

# NCEES

## Fundamentals of Engineering Examination

ABET - Accredited Programs

Graduates **Engineering**  
Subject Matter Report by Major and PM Examination

Institution:  
**University of Kentucky, Lexington**  
School Code: **7101**  
PM Exam **FE - Other Disciplines**

Board Code: **71**  
Major **Agricultural**

	*Institution	National	Carnegie Comparator		
Examinees Taking	2	10	5		
Examinees Passing	1	6	3		
Examinees Passing %	50	60	60		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

### AM Subject

Mathematics	19	55	61	3.6	57
Engineering Probability & Statistics	8	50	50	2.0	48
Chemistry	11	73	71	1.9	78
Computers	8	56	80	1.6	80
Ethics & Business Practices	8	88	81	1.2	80
Engineering Economics	10	70	58	1.9	60
Engineering Mechanics (Statics)	8	38	43	1.3	48
Engineering Mechanics (Dynamics)	5	30	36	1.1	40
Strength of Materials	8	31	49	1.9	55
Material Properties	8	50	66	1.3	65
Fluid Mechanics	8	69	69	1.7	68
Electricity & Magnetism	11	36	40	0.7	42
Thermodynamics	8	44	50	1.4	53

### PM Subject

Advanced Engineering Mathematics	6	58	62	0.9	60
Engineering Probability & Statistics PM	5	80	64	1.2	68
Biology	3	83	67	0.7	67
Engineering Economics PM	6	83	67	0.7	70
Application of Engineering Mechanics	8	44	49	1.4	55
Engineering of Materials	7	71	57	0.9	63
Fluids	9	44	43	1.6	44
Electricity & Magnetism PM	7	21	44	1.2	37
Thermodynamics & Heat Transfer	9	39	39	1.4	33

\* 0 examinees have been removed from this data because they (1) Answered fewer than 10% of the questions or (2) were flagged as a Random Guesser.

\*\* The standard deviation of the above is based on number of questions correct not percentage of questions correct.

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**Fundamentals of Engineering Examination**  
 ABET - Accredited Programs

Graduates	<b>Engineering</b>	Institution:	<b>University of Kentucky, Lexington</b>
Subject Matter Report by Major and PM Examination		School Code:	<b>7101</b>
Board Code:	<b>71</b>	PM Exam	<b>FE - Civil</b>
Major	<b>Civil</b>		

	*Institution	National	Carnegie Comparator		
Examinees Taking	4	1,354	340		
Examinees Passing	4	640	172		
Examinees Passing %	100	47	51		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

**AM Subject**

Mathematics	19	66	53	3.3	54
Engineering Probability & Statistics	8	41	48	1.5	48
Chemistry	11	68	51	2.4	53
Computers	8	69	63	1.7	61
Ethics & Business Practices	8	75	77	1.3	78
Engineering Economics	10	65	56	2.0	59
Engineering Mechanics (Statics)	8	59	48	1.7	49
Engineering Mechanics (Dynamics)	5	55	33	1.1	34
Strength of Materials	8	72	54	1.8	55
Material Properties	8	72	54	1.6	56
Fluid Mechanics	8	72	49	1.9	50
Electricity & Magnetism	11	27	34	1.9	33
Thermodynamics	8	47	38	1.4	38

**PM Subject**

Surveying	7	43	45	1.5	47
Hydraulics & Hydrologic Systems	7	61	48	1.6	49
Soil Mechanics & Foundations	9	69	60	1.8	60
Environmental Engineering	7	57	48	1.4	50
Transportation	7	82	64	1.4	66
Structural Analysis	6	50	36	1.2	37
Structural Design	6	42	40	1.3	41
Construction Management	6	71	51	1.2	53
Materials	5	65	45	1.1	45

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ABET - Accredited Programs

Graduates **Engineering**  
Subject Matter Report by Major and PM Examination

Institution:  
**University of Kentucky, Lexington**  
School Code: **7101**  
PM Exam **FE - Electrical**

Board Code: **71**  
Major **Electrical**

	*Institution	National	Carnegie Comparator		
Examinees Taking	4	802	216		
Examinees Passing	2	397	112		
Examinees Passing %	50	50	52		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

### AM Subject

Mathematics	19	63	64	3.5	66
Engineering Probability & Statistics	8	50	52	1.6	51
Chemistry	11	64	55	2.4	56
Computers	8	69	77	1.6	79
Ethics & Business Practices	8	88	77	1.4	79
Engineering Economics	10	60	57	2.1	57
Engineering Mechanics (Statics)	8	44	41	1.6	42
Engineering Mechanics (Dynamics)	5	45	35	1.1	35
Strength of Materials	8	28	36	1.6	37
Material Properties	8	41	51	1.7	52
Fluid Mechanics	8	53	40	1.7	39
Electricity & Magnetism	11	82	63	2.5	64
Thermodynamics	8	44	42	1.5	41

### PM Subject

Circuits	10	63	44	2.3	44
Power	8	72	63	1.7	65
Electromagnetics	4	63	43	1.0	44
Control Systems	6	33	36	1.4	35
Communications	5	50	44	1.2	43
Signal Processing	5	50	41	1.3	39
Electronics	9	50	47	1.7	47
Digital Systems	7	46	44	1.7	42
Computer Systems	6	58	52	1.6	54

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Board Code:	<b>71</b>	PM Exam	<b>FE - Environmental</b>
Major	<b>Environmental</b>		

	*Institution	National	Carnegie	Comparator	
Examinees Taking	1	116		30	
Examinees Passing	0	79		19	
Examinees Passing %	0	68		63	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

### AM Subject

Mathematics	19	47	58	3.5	54
Engineering Probability & Statistics	8	25	55	1.7	53
Chemistry	11	55	69	2.3	68
Computers	8	50	68	1.7	65
Ethics & Business Practices	8	88	80	1.0	83
Engineering Economics	10	50	61	2.0	60
Engineering Mechanics (Statics)	8	25	48	1.9	47
Engineering Mechanics (Dynamics)	5	0	36	1.2	39
Strength of Materials	8	38	42	1.7	45
Material Properties	8	63	59	1.6	58
Fluid Mechanics	8	38	58	2.0	60
Electricity & Magnetism	11	9	36	2.2	38
Thermodynamics	8	38	47	1.6	51

### PM Subject

Water Resources	15	20	47	2.6	45
Water & Wastewater Engineering	18	39	54	3.3	56
Air Quality Engineering	9	44	45	1.6	45
Solid & Hazardous Waste Engineering	9	22	60	2.0	60
Environmental Science & Management	9	33	58	1.9	53

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Board Code:	<b>71</b>	PM Exam	<b>FE - Mechanical</b>
Major	<b>Mechanical</b>		

	*Institution	National		Carnegie Comparator
Examinees Taking	1	1,159		341
Examinees Passing	1	874		254
Examinees Passing %	100	75		74
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	Prof+A&S/HGC AVG % Correct ***
			National Standard Deviation **	

### AM Subject

Mathematics	19	74	69	3.6	67
Engineering Probability & Statistics	8	75	57	1.6	55
Chemistry	11	73	62	2.4	60
Computers	8	63	78	1.5	78
Ethics & Business Practices	8	75	79	1.2	80
Engineering Economics	10	80	63	2.2	63
Engineering Mechanics (Statics)	8	75	58	1.8	56
Engineering Mechanics (Dynamics)	5	60	48	1.3	46
Strength of Materials	8	63	65	1.8	63
Material Properties	8	50	66	1.6	65
Fluid Mechanics	8	63	65	2.0	63
Electricity & Magnetism	11	91	50	2.5	48
Thermodynamics	8	25	53	1.8	53

### PM Subject

Mechanical Design & Analysis	9	33	53	1.8	52
Kinematics & Dynamics & Vibrations	9	78	57	1.7	56
Materials & Processing	6	50	60	1.3	60
Measurements & Instrumentation & Controls	6	83	61	1.3	60
Thermodynamics & Energy Conversion Processes	9	33	66	1.5	65
Fluid Mechanics & Fluid Machinery	9	44	66	1.8	66
Heat Transfer	6	50	66	1.3	67
Refrigeration & HVAC	6	50	48	1.6	47

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Board Code:	<b>71</b>	PM Exam	<b>FE - Other Disciplines</b>
Major	<b>Mining/Mineral</b>		

	*Institution	National	Carnegie Comparator
Examinees Taking	1	13	6
Examinees Passing	0	6	2
Examinees Passing %	0	46	33

# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***
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### AM Subject

Mathematics	19	53	53	3.0	52
Engineering Probability & Statistics	8	63	48	1.8	48
Chemistry	11	91	60	2.1	59
Computers	8	50	68	1.8	58
Ethics & Business Practices	8	100	79	1.2	88
Engineering Economics	10	40	58	2.1	60
Engineering Mechanics (Statics)	8	25	44	1.5	50
Engineering Mechanics (Dynamics)	5	40	40	0.8	40
Strength of Materials	8	0	47	1.9	50
Material Properties	8	50	57	1.4	63
Fluid Mechanics	8	38	46	1.8	40
Electricity & Magnetism	11	36	31	2.4	30
Thermodynamics	8	38	46	2.0	29

### PM Subject

Advanced Engineering Mathematics	6	50	51	1.2	50
Engineering Probability & Statistics PM	5	80	66	0.9	70
Biology	3	67	64	1.0	56
Engineering Economics PM	6	67	63	1.2	58
Application of Engineering Mechanics	8	38	44	1.9	44
Engineering of Materials	7	57	63	1.6	62
Fluids	9	44	47	1.6	46
Electricity & Magnetism PM	7	57	47	1.0	43
Thermodynamics & Heat Transfer	9	33	24	1.3	20

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