

NCEES

Examination: Fundamentals of Engineering (FE)
Report title: Subject Matter Report by Major and Examination
Exams administered: Jan 01 — Jun 30, 2022
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, Lexington		
Major:	Agricultural	FE Examination:	Civil

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	4
No. Examinees Passing	0	1
Percent Examinees Passing	0%	25%

Uncertainty
Range for
Scaled
Score⁴

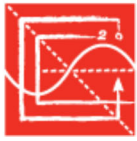
SCALE
± 1.00

Ratio Score ⁴	Scaled Score ⁴		Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation
0.83	-1.18	Mathematics and Statistics	8	6.5	7.8	1.1
0.80	-0.67	Ethics and Professional Practice	4	7.9	9.9	3.0
0.86	-0.60	Engineering Economics	5	9.1	10.6	2.5
0.92	-0.87	Statics	8	7.9	8.6	0.8
1.40	0.69	Dynamics	4	8.4	6.0	3.5
1.00	0.00	Mechanics of Materials	7	7.7	7.7	0.4
1.28	0.48	Materials	5	9.1	7.1	4.2
1.08	0.87	Fluid Mechanics	6	9.0	8.3	0.8
0.93	-0.25	Surveying	6	9.7	10.4	2.8
1.08	0.47	Water Resources and Environmental Engineering	10	9.1	8.4	1.5
0.91	-1.40	Structural Engineering	10	7.4	8.1	0.5
1.10	0.62	Geotechnical Engineering	10	9.0	8.2	1.3
0.80	-1.07	Transportation Engineering	9	5.9	7.4	1.4
1.35	0.62	Construction Engineering	8	8.8	6.5	3.7

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Name of Institution:	University of Kentucky, Lexington		
Major:	Agricultural	FE Examination:	Environmental

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	5
No. Examinees Passing	1	1
Percent Examinees Passing	100%	20%

Uncertainty Range for Scaled Score⁴

Scale
± 1.00

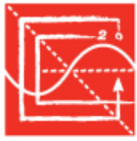
Ratio Score ⁴	Scaled Score ⁴	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation
1.15	0.69	5	8.6	7.5	1.6
2.11	1.65	4	15.0	7.1	4.8
0.93	-0.35	5	7.4	8.0	1.7
1.24	1.06	5	9.7	7.8	1.8
0.95	-0.19	7	9.1	9.6	2.7
1.42	1.82	7	10.4	7.3	1.7
1.16	1.30	4	9.4	8.1	1.0
1.03	0.17	12	8.1	7.9	1.2
0.00	-1.18	3	0.0	4.0	3.4
1.5	1.17	9	10.2	8.7	
2.9	1.60	8	15.0	9.4	
1.0	1.16	12	9.3	8.0	
1.1	1.14	8	9.2	8.1	
4.4	2.40	7	11.3	4.7	
3.5	1.55	4	10.1	6.5	

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Graduation Date: Examinees testing more than 12 months after graduation date

Name of Institution:	University of Kentucky, Lexington		
Major:	Agricultural	FE Examination:	Other Disciplines

	Institution	ABET Comparator ²
No. Examinees Taking ¹	3	6
No. Examinees Passing	2	4
Percent Examinees Passing	67%	67%

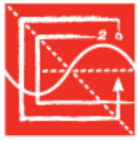
Uncertainty Range for Scaled Score ⁴ ± 0.58
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	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Mathematics	8	8.7	8.6	1.8	1.01	0.06
Probability and Statistics	6	9.5	9.2	0.7	1.03	0.43
Chemistry	5	7.8	8.3	1.3	0.94	-0.38
Instrumentation and Controls	4	9.9	10.9	3.2	0.91	-0.31
Engineering Ethics and Societal Impacts	5	15.0	11.3	3.7	1.33	1.00
Safety, Health, and Environment	6	13.1	13.1	2.6	1.00	0.00
Engineering Economics	6	10.0	10.4	2.3	0.96	-0.17
Statics	9	9.4	9.8	1.5	0.96	-0.27
Dynamics	9	8.8	8.9	2.2	0.99	-0.05
Strength of Materials	9	10.2	9.7	3.1	1.05	0.16
Materials	6	9.3	9.4	1.4	0.99	-0.07
Fluid Mechanics	12	9.8	10.5	2.4	0.93	-0.29
Basic Electrical Engineering	6	11.6	12.3	2.8	0.94	-0.25
Thermodynamics and Heat Transfer	9	10.7	10.3	2.2	1.04	0.18

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Graduation Date: Examinees testing more than 12 months after graduation date

Name of Institution:	University of Kentucky, Lexington		
Major:	Civil	FE Examination:	Civil

	Institution	ABET Comparator ²
No. Examinees Taking ¹	6	859
No. Examinees Passing	5	489
Percent Examinees Passing	83%	57%

**Uncertainty
 Range for
 Scaled
 Score ⁴**
 ± 0.41

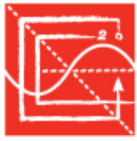
	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
Mathematics and Statistics	8	10.4	8.9	2.4	1.17	0.63
Ethics and Professional Practice	4	10.0	10.7	3.7	0.93	-0.19
Engineering Economics	5	10.9	9.1	3.2	1.20	0.56
Statics	8	11.3	8.9	2.7	1.27	0.89
Dynamics	4	9.5	9.1	3.6	1.04	0.11
Mechanics of Materials	7	9.6	8.8	2.6	1.09	0.31
Materials	5	8.2	9.2	2.9	0.89	-0.34
Fluid Mechanics	6	9.5	8.9	2.5	1.07	0.24
Surveying	6	9.5	8.9	2.5	1.07	0.24
Water Resources and Environmental Engineering	10	9.0	8.8	2.1	1.02	0.10
Structural Engineering	10	8.9	8.6	1.9	1.03	0.16
Geotechnical Engineering	10	9.7	8.7	1.9	1.11	0.53
Transportation Engineering	9	8.6	8.7	2.2	0.99	-0.05
Construction Engineering	8	10.0	8.9	2.6	1.12	0.42

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Name of Institution:		University of Kentucky, Lexington	
Major:	Electrical	FE Examination:	Electrical and Computer

	Institution	ABET Comparator ²
No. Examinees Taking ¹	6	538
No. Examinees Passing	1	339
Percent Examinees Passing	17%	63%

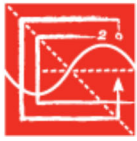
Uncertainty Range for Scaled Score ⁴
 ± 0.41

	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	11	8.6	9.5	2.5	0.91	-0.36	
Probability and Statistics	4	8.7	10.1	3.5	0.86	-0.40	
Ethics and Professional Practice	4	10.9	11.6	3.7	0.94	-0.19	
Engineering Economics	5	9.1	9.9	3.3	0.92	-0.24	
Properties of Electrical Materials	4	9.7	9.7	3.6	1.00	0.00	
Circuit Analysis (DC and AC Steady State)	11	7.2	9.1	2.2	0.79	-0.86	
Linear Systems	5	8.1	9.0	3.0	0.90	-0.30	
Classical Electrodynamics	5	7.0	8.0	2.0	0.88	-0.44	
Electronics	7	7.8	7.8	8.8	2.4	0.89	-0.42
Power Systems	8	8.9	8.9	9.2	2.4	0.97	-0.13
Electromagnetics	4	7.2	7.2	9.4	3.5	0.77	-0.63
Control Systems	6	8.2	8.2	9.0	2.6	0.91	-0.31
Communications	5	8.5	8.5	8.7	2.9	0.98	-0.07
Computer Networks	4	9.0	9.0	9.4	3.4	0.96	-0.12
Digital Systems	8	7.8	7.8	9.0	2.4	0.87	-0.50
Computer Systems	5	6.6	6.6	8.9	3.3	0.74	-0.70
Software Engineering	4	7.7	7.7	9.3	4.1	0.83	-0.39

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Name of Institution:	University of Kentucky, Lexington		
Major:	Mechanical	FE Examination:	Mechanical

	Institution	ABET Comparator ²
No. Examinees Taking ¹	4	982
No. Examinees Passing	4	690
Percent Examinees Passing	100%	70%

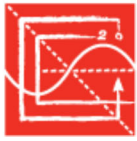
**Uncertainty
 Range for
 Scaled
 Score ⁴**
 ± 0.50

	Institution	ABET		ABET		Scale Score ⁴	Scale ⁴ Score ⁴
		Number of Exam Questions	Average Performance Index ³	Comparator Average Performance Index	Comparator Standard Deviation		
Mathematics		6	9.4	9.8	3.0	0.96	-0.13
Probability and Statistics		4	12.1	9.6	3.5	1.26	0.71
Ethics and Professional Practice		4	11.8	11.3	3.6	1.04	0.14
Engineering Economics		4	11.2	10.5	3.5	1.07	0.20
Electricity and Magnetism		5	9.5	9.2	3.0	1.03	0.10
Statics		9	12.6	9.5	2.3	1.33	1.35
Dynamics, Kinematics, and Vibrations		10	12.3	9.5	2.2	1.29	1.27
Mechanics of Materials		9	11.6	9.1	2.0	1.27	1.25
Material Properties and Processing		7	8.9	9.5	2.4	0.94	-0.25
Fluid Mechanics		10	10.4	9.3	2.1	1.12	0.52
Thermodynamics		10	9.7	9.0	1.9	1.08	0.37
Heat Transfer		7	9.4	9.4	2.6	1.00	0.00
Measurements, Instrumentation, and Controls		5	10.1	8.8	2.9	1.15	0.45
Mechanical Design and Analysis		10	9.0	8.9	2.5	1.01	0.04

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Name of Institution:	University of Kentucky, Lexington		
Major:	Mining/Mineral	FE Examination:	Other Disciplines

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	11
No. Examinees Passing	1	6
Percent Examinees Passing	100%	55%

Uncertainty
Range for
Scaled
Score ⁴

SCALE
± 1.00

Ratio Score ⁴	Scaled Score ⁴		Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation
0.98	-0.07	Mathematics	8	9.5	9.7	2.8
1.01	0.05	Probability and Statistics	6	8.2	8.1	2.2
0.86	-0.41	Chemistry	5	8.3	9.7	3.4
0.98	-0.06	Instrumentation and Controls	4	7.9	8.1	3.3
0.91	-0.26	Engineering Ethics and Societal Impacts	5	9.6	10.5	3.5
1.27	0.94	Safety, Health, and Environment	6	15.0	11.8	3.4
0.95	-0.15	Engineering Economics	6	9.3	9.8	3.3
1.02	0.22	Statics	9	8.4	8.2	0.9
0.95	-0.33	Dynamics	9	8.0	8.4	1.2
1.01	0.10	Strength of Materials	9	8.7	8.6	1.0
1.16	0.68	Materials	6	10.6	9.1	2.2
1.12	0.71	Fluid Mechanics	12	9.6	8.6	1.4
1.12	0.75	Basic Electrical Engineering	6	8.5	7.6	1.2
1.04	0.23	Thermodynamics and Heat Transfer	9	7.9	7.6	1.3

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