

**Examination:** Fundamentals of Engineering (FE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jan 01—Jun 30, 2017  
**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, Paducah		
Major:	Mechanical	FE Examination:	Mechanical

	Institution	ABET Comparator <sup>2</sup>
No. Examinees Taking <sup>1</sup>	7	4,070
No. Examinees Passing	5	3,188
Percent Examinees Passing	71%	78%

<b>Uncertainty Range for Scaled Score <sup>4</sup></b> ± 0.38
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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	8.0	10.2	2.8	0.78	-0.79
Probability and Statistics	4	7.0	9.6	3.3	0.73	-0.79
Computational Tools	3	9.1	10.7	3.9	0.85	-0.41
Ethics and Professional Practice	3	12.1	11.5	3.8	1.05	0.16
Engineering Economics	3	11.0	10.1	4.0	1.09	0.23
Electricity and Magnetism	3	9.1	10.3	3.9	0.88	-0.31
Statics	8	9.1	9.7	2.5	0.94	-0.24
Dynamics, Kinematics, and Vibrations	9	8.6	9.4	2.0	0.91	-0.40
Mechanics of Materials	8	8.4	9.3	2.0	0.90	-0.45
Material Properties and Processing	8	8.9	9.6	2.3	0.93	-0.30
Fluid Mechanics	9	7.9	9.6	2.3	0.82	-0.74
Thermodynamics	13	8.8	9.4	1.6	0.94	-0.38
Heat Transfer	9	9.2	9.7	2.2	0.95	-0.23
Measurements, Instrumentation, and Controls	5	8.1	9.3	3.0	0.87	-0.40
Mechanical Design and Analysis	9	8.9	9.2	2.2	0.97	-0.14

- 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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