

# NCEES

## Fundamentals of Engineering Examination

ABET - Accredited Programs

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

	*Institution	National	Carnegie	Comparator	
Examinees Taking	2	349		81	
Examinees Passing	2	277		65	
Examinees Passing %	100	79		80	
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

### AM Subject

Mathematics	19	71	67	3.5	65
Engineering Probability & Statistics	8	38	59	1.8	59
Chemistry	11	86	76	2.1	76
Computers	8	94	70	1.7	71
Ethics & Business Practices	8	88	79	1.4	83
Engineering Economics	10	70	66	2.2	70
Engineering Mechanics (Statics)	8	19	51	1.7	49
Engineering Mechanics (Dynamics)	5	10	63	1.2	59
Strength of Materials	8	63	55	1.5	55
Material Properties	8	50	61	2.0	62
Fluid Mechanics	8	69	67	1.9	70
Electricity & Magnetism	11	55	55	2.4	57
Thermodynamics	8	69	61	1.8	64

### PM Subject

Chemistry PM	6	58	66	1.5	67
Material-Energy Balances	9	61	59	2.0	60
Chemical Engineering Thermodynamics	6	33	52	1.3	56
Fluid Dynamics	6	58	60	1.4	59
Heat Transfer	6	58	77	1.1	74
Mass Transfer	6	58	59	1.4	57
Chemical Reaction Engineering	6	50	51	1.4	56
Process Design & Economic Optimization	6	83	69	1.4	72
Computer Usage in Chemical Engineering	3	33	69	0.8	72
Process control	3	100	62	0.9	67
Safety & Health & Environmental	3	50	54	1.0	57

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 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	6	1,667	397		
Examinees Passing	3	616	162		
Examinees Passing %	50	37	41		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

**AM Subject**

Mathematics	19	60	52	3.1	51
Engineering Probability & Statistics	8	44	45	1.7	48
Chemistry	11	48	43	2.1	44
Computers	8	56	53	1.7	54
Ethics & Business Practices	8	75	72	1.5	74
Engineering Economics	10	63	56	2.1	57
Engineering Mechanics (Statics)	8	75	56	1.7	55
Engineering Mechanics (Dynamics)	5	60	53	1.2	52
Strength of Materials	8	65	59	1.5	60
Material Properties	8	46	43	1.6	44
Fluid Mechanics	8	50	53	1.7	54
Electricity & Magnetism	11	38	39	2.0	39
Thermodynamics	8	35	37	1.5	36

**PM Subject**

Surveying	7	52	38	1.4	40
Hydraulics & Hydrologic Systems	7	52	46	1.5	47
Soil Mechanics & Foundations	9	52	54	1.9	55
Environmental Engineering	7	33	44	1.4	45
Transportation	7	62	58	1.4	59
Structural Analysis	6	56	48	1.3	47
Structural Design	6	50	51	1.3	50
Construction Management	6	69	62	1.3	64
Materials	5	73	58	1.0	60

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Subject Matter Report by Major and PM Examination		School Code:	<b>7101</b>
Board Code:	<b>71</b>	PM Exam	<b>FE - Electrical</b>
Major	<b>Electrical</b>		

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>		
Examinees Taking	3	941	216		
Examinees Passing	3	449	120		
Examinees Passing %	100	48	56		
	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>

**AM Subject**

Mathematics	19	68	60	3.3	63
Engineering Probability & Statistics	8	71	49	1.8	54
Chemistry	11	58	48	2.4	52
Computers	8	96	74	1.8	79
Ethics & Business Practices	8	96	73	1.6	77
Engineering Economics	10	77	54	2.3	57
Engineering Mechanics (Statics)	8	67	47	1.7	48
Engineering Mechanics (Dynamics)	5	40	51	1.3	55
Strength of Materials	8	50	49	1.4	53
Material Properties	8	67	41	1.8	45
Fluid Mechanics	8	58	44	1.8	47
Electricity & Magnetism	11	79	66	2.2	69
Thermodynamics	8	38	43	1.6	43

**PM Subject**

Circuits	10	73	61	1.7	64
Power	8	63	47	1.7	49
Electromagnetics	4	50	51	1.1	54
Control Systems	6	50	38	1.2	40
Communications	5	67	44	1.1	47
Signal Processing	5	60	61	1.2	63
Electronics	9	67	49	2.1	53
Digital Systems	7	67	50	1.8	54
Computer Systems	6	72	51	1.5	52

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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 - Other Disciplines</b>
Major	<b>Electrical</b>		

	*Institution	National	Carnegie Comparator
Examinees Taking	2	319	74
Examinees Passing	2	102	30
Examinees Passing %	100	32	41

# 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	55	56	3.2	57
Engineering Probability & Statistics	8	56	45	1.6	47
Chemistry	11	59	41	2.0	45
Computers	8	56	66	1.9	67
Ethics & Business Practices	8	88	72	1.6	75
Engineering Economics	10	50	51	2.3	56
Engineering Mechanics (Statics)	8	44	42	1.6	45
Engineering Mechanics (Dynamics)	5	30	48	1.3	50
Strength of Materials	8	38	48	1.3	47
Material Properties	8	44	38	1.8	37
Fluid Mechanics	8	56	43	1.8	44
Electricity & Magnetism	11	73	57	2.2	60
Thermodynamics	8	63	40	1.6	45

### PM Subject

Advanced Engineering Mathematics	6	75	50	1.5	52
Engineering Probability & Statistics PM	5	40	39	1.0	42
Biology	3	67	53	0.9	61
Engineering Economics PM	6	50	45	1.4	47
Application of Engineering Mechanics	8	31	40	1.4	42
Engineering of Materials	7	21	38	1.5	40
Fluids	9	72	42	1.7	43
Electricity & Magnetism PM	7	79	57	1.5	61
Thermodynamics & Heat Transfer	9	56	45	1.8	48

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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 - Mechanical</b>
Major	<b>Mechanical</b>		

	<b>*Institution</b>	<b>National</b>		<b>Carnegie Comparator</b>
Examinees Taking	2	1,155		279
Examinees Passing	2	861		189
Examinees Passing %	100	75		68
	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>
			<b>National Standard Deviation **</b>	

**AM Subject**

Mathematics	19	66	64	3.4	61
Engineering Probability & Statistics	8	50	56	1.8	54
Chemistry	11	36	56	2.4	52
Computers	8	81	69	1.8	67
Ethics & Business Practices	8	63	79	1.4	77
Engineering Economics	10	75	61	2.3	59
Engineering Mechanics (Statics)	8	75	66	1.8	63
Engineering Mechanics (Dynamics)	5	70	68	1.2	66
Strength of Materials	8	75	66	1.5	64
Material Properties	8	63	61	1.8	57
Fluid Mechanics	8	63	64	1.9	61
Electricity & Magnetism	11	45	56	2.5	53
Thermodynamics	8	50	53	1.9	51

**PM Subject**

Mechanical Design & Analysis	9	56	53	1.7	52
Kinematics & Dynamics & Vibrations	9	33	47	1.6	46
Materials & Processing	6	50	60	1.5	58
Measurements & Instrumentation & Controls	6	58	53	1.5	51
Thermodynamics & Energy Conversion Processes	9	56	56	1.9	53
Fluid Mechanics & Fluid Machinery	9	61	58	1.7	57
Heat Transfer	6	75	58	1.4	56
Refrigeration & HVAC	6	42	41	1.4	41

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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 **Mechanical**

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>		
Examinees Taking	2	424	96		
Examinees Passing	1	243	61		
Examinees Passing %	50	57	64		
	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>

**AM Subject**

Mathematics	19	53	60	3.2	63
Engineering Probability & Statistics	8	63	48	1.7	53
Chemistry	11	41	48	2.3	51
Computers	8	31	61	1.9	65
Ethics & Business Practices	8	75	74	1.5	77
Engineering Economics	10	60	57	2.3	63
Engineering Mechanics (Statics)	8	56	59	1.7	62
Engineering Mechanics (Dynamics)	5	70	61	1.2	62
Strength of Materials	8	81	61	1.6	65
Material Properties	8	56	54	1.7	58
Fluid Mechanics	8	63	60	1.9	61
Electricity & Magnetism	11	50	51	2.4	53
Thermodynamics	8	56	50	1.6	49

**PM Subject**

Advanced Engineering Mathematics	6	42	56	1.5	57
Engineering Probability & Statistics PM	5	30	46	1.2	45
Biology	3	83	64	0.9	67
Engineering Economics PM	6	42	50	1.4	55
Application of Engineering Mechanics	8	44	56	1.6	57
Engineering of Materials	7	50	52	1.5	53
Fluids	9	56	55	2.0	58
Electricity & Magnetism PM	7	64	47	1.5	47
Thermodynamics & Heat Transfer	9	56	57	1.7	60

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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 **Mining/Mineral**

	<b>*Institution</b>	<b>National</b>	<b>Carnegie Comparator</b>		
Examinees Taking	2	7	3		
Examinees Passing	2	6	3		
Examinees Passing %	100	86	100		
	<b># Exam Questions</b>	<b>Institution AVG % Correct</b>	<b>National AVG % Correct</b>	<b>National Standard Deviation **</b>	<b>Prof+A&amp;S/HGC AVG % Correct ***</b>

### AM Subject

Mathematics	19	66	65	1.9	65
Engineering Probability & Statistics	8	44	45	0.8	50
Chemistry	11	45	47	2.7	39
Computers	8	81	70	1.5	71
Ethics & Business Practices	8	100	93	0.8	100
Engineering Economics	10	60	67	1.3	60
Engineering Mechanics (Statics)	8	44	48	0.7	50
Engineering Mechanics (Dynamics)	5	50	49	1.1	40
Strength of Materials	8	44	48	1.2	46
Material Properties	8	56	59	1.1	50
Fluid Mechanics	8	63	66	1.4	58
Electricity & Magnetism	11	32	39	1.4	36
Thermodynamics	8	56	48	1.6	54

### PM Subject

Advanced Engineering Mathematics	6	58	50	1.5	61
Engineering Probability & Statistics PM	5	50	43	0.7	53
Biology	3	83	76	0.5	78
Engineering Economics PM	6	25	52	1.5	33
Application of Engineering Mechanics	8	44	39	1.1	46
Engineering of Materials	7	57	47	1.0	57
Fluids	9	50	51	1.0	52
Electricity & Magnetism PM	7	36	41	1.1	38
Thermodynamics & Heat Transfer	9	61	43	1.6	59

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