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

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

**Exams administered:** Jul 01—Dec 31, 2020

**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, Paducah

**Major:** Mechanical

**FE Examination:** Mechanical

<table>
<thead>
<tr>
<th>No. Examinees Taking</th>
<th>No. Examinees Passing</th>
<th>Percent Examinees Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0%</td>
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**Number of Exam Questions** | **Institution Average Performance Index** | **ABET Comparator Average Performance Index** | **ABET Comparator Standard Deviation** | **Ratio Score** | **Scaled Score**  
--- | --- | --- | --- | --- | ---
Mathematics | 6 | 8.6 | 10.0 | 2.9 | 0.86 | -0.48
Probability and Statistics | 4 | 8.0 | 9.6 | 3.3 | 0.83 | -0.48
Ethics and Professional Practice | 4 | 15.0 | 11.1 | 3.6 | 1.35 | 1.08
Engineering Economics | 4 | 9.1 | 10.4 | 3.5 | 0.88 | -0.37
Electricity and Magnetism | 5 | 9.1 | 9.9 | 3.0 | 0.92 | -0.27
Statics | 9 | 10.1 | 9.6 | 2.3 | 1.05 | 0.22
Dynamics, Kinematics, and Vibrations | 10 | 7.6 | 9.5 | 2.1 | 0.80 | -0.90
Mechanics of Materials | 9 | 8.4 | 9.3 | 2.0 | 0.90 | -0.45
Material Properties and Processing | 7 | 8.7 | 9.3 | 2.5 | 0.94 | -0.24
Fluid Mechanics | 10 | 6.8 | 9.3 | 2.2 | 0.73 | -1.14
Thermodynamics | 10 | 7.8 | 9.3 | 2.0 | 0.84 | -0.75
Heat Transfer | 7 | 7.5 | 9.6 | 2.8 | 0.78 | -0.75
Measurements, Instrumentation, and Controls | 5 | 6.0 | 8.8 | 3.2 | 0.00 | -2.75
Mechanical Design and Analysis | 10 | 5.5 | 9.1 | 2.5 | 0.60 | -1.44

1. 6 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 https://ncees.org/education/outcomes-assessment/.

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