



# NCEES

**Examination:** Fundamentals of Engineering (FE)  
**Report title:** Subject Matter Report by Major and Examination  
**Exams administered:** Jan 01 – Jun 30, 2021  
**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>	13	3,440
No. Examinees Passing	8	2,599
Percent Examinees Passing	62%	76%

<b>Uncertainty Range for Scaled Score <sup>4</sup></b> $\pm 0.28$
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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	9.9	10.0	2.9	0.99	-0.03
Probability and Statistics	4	9.0	9.7	3.2	0.93	-0.22
Ethics and Professional Practice	4	9.5	11.1	3.6	0.86	-0.44
Engineering Economics	4	8.8	9.9	3.5	0.89	-0.31
Electricity and Magnetism	5	9.2	9.9	3.1	0.93	-0.23
Statics	9	8.2	9.4	2.3	0.87	-0.52
Dynamics, Kinematics, and Vibrations	10	8.5	9.3	2.0	0.91	-0.40
Mechanics of Materials	9	8.4	9.3	1.9	0.90	-0.47
Material Properties and Processing	7	8.9	9.5	2.3	0.94	-0.26
Fluid Mechanics	10	8.3	9.3	2.0	0.89	-0.50
Thermodynamics	10	8.9	9.2	1.7	0.97	-0.18
Heat Transfer	7	8.7	9.7	2.6	0.90	-0.38
Measurements, Instrumentation, and Controls	5	8.1	9.4	2.9	0.86	-0.45
Mechanical Design and Analysis	10	8.6	9.4	2.1	0.91	-0.38

- 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 <https://ncees.org/education/outcomes-assessment/>.

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