

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 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	6	2,644
No. Examinees Passing	6	2,055
Percent Examinees Passing	100%	78%

Uncertainty Range for Scaled Score ⁴ ± 0.41
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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	10.3	10.2	2.9	1.01	0.03
Probability and Statistics	4	8.6	9.6	3.1	0.90	-0.32
Computational Tools	3	12.9	11.0	4.0	1.17	0.48
Ethics and Professional Practice	3	12.7	11.4	4.0	1.11	0.33
Engineering Economics	3	11.5	9.9	4.1	1.16	0.39
Electricity and Magnetism	3	9.8	10.0	4.0	0.98	-0.05
Statics	8	8.2	9.6	2.4	0.85	-0.58
Dynamics, Kinematics, and Vibrations	9	9.5	9.5	2.0	1.00	0.00
Mechanics of Materials	8	9.3	9.3	2.0	1.00	0.00
Material Properties and Processing	8	10.3	9.6	2.2	1.07	0.32
Fluid Mechanics	9	8.9	9.4	2.1	0.95	-0.24
Thermodynamics	13	9.7	9.3	1.5	1.04	0.27
Heat Transfer	9	10.1	9.5	2.2	1.06	0.27
Measurements, Instrumentation, and Controls	5	11.0	9.3	3.0	1.18	0.57
Mechanical Design and Analysis	9	9.5	9.2	2.2	1.03	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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