

Uncertainty Range for Scaled ± 1.00

Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
3.2	1.34	1.19
3.6	1.40	1.19
2.9	0.97	-0.10
3.9	1.47	1.23
1.1	1.18	1.45
2.7	1.04	0.15
2.3	1.03	0.13
2.5	1.32	1.16
3.4	1.38	1.21
2.0	1.23	1.05
1.2	1.25	1.92
1.9	1.40	1.74
1.4	1.17	1.00
0.8	1.08	0.87
1.1	1.26	1.82

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Name of Institution:

Major:

Examination: Fundamentals of Engineering (FE)

Subject Matter Report by Major and Examination Report title:

Exams administered: Jul 01 - Dec 31, 2021

Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Graduation Date: Examinees Testing within 12 months of Graduation Date

Agricultural

	Institution	ABET Comparator ²
No. Examinees Taking ¹	1	5
No. Examinees Passing	1	2
Percent Examinees Passing	100%	40%

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index
Mathematics	5	15.0	11.2
Probability and Statistics	4	15.0	10.7
Ethics and Professional Practice	5	9.4	9.7
Engineering Economics	5	15.0	10.2
Fundmental Principles	7	10.7	9.1
Environmental Chemistry	7	10.4	10.0
Health Hazards and Risk Assessment	4	11.1	10.8
Fluid Mechanics and Hydraulics	12	12.0	9.1
Thermodynamics	3	15.0	10.9
Surface Water Resources and Hydrology	9	11.3	9.2
Groundwater, Soils, and Sediments	8	11.5	9.2
Water and Wastewater	12	11.6	8.3
Air Quality and Control	8	9.7	8.3
Solid and Hazardous Waste	7	10.0	9.3
Energy and Environment	4	9.7	7.7

- 1. <u>0</u> examinees have been removed from this data because they were flagged as a random guesser. 2. Comparator includes all examinees from programs accredited by the ABET commission noted.
- - - 3. Ferformance incex is passed on a 0-16 spale.
 4. These scores are made available for assessment purposes. See the NCEES purpose using the FE as an Outcomes Assessment Tool at https://ncees.org/education/c

University of Kentucky, Lexington

Environmental

FE Examination:

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Examination: Fundamentals of Engineering (FE)

Report title: Subject Matter Report by Major and Examination

Exams administered: Jul 01-Dec 31, 2021

Examinees included: First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Graduation Date: Examinees Testing within 12 months of Graduation Date

Probability and Statistics

Engineering Economics

Strength of Materials

Basic Electrical Engineering

Thermodynamics and Heat Transfer

Fluid Mechanics

Statics

Dynamics

Materials

Instrumentation and Controls

Safety, Health, and Environment

Engineering Ethics and Societal Impacts

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

ABET Institution Comparator² 2 21 No. Examinees Taking 1 No. Examinees Passing 15 50% Percent Examinees Passing

Uncertainty Range for

Score 4

ABET **ABET** Comparator Average Comparator Standard Ratio Scaled Score 4 Score 4 Performance 9.7 8.4 9.2 2.5 0.91 -0.32 10.1 0.91 -0.27 9.0 0.78 -0.84 3.1 11.9 12.1 3.4 0.98 -0.06 9.5 10.8 3.1 0.88 -0.42 9.9 10.0 24 0.99 -0.04 8.7 9.7 1.9 0.90 -0.53 9.7 9.6 2.1 1.01 0.05 8.2 9.4 1.9 0.87 -0.63 7.1 9.3 2.7 0.76 -0.819.3 9.2 1.6 1.01 0.06 8.3 8.7 3.5 0.95 -0.11 7.8 88 19 0.89 -0.53

1. 0 examinees have been removed from this data because they were flagged as a ra

Institution

Average Performance

9

9

9

6

12

Number

of Exam

Questions

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Examination: Report title: Exams administered: Examinees included:

Graduation Date:

Fundamentals of Engineering (FE)

Subject Matter Report by Major and Examination

Jul 01 - Dec 31, 2021

First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Examinees Testing within 12 months of Graduation Date

Name of Institution:			University of Kentucky, Lexington	
Major:		Chemical FE Examination: Chemic		Chemical

	Institution	ABET Comparator ²
No. Examinees Taking ¹	3	304
No. Examinees Passing	3	224
Percent Examinees Passing	100%	74%

	Number of Exam Questions	Institution Average Performance Index ³	ABET Comparator Average Performance Index
Mathematics	6	13.0	9.9
Probability and Statistics	4	10.4	10.0
Engineering Sciences	4	11.5	9.7
Materials Science	4	10.4	10.2
Chemistry and Biology	7	10.1	10.0
Fluid Mechanics/Dynamics	8	8.7	9.3
Thermodynamics	8	10.0	9.2
Material/Energy Balances	10	10.6	8.9
Heat Transfer	8	11.3	9.5
Mass Transfer and Separation	8	10.7	9.5
Solids Handling	3	10.0	10.1
Chemical Reaction Engineering	7	10.7	9.7
Economics	4	12.6	10.0
Process Design	7	12.3	9.7
Process Control	4	11.4	9.5
Safety, Health, and Environment	5	12.2	9.7
Ethics and Professional Practice	3	12.6	11.8

1. Q examinees have been removed from this data because they were flagged as a random guesser.

3. Performance index is based on a 0–15 scale.

4. These scores are made available for assessment purposes. See the INCEES publication education of the properties of the Inceed of the In

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Uncertainty Range for Scaled ± 0.58

ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
3.1	1.31	1.00
3.6	1.04	0.11
3.5	1.19	0.51
3.4	1.02	0.06
3.0	1.01	0.03
2.4	0.94	-0.25
1.8	1.09	0.44
2.3	1.19	0.74
2.4	1.19	0.75
2.3	1.13	0.52
3.6	0.99	-0.03
2.4	1.10	0.42
3.8	1.26	0.68
2.6	1.27	1.00
3.5	1.20	0.54
3.4	1.26	0.74
4.2	1.07	0.19



Examination: Report title:

Fundamentals of Engineering (FE)

Subject Matter Report by Major and Examination

Exams administered:

Jul 01 - Dec 31, 2021

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, Lexington	
Major:	Civil	FE Examination:	Civil

	Institution	ABET Comparator ²
No. Examinees Taking ¹	21	3,608
No. Examinees Passing	17	2,227
Percent Examinees Passing	81%	62%

Uncertainty Range for Scaled Score ⁴ ±0.22

ABET Comparator Standard	Ratio	Scaled		Numl of Ex		Institution Average Performance	ABET Comparator Average
PYCS ZOVÉ.	È1	1.0.0.0	3.5.3.4.			275 <u> </u>	
2.4		1.06	0.25	Mathematics and Statistics	8	9	9.3
3.6		1.16	0.47	Ethics and Professional Practice	4	1:	2.3 10.0
3.2		0.99	-0.03	Engineering Economics	5	9	9.5
2.4		1.03	0.13	Statics	8	9).4 9.1
3.5		1.09	0.26	Dynamics	4	10	0.5 9.6
2.4		1.00	0.00	Mechanics of Materials	7	8	8.9
2.7		1.18	0.59	Materials	5	10	0.7 9.1
2.8		1.20	0.68	Fluid Mechanics	6	11	1.3 9.4
2.4		1.07	0.25	Surveying	6	9	9.1
2.0		1.04	0.20	Water Resources and Environmental Engineering	10	9	9.0
1.8		0.94	-0.28	Structural Engineering	10	8	8.1 8.6
2.0		1.07	0.30	Geotechnical Engineering	10	9	0.5 8.9
2.1		1.11	0.48	Transportation Engineering	9	10	0.0 9.0
2.5		1.11	0.40	Construction Engineering	8	10	0.1 9.1

1. 0 examinees have been removed from this data because they were flagged as a random quesser

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Comparator includes all examiness from progra Performance index is based on a 0-15 acate.



Examination: Report title:

Fundamentals of Engineering (FE)

Subject Matter Report by Major and Examination

Exams administered: Examinees included: Jul 01-Dec 31, 2021 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, Lexington Major: Electrical FE Examination: **Electrical and Computer**

	Institution	ABET Comparator ²
No. Examinees Taking ¹	2	746
No. Examinees Passing	2	561
Percent Examinees Passing	100%	75%

Uncertainty Range for Scaled Score 4 ± 0.71

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- San Balled Heart	- 130 A 10 10 1	### (P) (P)	24912
14.53	10 VIP 10 10 10 10 10 10 10 10 10 10 10 10 10		
9.6	2.4	0.92	-0.33
10.4	3.6	0.95	-0.14
11.3	3.7	1.33	1.00
10.0	3.0	0.88	-0.40
10.0	3.4	0.88	-0.35
9.5	2.3	1.00	0.00
9.3	2.9	0.86	-0.45
9.2	2.9	0.78	-0.69
9.3	2.2	1.03	0.14
9.2	2.1	0.95	-0.24
9.5	3.4	0.73	-0.76
9.5	2.6	0.93	-0.27
9.2	2.7	0.95	-0.19
9.4	3.2	1.03	0.09
9.5	2.3	0.91	-0.39
9.3	3.2	0.83	-0.50
10.0	3.7	1.22	0.59

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Comparator Number Probability and Statistics 9.9 Ethics and Professional Practice 15.0 **Engineering Economics** 8.8 Properties of Electrical Materials 8.8 Circuit Analysis (DC and AC Steady State) 9.5 Linear Systems 8.0 Signal Processing 7.2 Electronics 9.6 Power Systems 8.7 Electromagnetics 6.9 Control Systems 8.8 Communications 8.7 Computer Networks 9.7 **Digital Systems** 8.6 Computer Systems 7.7 Software Engineering

ABET

Institution

- 0 examinees have been removed from this data because they were flagged as a random guesser.
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Uncertainty Range for Scaled Score 4 ±0.26

stitution verage formance Index ³	ABET Comparator Average Performance Index	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴
10.9	9.8	2.9	1.11	0.38
10.3	9.7	3.3	1.06	0.18
9.7	10.9	3.7	0.89	-0.32
11.3	10.2	3.6	1.11	0.31
9.8	9.4	3.0	1.04	0.13
9.8	9.4	2.2	1.04	0.18
9.7	9.3	2.1	1.04	0.19
10.5	9.1	2.0	1.15	0.70
10.2	9.4	2.4	1.09	0.33
9.5	9.2	2.0	1.03	0.15
9.2	9.0	1.8	1.02	0.11
9.0	9.5	2.5	0.95	-0.20
9.5	9.1	2.8	1.04	0.14
9.7	9.1	2.1	1.07	0.29

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Name of Institution:

No. Examinees Passing

Examination: Fundamentals of Engineering (FE)

Subject Matter Report by Major and Examination Report title:

Exams administered: Jul 01 - Dec 31, 2021

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Graduation Date: Examinees Testing within 12 months of Graduation Date

Hergent Examinees Hassing

Major:	Mechanical	FE Examination:		Mechanical
			Institution	ABET Comparator ²
No. Examinees Taking ¹			15	2,423

	Number of Exam Questions
Mathematics	6
Probability and Statistics	4
Ethics and Professional Practice	4
Engineering Economics	4
Electricity and Magnetism	5
Statics	9
Dynamics, Kinematics, and Vibrations	10
Mechanics of Materials	9
Material Properties and Processing	7
Fluid Mechanics	10
Thermodynamics	10
Heat Transfer	7
Measurements, Instrumentation, and Controls	5
Mechanical Design and Analysis	10

University of Kentucky, Lexington

13

1,721

- 1. $\underline{\mathbf{0}}$ examinees have been removed from this data because they were flagged as a random
- Comparator includes all examinees from programs accredited by the ABET commissions.
 Performance index is based on a 0–15 scale.
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Examination: Report title:

Fundamentals of Engineering (FE)

Subject Matter Report by Major and Examination

Exams administered: Examinees included: Jul 01-Dec 31, 2021 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, Lexington			
Major:	Mining/Mineral	FE Examination:	Other Disciplines		

ABET Institution Comparator² No Examinees Taking 1 15 No. Examinees Passing Percent Examinees Passing 33% 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
8	7.1	7.4	1.1	0.96	-0.27
6	7.8	8.2	1.3	0.95	-0.31
5	7.2	8.2	1.2	0.88	-0.83
4	15.0	10.1	4.3	1.49	1.14
5	5.7	9.2	3.2	0.62	-1.09
6	7.2	9.6	3.2	0.75	-0.75
6	8.0	8.3	1.7	0.96	-0.18
9	10.6	8.6	1.3	1.23	1.54
9	0.0	7.3	2.5	0.00	-2.92
9	10.0	7.9	1.4	1.27	1.50
6	8.7	10.0	3.5	0.87	-0.37
12	8.7	8.0	1.8	1.09	0.39
6	5.5	7.5	2.5	0.73	-0.80
 Q	8.R 	8.0	24	1.10 ,	0.33

0%

Mathematics Probability and Statistics Chemistry Instrumentation and Controls Engineering Ethics and Societal Impac Safety, Health, and Environment **Engineering Economics** Statics **Dynamics** Strength of Materials Materials Fluid Mechanics

Basic Electrical Engineering
Thermodynamics and Heat Transfel

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