

**Examination:** Fundamentals of Engineering (FE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jan 01 – Jun 30, 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

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	1	693
No. Examinees Passing	1	540
Percent Examinees Passing	100%	78%

Uncertainty Range for Scaled Score <sup>4</sup> $\pm 1.00$
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	Number of Exam Questions	Institution Average Performance Index <sup>3</sup>	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score <sup>4</sup>	Scaled Score <sup>4</sup>
Mathematics	6	9.0	9.8	2.7	0.92	-0.30
Probability and Statistics	4	6.4	9.8	3.5	0.65	-0.97
Computational Tools	3	0.0	10.8	4.3	0.00	-2.51
Ethics and Professional Practice	3	15.0	11.9	3.8	1.26	0.82
Engineering Economics	3	15.0	10.2	4.1	1.47	1.17
Electricity and Magnetism	3	9.9	10.2	4.0	0.97	-0.07
Statics	8	10.7	9.7	2.5	1.10	0.40
Dynamics, Kinematics, and Vibrations	9	9.1	9.5	2.1	0.96	-0.19
Mechanics of Materials	8	10.2	9.4	2.1	1.09	0.38
Material Properties and Processing	8	9.9	9.6	2.2	1.03	0.14
Fluid Mechanics	9	8.2	9.7	2.2	0.85	-0.68
Thermodynamics	13	8.0	9.4	1.7	0.85	-0.82
Heat Transfer	9	8.7	9.5	2.5	0.92	-0.32
Measurements, Instrumentation, and Controls	5	10.6	9.1	3.0	1.16	0.50
Mechanical Design and Analysis	9	9.9	9.1	2.5	1.09	0.32

- 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/>.

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