

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	1	10	5		
Examinees Passing	1	8	5		
Examinees Passing %	100	80	100		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	95	68	2.5	74
Engineering Probability & Statistics	8	63	58	1.4	48
Chemistry	11	82	76	0.8	73
Computers	8	88	79	1.3	80
Ethics & Business Practices	8	63	89	0.9	85
Engineering Economics	10	90	66	1.8	70
Engineering Mechanics (Statics)	8	75	56	2.2	45
Engineering Mechanics (Dynamics)	5	60	42	1.0	44
Strength of Materials	8	63	55	1.3	58
Material Properties	8	75	50	1.8	50
Fluid Mechanics	8	88	75	1.1	78
Electricity & Magnetism	11	73	52	2.2	56
Thermodynamics	8	88	66	1.8	78

PM Subject

Advanced Engineering Mathematics	6	100	77	1.3	83
Engineering Probability & Statistics PM	5	20	52	1.1	48
Biology	3	67	47	0.7	53
Engineering Economics PM	6	100	68	1.7	80
Application of Engineering Mechanics	8	50	49	1.5	58
Engineering of Materials	7	57	56	1.2	57
Fluids	9	89	76	1.6	87
Electricity & Magnetism PM	7	86	54	1.4	60
Thermodynamics & Heat Transfer	9	78	58	1.5	58

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Fundamentals of Engineering Examination
 ABET - Accredited Programs

Graduates	Engineering	Institution:	University of Kentucky, Lexington
Subject Matter Report by Major and PM Examination		School Code:	7101
Board Code:	71	PM Exam	FE - Other Disciplines
Major	Biological-(not Bio-Medical)		

	*Institution	National	Carnegie Comparator
Examinees Taking	1	21	9
Examinees Passing	1	16	7
Examinees Passing %	100	76	78

	# 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	74	76	2.6	77
Engineering Probability & Statistics	8	63	61	1.9	61
Chemistry	11	64	70	1.6	70
Computers	8	88	80	1.8	79
Ethics & Business Practices	8	88	82	1.2	86
Engineering Economics	10	80	62	2.5	63
Engineering Mechanics (Statics)	8	50	67	1.7	61
Engineering Mechanics (Dynamics)	5	60	52	1.2	51
Strength of Materials	8	50	48	1.8	33
Material Properties	8	63	60	1.8	54
Fluid Mechanics	8	63	64	2.1	60
Electricity & Magnetism	11	64	55	2.6	42
Thermodynamics	8	50	55	2.0	54

PM Subject

Advanced Engineering Mathematics	6	83	80	1.0	81
Engineering Probability & Statistics PM	5	80	66	1.3	60
Biology	3	33	60	0.9	56
Engineering Economics PM	6	83	67	1.9	70
Application of Engineering Mechanics	8	63	63	1.6	50
Engineering of Materials	7	57	64	1.2	62
Fluids	9	78	66	1.6	65
Electricity & Magnetism PM	7	29	50	1.7	40
Thermodynamics & Heat Transfer	9	44	59	1.8	51

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

	*Institution	National	Carnegie Comparator		
Examinees Taking	3	1,561	373		
Examinees Passing	3	776	195		
Examinees Passing %	100	50	52		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	82	61	3.2	61
Engineering Probability & Statistics	8	46	43	1.6	44
Chemistry	11	58	53	1.9	54
Computers	8	67	64	1.8	65
Ethics & Business Practices	8	71	80	1.4	82
Engineering Economics	10	63	54	2.2	54
Engineering Mechanics (Statics)	8	63	52	1.9	53
Engineering Mechanics (Dynamics)	5	27	35	1.1	35
Strength of Materials	8	75	51	1.7	50
Material Properties	8	46	50	1.7	50
Fluid Mechanics	8	83	60	1.7	61
Electricity & Magnetism	11	30	36	1.9	36
Thermodynamics	8	58	37	1.8	36

PM Subject

Surveying	7	71	49	1.4	51
Hydraulics & Hydrologic Systems	7	62	46	1.6	47
Soil Mechanics & Foundations	9	63	52	1.7	53
Environmental Engineering	7	48	53	1.3	52
Transportation	7	43	42	1.4	44
Structural Analysis	6	44	39	1.2	38
Structural Design	6	39	52	1.4	51
Construction Management	6	61	66	1.2	67
Materials	5	47	42	1.2	44

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Subject Matter Report by Major and PM Examination		School Code:	7101
Board Code:	71	PM Exam	FE - Other Disciplines
Major	Civil		

	*Institution	National	Carnegie Comparator
Examinees Taking	2	472	98
Examinees Passing	0	163	33
Examinees Passing %	0	35	34

	# 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	63	62	3.1	62
Engineering Probability & Statistics	8	31	44	1.6	46
Chemistry	11	41	52	2.0	55
Computers	8	44	62	1.8	65
Ethics & Business Practices	8	94	79	1.4	83
Engineering Economics	10	60	54	2.2	55
Engineering Mechanics (Statics)	8	38	49	1.8	49
Engineering Mechanics (Dynamics)	5	40	34	1.1	33
Strength of Materials	8	50	49	1.6	48
Material Properties	8	38	46	1.6	45
Fluid Mechanics	8	63	57	1.7	56
Electricity & Magnetism	11	45	40	1.9	39
Thermodynamics	8	19	38	1.7	36

PM Subject

Advanced Engineering Mathematics	6	75	66	1.2	65
Engineering Probability & Statistics PM	5	50	46	1.2	43
Biology	3	50	35	0.8	35
Engineering Economics PM	6	50	54	1.6	55
Application of Engineering Mechanics	8	56	54	1.6	55
Engineering of Materials	7	43	49	1.3	47
Fluids	9	56	57	1.7	57
Electricity & Magnetism PM	7	14	34	1.4	33
Thermodynamics & Heat Transfer	9	33	46	1.5	48

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

	*Institution	National	Carnegie Comparator		
Examinees Taking	8	874	224		
Examinees Passing	4	426	109		
Examinees Passing %	50	49	49		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	72	69	3.4	70
Engineering Probability & Statistics	8	45	46	1.7	45
Chemistry	11	49	55	2.2	56
Computers	8	81	74	1.9	76
Ethics & Business Practices	8	84	79	1.4	81
Engineering Economics	10	54	54	2.4	55
Engineering Mechanics (Statics)	8	50	49	1.9	49
Engineering Mechanics (Dynamics)	5	20	35	1.2	34
Strength of Materials	8	27	35	1.5	34
Material Properties	8	45	46	1.8	46
Fluid Mechanics	8	48	48	1.7	46
Electricity & Magnetism	11	64	65	2.0	64
Thermodynamics	8	36	42	1.8	41

PM Subject

Circuits	10	56	53	2.1	53
Power	8	64	54	1.7	56
Electromagnetics	4	53	52	0.9	53
Control Systems	6	35	37	1.3	36
Communications	5	15	40	1.2	37
Signal Processing	5	48	53	1.3	53
Electronics	9	47	52	1.9	53
Digital Systems	7	43	55	1.7	54
Computer Systems	6	71	54	1.4	56

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ABET - Accredited Programs

Graduates	Engineering	Institution:	University of Kentucky, Lexington
Subject Matter Report by Major and PM Examination		School Code:	7101
Board Code:	71	PM Exam	FE - Other Disciplines
Major	Electrical		

	*Institution	National	Carnegie Comparator		
Examinees Taking	2	268	57		
Examinees Passing	2	96	33		
Examinees Passing %	100	36	58		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	87	65	3.1	69
Engineering Probability & Statistics	8	69	45	1.6	49
Chemistry	11	68	52	2.0	54
Computers	8	100	68	1.8	73
Ethics & Business Practices	8	94	80	1.3	84
Engineering Economics	10	70	55	2.3	58
Engineering Mechanics (Statics)	8	31	45	1.8	52
Engineering Mechanics (Dynamics)	5	20	30	1.1	32
Strength of Materials	8	38	36	1.4	39
Material Properties	8	50	44	1.6	46
Fluid Mechanics	8	63	51	1.6	53
Electricity & Magnetism	11	73	59	1.9	62
Thermodynamics	8	69	43	1.9	48

PM Subject

Advanced Engineering Mathematics	6	92	70	1.2	73
Engineering Probability & Statistics PM	5	70	48	1.2	54
Biology	3	67	39	0.7	43
Engineering Economics PM	6	67	57	1.6	60
Application of Engineering Mechanics	8	38	43	1.5	45
Engineering of Materials	7	64	46	1.3	48
Fluids	9	56	51	1.9	55
Electricity & Magnetism PM	7	86	54	1.7	64
Thermodynamics & Heat Transfer	9	61	46	1.6	52

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

	*Institution	National		Carnegie Comparator
Examinees Taking	3		995	242
Examinees Passing	3		736	172
Examinees Passing %	100		74	71
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **
				Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	89	73	3.2	71
Engineering Probability & Statistics	8	63	56	1.8	55
Chemistry	11	76	64	2.1	65
Computers	8	88	80	1.6	79
Ethics & Business Practices	8	75	83	1.2	84
Engineering Economics	10	67	61	2.4	62
Engineering Mechanics (Statics)	8	75	69	1.9	68
Engineering Mechanics (Dynamics)	5	53	53	1.3	52
Strength of Materials	8	71	58	1.6	56
Material Properties	8	71	64	1.8	62
Fluid Mechanics	8	88	70	1.8	69
Electricity & Magnetism	11	73	52	2.4	51
Thermodynamics	8	71	59	2.0	57

PM Subject

Mechanical Design & Analysis	9	56	66	1.7	65
Kinematics & Dynamics & Vibrations	9	63	54	2.1	54
Materials & Processing	6	56	56	1.3	55
Measurements & Instrumentation & Controls	6	72	56	1.5	53
Thermodynamics & Energy Conversion Processes	9	74	61	1.9	61
Fluid Mechanics & Fluid Machinery	9	44	57	1.8	55
Heat Transfer	6	61	55	1.2	53
Refrigeration & HVAC	6	61	61	1.3	61

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Graduates	Engineering	Institution:	University of Kentucky, Lexington
Subject Matter Report by Major and PM Examination		School Code:	7101
Board Code:	71	PM Exam	FE - Other Disciplines
Major	Mechanical		

	*Institution	National	Carnegie Comparator		
Examinees Taking	5	368	88		
Examinees Passing	2	223	59		
Examinees Passing %	40	61	67		
	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Prof+A&S/HGC AVG % Correct ***

AM Subject

Mathematics	19	69	67	3.3	66
Engineering Probability & Statistics	8	40	47	1.8	49
Chemistry	11	45	57	2.1	59
Computers	8	63	72	1.8	73
Ethics & Business Practices	8	80	81	1.3	84
Engineering Economics	10	44	59	2.4	58
Engineering Mechanics (Statics)	8	55	61	1.9	62
Engineering Mechanics (Dynamics)	5	40	43	1.2	43
Strength of Materials	8	43	53	1.6	49
Material Properties	8	55	57	1.8	58
Fluid Mechanics	8	60	65	1.8	64
Electricity & Magnetism	11	36	47	2.2	46
Thermodynamics	8	48	50	2.0	51

PM Subject

Advanced Engineering Mathematics	6	73	73	1.2	74
Engineering Probability & Statistics PM	5	64	49	1.3	50
Biology	3	53	45	0.8	47
Engineering Economics PM	6	20	62	1.7	59
Application of Engineering Mechanics	8	58	58	1.6	53
Engineering of Materials	7	57	57	1.4	59
Fluids	9	51	63	1.6	61
Electricity & Magnetism PM	7	26	46	1.6	44
Thermodynamics & Heat Transfer	9	53	58	1.7	59

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

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

AM Subject

Mathematics	19	47	47	0.0	47
Engineering Probability & Statistics	8	38	38	0.0	38
Chemistry	11	64	64	0.0	64
Computers	8	75	75	0.0	75
Ethics & Business Practices	8	88	88	0.0	88
Engineering Economics	10	30	30	0.0	30
Engineering Mechanics (Statics)	8	50	50	0.0	50
Engineering Mechanics (Dynamics)	5	40	40	0.0	40
Strength of Materials	8	13	13	0.0	13
Material Properties	8	38	38	0.0	38
Fluid Mechanics	8	50	50	0.0	50
Electricity & Magnetism	11	27	27	0.0	27
Thermodynamics	8	25	25	0.0	25

PM Subject

Surveying	7	71	71	0.0	71
Hydraulics & Hydrologic Systems	7	29	29	0.0	29
Soil Mechanics & Foundations	9	67	67	0.0	67
Environmental Engineering	7	57	57	0.0	57
Transportation	7	29	29	0.0	29
Structural Analysis	6	33	33	0.0	33
Structural Design	6	67	67	0.0	67
Construction Management	6	67	67	0.0	67
Materials	5	40	40	0.0	40

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Subject Matter Report by Major and PM Examination		School Code:	7101
Board Code:	71	PM Exam	FE - Other Disciplines
Major	Mining/Mineral		

	*Institution	National	Carnegie Comparator
Examinees Taking	4	16	9
Examinees Passing	1	10	5
Examinees Passing %	25	63	56

	# 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	62	67	3.1	68
Engineering Probability & Statistics	8	59	60	1.9	63
Chemistry	11	70	68	1.4	68
Computers	8	75	76	1.1	81
Ethics & Business Practices	8	88	88	0.7	88
Engineering Economics	10	70	71	2.3	77
Engineering Mechanics (Statics)	8	56	65	1.9	61
Engineering Mechanics (Dynamics)	5	45	43	1.1	44
Strength of Materials	8	38	51	1.4	47
Material Properties	8	59	61	1.3	65
Fluid Mechanics	8	66	75	1.8	76
Electricity & Magnetism	11	36	43	1.5	41
Thermodynamics	8	56	55	1.7	61

PM Subject

Advanced Engineering Mathematics	6	71	82	1.1	80
Engineering Probability & Statistics PM	5	40	48	1.5	53
Biology	3	50	50	0.7	44
Engineering Economics PM	6	62	70	2.1	70
Application of Engineering Mechanics	8	41	52	1.8	51
Engineering of Materials	7	64	58	1.1	60
Fluids	9	67	65	1.5	70
Electricity & Magnetism PM	7	36	47	1.2	51
Thermodynamics & Heat Transfer	9	61	54	1.8	60

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