

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—Jun 30, 2018
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 ²
No. Examinees Taking ¹	2	4,329
No. Examinees Passing	1	3,444
Percent Examinees Passing	50%	80%

Uncertainty Range for Scaled Score ⁴ ± 0.71
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	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	11.5	10.0	2.8	1.15	0.54
Probability and Statistics	4	8.6	9.8	3.3	0.88	-0.36
Computational Tools	3	15.0	10.5	4.0	1.43	1.13
Ethics and Professional Practice	3	7.4	11.2	3.9	0.66	-0.97
Engineering Economics	3	4.5	10.1	4.1	0.45	-1.37
Electricity and Magnetism	3	12.1	10.4	4.0	1.16	0.43
Statics	8	9.0	9.7	2.3	0.93	-0.30
Dynamics, Kinematics, and Vibrations	9	7.7	9.6	2.2	0.80	-0.86
Mechanics of Materials	8	6.2	9.5	2.0	0.65	-1.65
Material Properties and Processing	8	9.6	9.6	2.1	1.00	0.00
Fluid Mechanics	9	7.4	9.6	2.1	0.77	-1.05
Thermodynamics	13	8.6	9.3	1.5	0.92	-0.47
Heat Transfer	9	9.7	9.7	2.1	1.00	0.00
Measurements, Instrumentation, and Controls	5	8.7	9.4	3.2	0.93	-0.22
Mechanical Design and Analysis	9	9.4	9.2	2.2	1.02	0.09

- 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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