

Fundamentals of Engineering (FE)

Subject Matter Report by Major and Examination

Exams administered:

No. Examinees Taking 1

Jul 01 - Dec 31, 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, Lexing	ton
Major:	Agricultural	FE Examination:	Environmental

ABET

Comparator² 3

Institution

-0.97

0%	67%			Uncertainty Range for Scaled Score ⁴ ± 1.00			Percent Ex
Number Institution Average	ABET Comparator	ABET Comparator	Ratio	Scaled Section		Sester	
Mathematics	5	6.5	9.4	4.0	0.69	-0.73	
Probability and Statistics	4	8.8	10.8	2.9	0.81	-0.69	
Ethics and Professional Practice	5	15.0	13.2	2.6	1.14	0.69	
Engineering Economics	5	0.0	5.8	4.1	0.00	-1.41	
Fundmental Principles	7	7.3	8.8	1.5	0.83	-1.00	
Environmental-Chemistry-	7	5 .9	8.7	2.1	0.68	-1.53	
Health Hazards and Risk Assessment	4	6.3	12.1	4.1	0.52	-1.41	
Fluid Mechanics and Hydraulics	12	6.9	9.7	2.0	0.71	-1.40	
Thermodynamics	3	4.8	9.6	4.2	0.50	-1.14	
Surface Water Resources and Hydrology	9	8.7	12.9	3.0	0.67	-1.40	
Groundwater, Soils, and Sediments	8	5.2	9.6	3.1	0.54	-1.42	
Water and Wastewater	12	9.6	12.1	2.2	0.79	-1.14	
Air Quality and Control	8	6.7	9.5	2.1	0.71	-1.33	

- 1. 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.

Energy and Environment

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Fundamentals of Engineering (FE)

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First-Time Examinees from EAC/ABET-Accredited Engineering Programs **Graduation Date:** Examinees Testing within 12 months of Graduation Date

Mathematics

Chemistry

Statics

Dynamics

Probability and Statistics

Engineering Economics

Materials

Instrumentation and Controls

Safety, Health, and Environment

Engineering Ethics and Societal Impacts

Basic Electrical Engineering

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

ABET Institution Comparator² No. Examinees Taking 1 1 40 No. Examinees Passing 1 26 Percent Examinees Passing 100%

Uncertainty Range for Scaled Score 4

± 1.00 **ABET** Comparator Comparator Standard Ratio Scaled Average Score 4 Score ⁴ erformance 9.3 2.5 0.96 -0.16 9.0 2.5 0.69 10.1 2.9 0.81 -0.66 10.4 3.3 1.44 1.39 9.3 2.2 0.88 -0.50

8.2 8.2 10.3 9.4 2.4 1.10 0.38 9.0 2.2 0.86 -0.59 9.1 1.4 0.90 -0.64 8.8 -0.478.7 0.98 -0.07

65%

ABET

8.9

Institution

Average Performance

6

9

Number

Questions

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Fundamentals of Engineering (FE)

Subject Matter Report by Major and Examination Jul 01 - Dec 31, 2020

Exams administered: Examinees included:

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

ABET

Comparator² 150

Institution

2.0

2.6

3.8

3.8

3.5

4.6

1.02

0.87

1.24

0.87

0.92

1.02

0.

0.6

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0.0

Graduation Date: Examinees Testing within 12 months of Graduation Date

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

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9.6

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3	337						aminees Passing			
	/5%	/5%				-		Percent Examine	es Passing	
				Uncer Range Scal	e for led		egg.re ± 0.50			
		Number of Exam Questions	Institution Average Performance	ABET Comparator Average Performance	ABET Comparator Standard Deviation	Ratio Score ⁴	Scaled Score ⁴	少海軍 ひとせ		
	Mathematics				6	7.5	10.3	3.2	0.73	-0.88
	Prebability a	and Statistics			4	10.5	10.2	33-	1.03	0.0
	Engineering	Sciences			4	5.7	10.0	3.5	0.57	-1.2
	Materials So	ience			4	11.1	10.2	3.4	1.09	0.2
	Chemistry a	nd Biology			7	9.0	10.1	3.0	0.89	-0.3
	Fluid Mache	oi oo/Duno mi oo				0.5	0.5	0.0	1.00	0.0

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 Comparator includes all examinees from programs accredited by the ABET commission noted.
 Performance index is based on a 0–15 scale.

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Ethics and Professional Practice

Thermodynamics

Heat Transfer

Solids Handling

Process Contro

Economics

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> Range for Scaled Score 4

> > 0.40

Fundamentals of Engineering (FE)

Subject Matter Report by Major and Examination

Exams administered: Examinees included: Jul 01 - Dec 31, 2020 First-Time Examinees from EAC/ABET-Accredited Engineering Programs

Examinees Testing within 12 months of Graduation Date

Graduation Date:

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

ABET Institution Comparator² No. Examinees Taking No. Examinees Passing 11 Percent Examinees Passing 73%

3.70 2,587 69%

					± 0.26
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	9.4	9.5	2.5	0.99	-0.04
4	10.1	10.5	3.7	0.96	-0.11
5	9.8	9.9	3.1	0.99	-0.03
8	9.9	9.2	2.4	1.08	0.29
4	9.4	9.5	3.5	0.99	-0.03
7	9.5	9.1	2.3	1.04	0.17
5	9.9	9.3	2.8	1.06	0.21
6	10.3	9.7	2.8	1.06	0.21
6	10.2	9.4	2.4	1.09	0.33
10	9.7	9.3	1.9	1.04	0.21
10	8.6	8.9	1.7	0.97	-0.18
10	9.3	9.1	1.9	1.02	0.11
9	9.8	9.3	2.1	1.05	0.24

92

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Lees from programs accredited by the ABET commission noted.
a 0-15 scale.
lee for assessment purposes. See the NCEES publication entitled
Assessment Tool at http://ncees.org/licensure/educator-resources/.

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Mathematics and Statistics Ethics and Professional Practice **Engineering Economics** Statics **Dynamics** Mechanics of Materials Materials Fluid Mechanics Surveying Water Resources and Environmental Engineering Structural Engineering Geotechnical Engineering Transportation Engineering Construction Engineering

- 1. 0 examinees have been removed from this data because the
 - Comparator includes all examir
 Performance index is based on
 - These scores are made available. Using the FE as an Outcomes.

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Fundamentals of Engineering (FE)

Subject Matter Report by Major and Examination Jul 01 - Dec 31, 2020

Exams administered: 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:	Computer	FE Examination:	Electrical and Computer		
•		-			

	Institution	ABET Comparator ²
No Examinees Taking 1	1	44
No Everinose Dancing	—————————————————————————————————————	=
Percent Examinees Passing	100%	66%

Uncertainty Range for Scaled Score ⁴ ± 1.00

arator	ABET	Als are accounted to	- Francisco	_379:0 125		
and menca	Acuto manac	- Sandard	Marie 4			
16.54	TE ST	- 15 A 31 5 T				
15.0	9.3	2.6	1.61	2.19		
15.0	10.0	3.3	1.50	1.52		
15.0	10.8	3.8	1.39	1.11		
b	115.0	9.8	27	1.53	1.50	
4	7.8	8.4	2.6	0.93	-0.23	
11	11.5	8.6	1.8	1.34	1.61	
5	10.9	8.7	3.5	1.25	0.63	
5	9.7	9.0	3.1	1.08	0.23	
7	9.0	9.0	2.7	1.00	0.00	
8	10.1	8.5	1.8	1.19	0.89	
4	15.0	9.1	3.1	1.65	1.90	
6	9.7	9.1	1.8	1.07	0.33	
5	15.0	9.1	3.4	1.65	1.74	
4	10.7	10.1	2.2	1.06	0.27	
	8	11.4	10.3	2.3	1.11	0.48
	5	15.0	10.5	2.4	1.43	1.88
	4	15.0	12.5	3.5	1.20	0.71

ecause they were flagged as a random guesser. s accredited by the ABET commission noted.

purposes. See the NCEES publication entitled thttp://ncees.org/licensure/educator-resources/.

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Probability and Statistics Ethics and Professional Practice **Properties of Electrical Materials** Circuit Analysis (DC and AC Steady State)

Linear Systems Signal Processing Electronics

Power Systems Electromagnetics Control Systems

Communications Computer Networks

> **Digital Systems** Computer Systems Software Engineering

- examinees have been removed from this data b
 Comparator includes all examinees from program
 Performance index is based on a 0–15 scale.

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Institution

These scores are made available for assessment Using the FE as an Outcomes Assessment Tool a

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Uncertainty Range for Scaled Score 4 ±0.33

Scaled

Score 4

9.8

1.06

Examination: Fundamentals of Engineering (FE)

Report title: Subject Matter Report by Major and Examination

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

	Institution	ABE I Comparator
No. Examinees Taking ¹	9	751
No. Examinees Passing	8	546
Percent Examinees Passing	89%	73%

				Number of Exam Overtice និងមន	Institution Average Performance	Compara Average	е
				Contract of the contract of th	7	igex _a	166
	Mathematics			1	1	8.7	9.6
	Probability and Statis	stics			4	10.7	10.1
		Ethics and Pro	ofessional Practice			4	1
			Engineering	g Economics			
			Properties	of Electrical Materials			
٠.	2.0	1.01	<i>ი</i> თ " •		• •	O roult Analys	ss (DC)
	3.0	0.88	-0.37			Linear Syster	ms
	2.8	0.89	-0.36			Signal Proces	ssing
	2.3	0.97	-0.13			Electronics	
	2.2	0.89	-0.45			Power Syster	ms
	3.5	0.91	-0.26			Electromagne	etics
	2.7	0.89	-0.37			Control Syste	ems
	2.8	1.11	0.36			Communicati	ions
	3.1	0.97	-0.10			Computer Ne	etworks
	2.2	1.16	0.68			Digital Syster	ms
	2.9	0.96	-0.14			Computer Sy	stems
	3.9	1.18	0.49			Software Eng	gineering

<u>0</u> examinees
 Comparator
 Performance

ABET

- These score
- Using the Fi

TERMS AND COND

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9.1 10.3

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5

TIONS OF DATA USE

ABET Comparator Standard

Ratio

Score 4

Deviation 3.6

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0.88

8.1

8.4

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9.0

8.1

10.0

8.8

11.0

8.7

12.2

-0.35

92

9.4

9.0

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9.5

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Uncertainty Range for Scaled Score 4 ± 0.32

ABE	T				
Compa	rator	Ratio		Scaled	
raitaga Pi maros Posx	Siarcaro ICoviniler		Secre "	Secre ^	
9.9	2.8		1.16	0.57	
9.6	3.2		1.04	0.13	
11.0	3.7		0.90	-0.30	
9.9	3.6		1.04	0.11	
9.9	3.1		1.09	0.29	
9.5	2.3		1.29	1.22	
9.4	2.0		1.21	1.00	
9.3	2.0		1.16	0.75	
9.4	2.3		1.10	0.39	
9.3	2.0		1.18	0.85	
9.3	1.8		1.15	0.78	
9.8	2.6		1.10	0.38	
9.4	3.1		1.07	0.23	
9.3	2.2		1.09	0.36	

ABET commission noted.

NCEES publication entitled censure/educator-resources/.

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Name of Institution:

Examination: Fundamentals of Engineering (FE)

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Exams administered: Jul 01 - Dec 31, 2020

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

Graduation Date: Examinees Testing within 12 months of Graduation Date

Major:	Mechanical	FE Examination:	Mechanical	
			Institution	ABET Comparator ²
No. Examinees Taking 1			10	2,655
No. Examinees Passing			10	2,000
Percent Examinees Passing			100%	75%

	Number	Institution Average	ABET Comparato	
			rmarca Pa	
Mathematics		6 1	1.5	
Probability and Statistics		4 1	0.0	
Ethics and Professional Practice		4 9	9.9	
Engineering Economics		4 1	0.3	
Electricity and Magnetism		5 1	8.0	
Statics		9 1	2.3	
Dynamics, Kinematics, and Vibrations	1	0 1	1.4	
Mechanics of Materials		9 1	0.8	
Material Properties and Processing		7 1	0.3	
Fluid Mechanics	1	0 1	1.0	
Thermodynamics	1	0 1	0.7	
Heat Transfer		7 1	0.8	
Measurements, Instrumentation, and Controls		5 1	0.1	
Mechanical Design and Analysis	1	0 1	0.1	

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University of Kentucky, Lexington

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