

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 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	2,126
No. Examinees Passing	2	1,705
Percent Examinees Passing	100%	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	12.6	10.0	2.7	1.26	0.96
Probability and Statistics	4	15.0	10.0	3.3	1.50	1.52
Computational Tools	3	11.3	10.8	4.0	1.05	0.13
Ethics and Professional Practice	3	11.4	11.3	3.9	1.01	0.03
Engineering Economics	3	15.0	10.0	4.0	1.50	1.25
Electricity and Magnetism	3	11.4	10.3	4.0	1.11	0.28
Statics	8	10.5	9.7	2.3	1.08	0.35
Dynamics, Kinematics, and Vibrations	9	9.6	9.5	2.1	1.01	0.05
Mechanics of Materials	8	12.5	9.6	2.0	1.30	1.45
Material Properties and Processing	8	10.1	9.5	2.1	1.06	0.29
Fluid Mechanics	9	10.3	9.7	2.1	1.06	0.29
Thermodynamics	13	10.2	9.4	1.5	1.09	0.53
Heat Transfer	9	12.9	9.7	2.2	1.33	1.45
Measurements, Instrumentation, and Controls	5	11.4	9.6	2.9	1.19	0.62
Mechanical Design and Analysis	9	12.8	9.3	2.2	1.38	1.59

- 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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