1.0 | 1.03 | 0.30 |

- 0 examinees have been removed from this data because they were flagged as a random guesser.
- Comparator includes all examinees from programs accredited by the ABET commission noted.
- Performance index is based on a 0–15 scale.
- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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 within 12 months of Graduation Date

| | | | |
|----------------------|--------------|-----------------------------------|-------------------|
| Name of Institution: | | University of Kentucky, Lexington | |
| Major: | Agricultural | FE Examination: | Other Disciplines |

| | Institution | ABET Comparator ² |
|-----------------------------------|-------------|---------------------------------|
| No. Examinees Taking ¹ | 1 | 38 |
| No. Examinees Passing | 1 | 34 |
| Percent Examinees Passing | 100% | 89% |

| |
|--|
| Uncertainty Range for Scaled Score ⁴ ± 1.00 |
|--|

| | Number of Exam Questions | Institution Average Performance Index ³ | ABET Comparator Average Performance Index | ABET Comparator Standard Deviation | Ratio Score ⁴ | Scaled Score ⁴ |
|--|--------------------------------|---|---|---|-----------------------------|------------------------------|
| Mathematics and Advanced Engineering Mathematics | 12 | 15.0 | 9.2 | 1.6 | 1.63 | 3.63 |
| Probability and Statistics | 6 | 10.9 | 9.7 | 2.2 | 1.12 | 0.55 |
| Chemistry | 7 | 15.0 | 9.6 | 2.5 | 1.56 | 2.16 |
| Instrumentation and Data Acquisition | 4 | 15.0 | 9.8 | 2.9 | 1.53 | 1.79 |
| Ethics and Professional Practice | 3 | 15.0 | 11.4 | 3.7 | 1.32 | 0.97 |
| Safety, Health, and Environment | 4 | 10.3 | 10.8 | 3.2 | 0.95 | -0.16 |
| Engineering Economics | 7 | 15.0 | 10.1 | 2.4 | 1.49 | 2.04 |
| Statics | 8 | 9.0 | 9.9 | 2.0 | 0.91 | -0.45 |
| Dynamics | 7 | 8.7 | 10.0 | 2.2 | 0.87 | -0.59 |
| Strength of Materials | 8 | 11.1 | 9.8 | 1.2 | 1.13 | 1.08 |
| Materials Science | 6 | 8.5 | 10.0 | 2.3 | 0.85 | -0.65 |
| Fluid Mechanics and Dynamics of Liquids | 8 | 8.9 | 10.2 | 1.9 | 0.87 | -0.68 |
| Fluid Mechanics and Dynamics of Gases | 4 | 15.0 | 10.0 | 3.3 | 1.50 | 1.52 |
| Electricity, Power, and Magnetism | 7 | 10.8 | 10.0 | 2.2 | 1.08 | 0.36 |
| Heat, Mass, and Energy Transfer | 9 | 11.1 | 9.0 | 2.5 | 1.23 | 0.84 |

- 0 examinees have been removed from this data because they were flagged as a random guesser.
- Comparator includes all examinees from programs accredited by the ABET commission noted.
- Performance index is based on a 0–15 scale.
- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

□

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 within 12 months of Graduation Date

| | | | |
|----------------------|-----------------------------------|-----------------|----------|
| Name of Institution: | University of Kentucky, Lexington | | |
| Major: | Chemical | FE Examination: | Chemical |

| | Institution | ABET Comparator ² |
|-----------------------------------|-------------|---------------------------------|
| No. Examinees Taking ¹ | 4 | 556 |
| No. Examinees Passing | 3 | 406 |
| Percent Examinees Passing | 75% | 73% |

| |
|--|
| Uncertainty Range for Scaled Score ⁴ ± 0.50 |
|--|

| | Number of Exam Questions | Institution Average Performance Index ³ | ABET Comparator Average Performance Index | ABET Comparator Standard Deviation | Ratio Score ⁴ | Scaled Score ⁴ |
|----------------------------------|--------------------------------|---|---|---|-----------------------------|------------------------------|
| Mathematics | 8 | 9.6 | 10.5 | 3.1 | 0.91 | -0.29 |
| Probability and Statistics | 4 | 11.8 | 10.4 | 3.6 | 1.13 | 0.39 |
| Engineering Sciences | 4 | 9.2 | 10.4 | 3.5 | 0.88 | -0.34 |
| Computational Tools | 4 | 10.8 | 10.1 | 3.2 | 1.07 | 0.22 |
| Materials Science | 4 | 10.0 | 10.4 | 3.4 | 0.96 | -0.12 |
| Chemistry | 8 | 10.3 | 10.1 | 2.8 | 1.02 | 0.07 |
| Fluid Mechanics/Dynamics | 8 | 7.9 | 9.9 | 2.4 | 0.80 | -0.83 |
| Thermodynamics | 8 | 10.1 | 9.5 | 2.0 | 1.06 | 0.30 |
| Material/Energy Balances | 8 | 9.4 | 9.5 | 2.7 | 0.99 | -0.04 |
| Heat Transfer | 8 | 9.2 | 9.8 | 2.8 | 0.94 | -0.21 |
| Mass Transfer and Separation | 8 | 9.4 | 9.5 | 2.2 | 0.99 | -0.05 |
| Chemical Reaction Engineering | 8 | 9.0 | 9.6 | 2.6 | 0.94 | -0.23 |
| Process Design and Economics | 8 | 9.1 | 9.4 | 2.4 | 0.97 | -0.13 |
| Process Control | 5 | 9.8 | 9.6 | 3.2 | 1.02 | 0.06 |
| Safety, Health, and Environment | 5 | 11.8 | 9.4 | 3.5 | 1.26 | 0.69 |
| Ethics and Professional Practice | 2 | 15.0 | 11.1 | 5.2 | 1.35 | 0.75 |

- ¹ 0 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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 within 12 months of Graduation Date

| | | | |
|----------------------|-----------------------------------|-----------------|-------|
| Name of Institution: | University of Kentucky, Lexington | | |
| Major: | Civil | FE Examination: | Civil |

| | Institution | ABET Comparator ² |
|-----------------------------------|-------------|---------------------------------|
| No. Examinees Taking ¹ | 24 | 3,620 |
| No. Examinees Passing | 16 | 2,397 |
| Percent Examinees Passing | 67% | 66% |

| |
|--|
| Uncertainty Range for Scaled Score ⁴ ± 0.20 |
|--|

| | Number of Exam Questions | Institution Average Performance Index ³ | ABET Comparator Average Performance Index | ABET Comparator Standard Deviation | Ratio Score ⁴ | Scaled Score ⁴ |
|-----------------------------------|--------------------------------|---|---|---|-----------------------------|------------------------------|
| Mathematics | 7 | 9.1 | 9.7 | 2.8 | 0.94 | -0.21 |
| Probability and Statistics | 4 | 9.3 | 9.6 | 3.5 | 0.97 | -0.09 |
| Computational Tools | 4 | 9.6 | 10.0 | 3.4 | 0.96 | -0.12 |
| Ethics and Professional Practice | 4 | 11.4 | 10.2 | 3.5 | 1.12 | 0.34 |
| Engineering Economics | 4 | 10.3 | 9.8 | 3.6 | 1.05 | 0.14 |
| Statics | 7 | 8.2 | 9.3 | 2.7 | 0.88 | -0.41 |
| Dynamics | 4 | 9.1 | 9.6 | 3.6 | 0.95 | -0.14 |
| Mechanics of Materials | 7 | 8.8 | 9.2 | 2.3 | 0.96 | -0.17 |
| Materials | 4 | 8.6 | 9.2 | 3.3 | 0.93 | -0.18 |
| Fluid Mechanics | 4 | 10.5 | 9.9 | 3.6 | 1.06 | 0.17 |
| Hydraulics and Hydrologic Systems | 8 | 9.5 | 9.2 | 2.3 | 1.03 | 0.13 |
| Structural Analysis | 6 | 7.9 | 8.9 | 2.3 | 0.89 | -0.43 |
| Structural Design | 6 | 7.8 | 8.9 | 2.5 | 0.88 | -0.44 |
| Geotechnical Engineering | 9 | 8.8 | 9.0 | 1.9 | 0.98 | -0.11 |
| Transportation Engineering | 8 | 9.5 | 9.1 | 2.0 | 1.04 | 0.20 |
| Environmental Engineering | 6 | 8.9 | 9.3 | 2.5 | 0.96 | -0.16 |
| Construction | 4 | 9.8 | 9.7 | 3.6 | 1.01 | 0.03 |
| Surveying | 4 | 8.9 | 8.6 | 3.7 | 1.03 | 0.08 |

- 0 examinees have been removed from this data because they were flagged as a random guesser.
- Comparator includes all examinees from programs accredited by the ABET commission noted.
- Performance index is based on a 0–15 scale.
- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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 within 12 months of Graduation Date

| | | | |
|----------------------|----------|-----------------------------------|-------------------------|
| Name of Institution: | | University of Kentucky, Lexington | |
| Major: | Computer | FE Examination: | Electrical and Computer |

| | Institution | ABET Comparator ² |
|-----------------------------------|-------------|---------------------------------|
| No. Examinees Taking ¹ | 1 | 62 |
| No. Examinees Passing | 1 | 36 |
| Percent Examinees Passing | 100% | 58% |

| |
|--|
| Uncertainty Range for Scaled Score ⁴ ± 1.00 |
|--|

| | Number of Exam Questions | Institution Average Performance Index ³ | ABET Comparator Average Performance Index | ABET Comparator Standard Deviation | Ratio Score ⁴ | Scaled Score ⁴ |
|---|--------------------------------|---|---|---|-----------------------------|------------------------------|
| Mathematics | 11 | 15.0 | 9.2 | 2.8 | 1.63 | 2.07 |
| Probability and Statistics | 4 | 15.0 | 9.5 | 3.6 | 1.58 | 1.53 |
| Ethics and Professional Practice | 3 | 7.2 | 11.6 | 4.1 | 0.62 | -1.07 |
| Engineering Economics | 3 | 0.0 | 9.1 | 3.8 | 0.00 | -2.39 |
| Properties of Electrical Materials | 4 | 9.4 | 8.7 | 3.2 | 1.08 | 0.22 |
| Engineering Sciences | 6 | 15.0 | 9.3 | 3.2 | 1.61 | 1.78 |
| Circuit Analysis (DC and AC Steady State) | 10 | 8.0 | 8.6 | 2.1 | 0.93 | -0.29 |
| Linear Systems | 5 | 10.3 | 8.1 | 2.8 | 1.27 | 0.79 |
| Signal Processing | 5 | 10.9 | 9.0 | 2.8 | 1.21 | 0.68 |
| Electronics | 7 | 7.3 | 8.4 | 2.3 | 0.87 | -0.48 |
| Power | 8 | 5.4 | 8.1 | 2.1 | 0.67 | -1.29 |
| Electromagnetics | 5 | 10.2 | 8.3 | 2.8 | 1.23 | 0.68 |
| Control Systems | 6 | 6.5 | 8.2 | 2.3 | 0.79 | -0.74 |
| Communications | 5 | 11.0 | 8.7 | 3.1 | 1.26 | 0.74 |
| Computer Networks | 3 | 7.2 | 9.9 | 3.6 | 0.73 | -0.75 |
| Digital Systems | 7 | 15.0 | 9.6 | 2.4 | 1.56 | 2.25 |
| Computer Systems | 4 | 7.3 | 9.7 | 3.5 | 0.75 | -0.69 |
| Software Development | 4 | 15.0 | 10.5 | 3.8 | 1.43 | 1.18 |

- 0 examinees have been removed from this data because they were flagged as a random guesser.
- Comparator includes all examinees from programs accredited by the ABET commission noted.
- Performance index is based on a 0–15 scale.
- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

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 within 12 months of Graduation Date

| | | | |
|----------------------|-----------------------------------|-----------------|-------------------------|
| Name of Institution: | University of Kentucky, Lexington | | |
| Major: | Electrical | FE Examination: | Electrical and Computer |

| | Institution | ABET Comparator ² |
|-----------------------------------|-------------|---------------------------------|
| No. Examinees Taking ¹ | 7 | 906 |
| No. Examinees Passing | 6 | 636 |
| Percent Examinees Passing | 86% | 70% |

| |
|--|
| Uncertainty Range for Scaled Score ⁴ ± 0.38 |
|--|

| | Number of Exam Questions | Institution Average Performance Index ³ | ABET Comparator Average Performance Index | ABET Comparator Standard Deviation | Ratio Score ⁴ | Scaled Score ⁴ |
|---|--------------------------------|---|---|---|-----------------------------|------------------------------|
| Mathematics | 11 | 11.3 | 9.6 | 2.3 | 1.18 | 0.74 |
| Probability and Statistics | 4 | 11.2 | 9.9 | 3.5 | 1.13 | 0.37 |
| Ethics and Professional Practice | 3 | 14.0 | 11.4 | 4.1 | 1.23 | 0.63 |
| Engineering Economics | 3 | 11.3 | 9.8 | 4.3 | 1.15 | 0.35 |
| Properties of Electrical Materials | 4 | 8.9 | 9.5 | 3.4 | 0.94 | -0.18 |
| Engineering Sciences | 6 | 9.7 | 10.0 | 3.3 | 0.97 | -0.09 |
| Circuit Analysis (DC and AC Steady State) | 10 | 9.2 | 9.4 | 2.2 | 0.98 | -0.09 |
| Linear Systems | 5 | 9.7 | 9.2 | 2.9 | 1.05 | 0.17 |
| Signal Processing | 5 | 8.0 | 9.1 | 2.6 | 0.88 | -0.42 |
| Electronics | 7 | 8.7 | 9.1 | 2.2 | 0.96 | -0.18 |
| Power | 8 | 9.5 | 9.1 | 2.1 | 1.04 | 0.19 |
| Electromagnetics | 5 | 7.8 | 9.3 | 2.7 | 0.84 | -0.56 |
| Control Systems | 6 | 10.1 | 9.2 | 2.6 | 1.10 | 0.35 |
| Communications | 5 | 9.8 | 9.1 | 2.8 | 1.08 | 0.25 |
| Computer Networks | 3 | 11.4 | 9.2 | 3.9 | 1.24 | 0.56 |
| Digital Systems | 7 | 9.8 | 9.3 | 2.5 | 1.05 | 0.20 |
| Computer Systems | 4 | 10.0 | 8.9 | 3.5 | 1.12 | 0.31 |
| Software Development | 4 | 10.3 | 9.6 | 3.9 | 1.07 | 0.18 |

- 0 examinees have been removed from this data because they were flagged as a random guesser.
- Comparator includes all examinees from programs accredited by the ABET commission noted.
- Performance index is based on a 0–15 scale.
- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.

□

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 within 12 months of Graduation Date

| | | | |
|----------------------|-----------------------------------|-----------------|------------|
| Name of Institution: | University of Kentucky, Lexington | | |
| Major: | Mechanical | FE Examination: | Mechanical |

| | Institution | ABET Comparator ² |
|-----------------------------------|-------------|---------------------------------|
| No. Examinees Taking ¹ | 9 | 2,709 |
| No. Examinees Passing | 8 | 2,092 |
| Percent Examinees Passing | 89% | 77% |

| |
|--|
| Uncertainty Range for Scaled Score ⁴ ± 0.33 |
|--|

| | Number of Exam Questions | Institution Average Performance Index ³ | ABET Comparator Average Performance Index | ABET Comparator Standard Deviation | Ratio Score ⁴ | Scaled Score ⁴ |
|---|--------------------------------|---|---|---|-----------------------------|------------------------------|
| Mathematics | 6 | 12.2 | 10.1 | 2.8 | 1.21 | 0.75 |
| Probability and Statistics | 4 | 13.7 | 9.6 | 3.2 | 1.43 | 1.28 |
| Computational Tools | 3 | 12.0 | 10.6 | 3.9 | 1.13 | 0.36 |
| Ethics and Professional Practice | 3 | 12.8 | 11.1 | 3.9 | 1.15 | 0.44 |
| Engineering Economics | 3 | 11.7 | 10.3 | 4.1 | 1.14 | 0.34 |
| Electricity and Magnetism | 3 | 10.0 | 10.0 | 4.1 | 1.00 | 0.00 |
| Statics | 8 | 10.2 | 9.5 | 2.2 | 1.07 | 0.32 |
| Dynamics, Kinematics, and Vibrations | 9 | 9.6 | 9.4 | 2.0 | 1.02 | 0.10 |
| Mechanics of Materials | 8 | 10.4 | 9.4 | 2.1 | 1.11 | 0.48 |
| Material Properties and Processing | 8 | 9.3 | 9.5 | 2.1 | 0.98 | -0.10 |
| Fluid Mechanics | 9 | 11.1 | 9.5 | 2.0 | 1.17 | 0.80 |
| Thermodynamics | 13 | 10.5 | 9.3 | 1.5 | 1.13 | 0.80 |
| Heat Transfer | 9 | 11.5 | 9.6 | 2.2 | 1.20 | 0.86 |
| Measurements, Instrumentation, and Controls | 5 | 11.4 | 9.4 | 3.0 | 1.21 | 0.67 |
| Mechanical Design and Analysis | 9 | 10.5 | 9.2 | 2.2 | 1.14 | 0.59 |

- 0 examinees have been removed from this data because they were flagged as a random guesser.
- Comparator includes all examinees from programs accredited by the ABET commission noted.
- Performance index is based on a 0–15 scale.
- 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/>.

TERMS AND CONDITIONS OF DATA USE

This report contains confidential and proprietary NCEES data. The report itself may not be provided to third parties or used for any purpose other than that contemplated by NCEES and the recipient of this report. The information contained in this report however may be shared with accrediting bodies so long as the report recipient expressly informs the accrediting body that the information is confidential and proprietary and may not be used for any purpose unrelated to the accreditation review of the institution or program in question.

By using any of the information contained in this report the report recipient agrees to respect and be bound by these terms conditions and limitations regarding the use of NCEES data. Your cooperation is appreciated.