

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jul 01—Dec 31, 2018
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 ²
No. Examinees Taking ¹	1	979
No. Examinees Passing	1	721
Percent Examinees Passing	100%	74%

Uncertainty Range for Scaled Score ⁴ ± 1.00

	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	15.0	10.0	2.9	1.50	1.72
Probability and Statistics	4	8.8	9.5	3.2	0.93	-0.22
Computational Tools	3	8.4	11.0	4.1	0.76	-0.63
Ethics and Professional Practice	3	6.1	11.7	4.0	0.52	-1.40
Engineering Economics	3	15.0	10.4	4.1	1.44	1.12
Electricity and Magnetism	3	9.0	10.1	3.9	0.89	-0.28
Statics	8	15.0	9.6	2.6	1.56	2.08
Dynamics, Kinematics, and Vibrations	9	15.0	9.6	2.2	1.56	2.45
Mechanics of Materials	8	9.8	9.2	2.2	1.07	0.27
Material Properties and Processing	8	10.4	9.5	2.2	1.09	0.41
Fluid Mechanics	9	10.4	9.6	2.1	1.08	0.38
Thermodynamics	13	11.6	9.3	1.6	1.25	1.44
Heat Transfer	9	10.1	9.4	2.2	1.07	0.32
Measurements, Instrumentation, and Controls	5	9.8	8.8	3.3	1.11	0.30
Mechanical Design and Analysis	9	10.5	8.9	2.5	1.18	0.64

- 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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