

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01—Jun 30, 2017
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:	Civil

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	12
No. Examinees Passing	0	7
Percent Examinees Passing	0%	58%

Uncertainty Range for Scaled Score ⁴ ± 1.00
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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	7	6.3	9.8	3.1	0.64	-1.13
Probability and Statistics	4	6.0	8.9	4.3	0.67	-0.67
Computational Tools	4	9.8	10.3	3.3	0.95	-0.15
Ethics and Professional Practice	4	7.6	10.8	3.5	0.70	-0.91
Engineering Economics	4	7.9	9.8	3.7	0.81	-0.51
Statics	7	7.0	10.3	3.4	0.68	-0.97
Dynamics	4	6.0	11.5	3.6	0.52	-1.53
Mechanics of Materials	7	5.7	9.8	2.9	0.58	-1.41
Materials	4	9.6	9.6	3.6	1.00	0.00
Fluid Mechanics	4	8.1	8.6	2.4	0.94	-0.21
Hydraulics and Hydrologic Systems	8	8.7	9.6	3.5	0.91	-0.26
Structural Analysis	6	7.8	8.4	1.8	0.93	-0.33
Structural Design	6	8.0	9.0	3.4	0.89	-0.29
Geotechnical Engineering	9	7.8	8.6	1.6	0.91	-0.50
Transportation Engineering	8	10.8	8.6	1.7	1.26	1.29
Environmental Engineering	6	6.8	7.8	3.5	0.87	-0.29
Construction	4	14.9	9.9	5.3	1.51	0.94
Surveying	4	8.4	9.3	3.7	0.90	-0.24

- 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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Name of Institution:	University of Kentucky, Paducah		
Major:	Mechanical	FE Examination:	Mechanical

	Institution	ABET Comparator ²
No. Examinees Taking ¹	7	4,070
No. Examinees Passing	5	3,188
Percent Examinees Passing	71%	78%

Uncertainty Range for Scaled Score ⁴ ± 0.38
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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	8.0	10.2	2.8	0.78	-0.79
Probability and Statistics	4	7.0	9.6	3.3	0.73	-0.79
Computational Tools	3	9.1	10.7	3.9	0.85	-0.41
Ethics and Professional Practice	3	12.1	11.5	3.8	1.05	0.16
Engineering Economics	3	11.0	10.1	4.0	1.09	0.23
Electricity and Magnetism	3	9.1	10.3	3.9	0.88	-0.31
Statics	8	9.1	9.7	2.5	0.94	-0.24
Dynamics, Kinematics, and Vibrations	9	8.6	9.4	2.0	0.91	-0.40
Mechanics of Materials	8	8.4	9.3	2.0	0.90	-0.45
Material Properties and Processing	8	8.9	9.6	2.3	0.93	-0.30
Fluid Mechanics	9	7.9	9.6	2.3	0.82	-0.74
Thermodynamics	13	8.8	9.4	1.6	0.94	-0.38
Heat Transfer	9	9.2	9.7	2.2	0.95	-0.23
Measurements, Instrumentation, and Controls	5	8.1	9.3	3.0	0.87	-0.40
Mechanical Design and Analysis	9	8.9	9.2	2.2	0.97	-0.14

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