



National Council of Examiners for Engineering and Surveying
Fundamentals of Engineering Examination
ABET - Accredited Programs

200710
2/15/2008

Graduate of	Engineering				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Agricultural	PM Exam:	FE-General		
	*Institution	National		Comparator Groupings	

Examinees Taking	2	32	23	1	8
Examinees Passing	1	16	12	0	4
Examinees Passing %	50	50	52	0	50

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	47	50	2.7	48	58	52
Engineering Probability and Statistics	8	44	46	1.2	46	50	44
Chemistry	11	64	59	2.2	62	73	48
Computers	8	62	68	1.3	69	62	67
Ethics and Business Practices	8	82	87	1.0	87	75	89
Engineering Economics	10	65	65	2.2	66	50	65
Engineering Mechanics (Statics and Dynamics)	13	66	59	2.6	57	69	62
Strength of Materials	8	56	48	1.6	48	50	50
Material Properties	8	38	49	1.4	45	62	58
Fluid Mechanics	8	88	72	1.5	72	88	69
Electricity and Magnetism	11	46	42	2.6	43	18	43
Thermodynamics	8	19	40	1.6	39	38	41

PM Subject

Advanced Engineering Mathematics	6	100	66	1.4	69	67	56
Engineering Probability and Statistics	5	50	46	1.1	44	40	52
Biology	3	67	49	0.8	48	67	50
Engineering Economics	6	50	47	1.3	49	33	46
Application of Engineering Mechanics	8	68	31	1.5	32	0	31
Engineering of Materials	7	29	35	1.4	36	29	32
Fluids	9	39	40	1.5	40	22	44
Electricity and Magnetism	7	64	41	1.3	44	29	32
Thermodynamics and Heat Transfer	9	28	41	1.7	42	44	36

* 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 above is based on number of questions correct not percentage of questions correct.

*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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 2/15/2008

Graduate of	Engineering				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Chemical	PM Exam:	FE-Chemical		
	*Institution	National		Comparator Groupings	

Examinees Taking	1	200	139	26	27
Examinees Passing	1	157	120	18	13
Examinees Passing %	100	78	86	69	48

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	74	66	3.6	69	60	56
Engineering Probability and Statistics	8	75	55	1.7	57	52	46
Chemistry	11	91	83	1.5	85	84	76
Computers	8	88	78	1.5	80	77	64
Ethics and Business Practices	8	88	79	1.4	81	80	72
Engineering Economics	10	100	68	2.2	70	65	59
Engineering Mechanics (Statics and Dynamics)	13	54	55	2.8	58	48	48
Strength of Materials	8	12	34	1.4	34	34	27
Material Properties	8	62	63	1.4	66	56	54
Fluid Mechanics	8	88	71	1.5	73	65	65
Electricity and Magnetism	11	91	52	2.7	54	50	41
Thermodynamics	8	62	61	1.9	64	53	52

PM Subject

Chemistry	6	83	56	1.5	60	51	42
Material / Energy Balances	9	67	59	2.1	63	53	51
Chemical Engineering Thermodynamics	6	100	63	1.6	67	58	50
Fluid Dynamics	6	100	50	1.5	53	41	38
Heat Transfer	6	83	72	1.3	75	67	63
Mass Transfer	6	67	50	1.5	53	50	39
Chemical Reaction Engineering	6	100	61	1.3	61	61	61
Process Design and Economic Optimization	6	67	64	1.3	67	62	53
Computer Usage and Chemical Engineering	3	67	69	0.9	71	60	62
Process Control	3	100	57	1.0	61	54	38
Safety, Health, and Environmental	3	100	74	0.7	78	71	58

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Graduate of	Engineering				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Civil	PM Exam:	FE-Civil		
	*Institution	National		Comparator Groupings	

Examinees Taking	9	1,482	660	290	385
Examinees Passing	4	551	324	90	109
Examinees Passing %	44	37	49	31	28

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	54	52	3.2	56	49	48
Engineering Probability and Statistics	8	38	41	1.6	45	40	38
Chemistry	11	54	52	2.1	57	52	49
Computers	8	71	66	1.6	70	65	63
Ethics and Business Practices	8	79	77	1.5	80	77	74
Engineering Economics	10	59	59	2.3	63	57	55
Engineering Mechanics (Statics and Dynamics)	13	55	61	2.5	65	57	58
Strength of Materials	8	44	48	1.5	51	46	46
Material Properties	8	38	46	1.6	49	47	43
Fluid Mechanics	8	54	58	1.7	60	56	57
Electricity and Magnetism	11	34	34	2.0	38	33	32
Thermodynamics	8	32	31	1.4	33	31	29

PM Subject

Surveying	7	32	34	1.4	37	34	32
Hydraulics and Hydrologic Systems	7	59	56	1.5	59	53	54
Soil Mechanics and Foundations	9	54	47	1.8	51	46	44
Environmental Engineering	7	49	50	1.6	55	49	45
Transportation	7	33	36	1.3	39	35	33
Structural Analysis	6	44	45	1.3	48	41	44
Structural Design	6	37	42	1.3	43	42	42
Construction Management	6	39	45	1.3	48	44	42
Materials	5	40	48	1.1	51	47	47

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Civil	PM Exam:	FE-General		
	*Institution	National		Comparator Groupings	

Examinees Taking	2	1,338	661	194	375
Examinees Passing	1	462	323	46	80
Examinees Passing %	50	35	49	24	21

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject							
Mathematics	19	76	58	3.6	63	56	53
Engineering Probability and Statistics	8	25	44	1.7	49	42	40
Chemistry	11	46	54	2.3	59	53	50
Computers	8	63	65	1.6	69	64	60
Ethics and Business Practices	8	82	74	1.6	76	75	72
Engineering Economics	10	50	60	2.3	64	57	59
Engineering Mechanics (Statics and Dynamics)	13	50	61	2.7	67	57	57
Strength of Materials	8	62	49	1.7	53	45	45
Material Properties	8	44	45	1.7	49	43	42
Fluid Mechanics	8	88	59	1.8	65	56	55
Electricity and Magnetism	11	50	40	2.4	46	35	34
Thermodynamics	8	50	34	1.6	38	33	30

PM Subject							
Advanced Engineering Mathematics	6	50	62	1.4	68	60	57
Engineering Probability and Statistics	5	40	41	1.2	46	37	36
Biology	3	34	39	0.8	42	39	37
Engineering Economics	6	34	46	1.5	51	42	41
Application of Engineering Mechanics	8	44	38	1.6	41	36	35
Engineering of Materials	7	22	34	1.3	35	34	31
Fluids	9	22	36	1.7	39	33	34
Electricity and Magnetism	7	36	38	1.1	39	37	36
Thermodynamics and Heat Transfer	9	22	34	1.6	37	33	32

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Graduate of	Engineering				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Electrical	PM Exam:	FE-Electrical		
	*Institution	National		Comparator Groupings	

Examinees Taking	5	840	379	146	243
Examinees Passing	3	440	232	72	111
Examinees Passing %	60	52	61	49	46

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	72	62	3.5	66	60	58
Engineering Probability and Statistics	8	73	46	1.8	50	43	42
Chemistry	11	58	55	2.2	58	55	53
Computers	8	80	74	1.8	78	73	69
Ethics and Business Practices	8	80	76	1.5	79	74	74
Engineering Economics	10	62	61	2.4	66	56	58
Engineering Mechanics (Statics and Dynamics)	13	60	53	2.7	57	51	48
Strength of Materials	8	28	32	1.3	34	32	30
Material Properties	8	52	45	1.7	48	46	42
Fluid Mechanics	8	40	46	1.8	48	44	43
Electricity and Magnetism	11	73	72	2.3	76	68	70
Thermodynamics	8	40	36	1.6	38	34	33

PM Subject

Circuits	10	64	56	2.0	58	54	54
Power	8	60	57	1.5	61	57	53
Electromagnetics	4	50	47	1.0	50	48	43
Control Systems	6	33	41	1.3	44	38	40
Communications	5	48	46	1.2	49	44	43
Signal Processing	5	40	48	1.2	51	46	47
Electronics	9	49	60	2.0	64	59	56
Digital Systems	7	46	46	1.8	51	43	43
Computer Systems	6	43	52	1.4	55	52	50

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Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Electrical	PM Exam:	FE-General		
	*Institution	National		Comparator Groupings	

Examinees Taking	2	591	246	92	170
Examinees Passing	0	210	122	26	49
Examinees Passing %	0	36	50	28	29

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject							
Mathematics	19	50	61	3.6	66	60	59
Engineering Probability and Statistics	8	44	46	1.7	54	43	42
Chemistry	11	46	52	2.3	57	54	50
Computers	8	88	70	1.8	75	66	66
Ethics and Business Practices	8	82	75	1.6	78	77	74
Engineering Economics	10	45	61	2.4	66	60	57
Engineering Mechanics (Statics and Dynamics)	13	46	50	2.9	57	47	45
Strength of Materials	8	18	34	1.4	37	31	33
Material Properties	8	25	43	1.7	48	47	38
Fluid Mechanics	8	38	45	1.8	51	47	39
Electricity and Magnetism	11	54	65	2.5	70	64	61
Thermodynamics	8	25	37	1.6	40	35	35

PM Subject							
Advanced Engineering Mathematics	6	75	66	1.4	73	65	64
Engineering Probability and Statistics	5	30	41	1.1	46	41	39
Biology	3	16	39	0.8	40	39	39
Engineering Economics	6	33	47	1.6	52	47	44
Application of Engineering Mechanics	8	25	33	1.4	35	37	32
Engineering of Materials	7	22	32	1.3	33	34	32
Fluids	9	22	29	1.6	32	26	27
Electricity and Magnetism	7	28	49	1.3	50	47	48
Thermodynamics and Heat Transfer	9	28	34	1.7	39	34	31

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Graduate of	Engineering				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Environmental	PM Exam:	FE-General		
	*Institution	National		Comparator Groupings	

Examinees Taking	2	93	54	16	11
Examinees Passing	2	49	36	6	4
Examinees Passing %	100	53	67	38	36

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	63	63	3.9	70	57	56
Engineering Probability and Statistics	8	56	52	1.8	56	53	46
Chemistry	11	68	73	2.1	78	65	74
Computers	8	62	73	1.5	76	72	71
Ethics and Business Practices	8	88	76	1.6	76	74	77
Engineering Economics	10	55	66	2.6	69	65	62
Engineering Mechanics (Statics and Dynamics)	13	74	62	2.7	66	59	62
Strength of Materials	8	44	43	1.7	47	35	36
Material Properties	8	82	53	2.0	58	46	46
Fluid Mechanics	8	88	71	1.6	71	73	75
Electricity and Magnetism	11	41	46	2.6	47	51	47
Thermodynamics	8	62	46	2.0	54	40	36

PM Subject

Advanced Engineering Mathematics	6	66	68	1.4	75	60	65
Engineering Probability and Statistics	5	70	52	1.3	58	49	44
Biology	3	67	48	0.8	54	42	39
Engineering Economics	6	42	54	1.6	59	48	53
Application of Engineering Mechanics	8	44	37	1.5	39	39	27
Engineering of Materials	7	64	33	1.4	34	32	33
Fluids	9	61	43	2.1	50	34	38
Electricity and Magnetism	7	36	40	1.3	44	32	35
Thermodynamics and Heat Transfer	9	56	44	1.8	46	46	29

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Graduate of	Engineering				
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Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Materials	PM Exam:	FE-General		
	*Institution	National	Comparator Groupings		

Examinees Taking	2	23	19	0	3
Examinees Passing	2	19	17	0	2
Examinees Passing %	100	83	89	0	67

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	76	71	3.5	75	0	49
Engineering Probability and Statistics	8	62	61	1.6	65	0	42
Chemistry	11	82	75	2.6	80	0	67
Computers	8	81	78	1.4	81	0	59
Ethics and Business Practices	8	75	88	0.9	89	0	83
Engineering Economics	10	65	71	1.8	76	0	57
Engineering Mechanics (Statics and Dynamics)	13	80	75	2.3	76	0	62
Strength of Materials	8	62	58	1.4	57	0	58
Material Properties	8	82	79	1.5	84	0	62
Fluid Mechanics	8	62	69	1.4	70	0	67
Electricity and Magnetism	11	60	59	2.5	60	0	58
Thermodynamics	8	38	53	1.9	54	0	50

PM Subject

Advanced Engineering Mathematics	6	75	72	1.4	80	0	44
Engineering Probability and Statistics	5	70	55	1.3	60	0	27
Biology	3	66	51	1.0	56	0	33
Engineering Economics	6	50	57	1.2	60	0	50
Application of Engineering Mechanics	8	69	53	1.8	53	0	46
Engineering of Materials	7	43	50	1.3	51	0	48
Fluids	9	44	41	1.7	41	0	41
Electricity and Magnetism	7	36	37	1.4	39	0	38
Thermodynamics and Heat Transfer	9	67	54	1.6	59	0	37

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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Board:	Kentucky	Institution:	Kentucky_ University of			
Board Code:	71	School Code:	7101			
Major:	Mechanical	PM Exam:	FE-General			
	*Institution	National			Comparator Groupings	

Examinees Taking	2	1,134	704	157	200
Examinees Passing	2	733	552	69	85
Examinees Passing %	100	65	78	44	42

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	74	65	3.6	70	58	57
Engineering Probability and Statistics	8	50	50	1.8	55	44	43
Chemistry	11	68	61	2.2	66	54	54
Computers	8	75	71	1.6	75	67	65
Ethics and Business Practices	8	94	78	1.4	79	81	76
Engineering Economics	10	80	67	2.3	71	60	61
Engineering Mechanics (Statics and Dynamics)	13	66	69	2.7	75	62	61
Strength of Materials	8	56	53	1.8	57	47	47
Material Properties	8	44	60	1.8	64	54	53
Fluid Mechanics	8	56	67	1.6	70	62	63
Electricity and Magnetism	11	54	56	2.7	62	45	47
Thermodynamics	8	44	48	2.0	53	42	42

PM Subject

Advanced Engineering Mathematics	6	66	72	1.3	78	67	64
Engineering Probability and Statistics	5	40	49	1.2	52	47	42
Biology	3	67	42	0.9	43	44	40
Engineering Economics	6	42	53	1.5	57	46	47
Application of Engineering Mechanics	8	31	45	1.6	49	41	41
Engineering of Materials	7	50	45	1.5	47	41	43
Fluids	9	50	44	1.9	48	37	38
Electricity and Magnetism	7	29	42	1.2	44	41	41
Thermodynamics and Heat Transfer	9	50	48	1.8	51	42	43

* 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 above is based on number of questions correct not percentage of questions correct.

*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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National Council of Examiners for Engineering and Surveying
 Fundamentals of Engineering Examination
 ABET - Accredited Programs

200710
 2/15/2008

Graduate of	Engineering				
Subject Matter Report by Major and PM Examination					
Board:	Kentucky	Institution:	Kentucky_ University of		
Board Code:	71	School Code:	7101		
Major:	Mining/Mineral	PM Exam:	FE-Civil		
	*Institution	National		Comparator Groupings	

Examinees Taking	1	4	2	0	0
Examinees Passing	0	1	1	0	0
Examinees Passing %	0	25	50	0	0

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject							
Mathematics	19	32	47	4.2	55	0	0
Engineering Probability and Statistics	8	38	34	1.3	38	0	0
Chemistry	11	55	52	1.7	64	0	0
Computers	8	62	66	1.7	68	0	0
Ethics and Business Practices	8	88	91	1.0	82	0	0
Engineering Economics	10	70	80	1.2	80	0	0
Engineering Mechanics (Statics and Dynamics)	13	54	58	4.1	77	0	0
Strength of Materials	8	50	44	0.6	44	0	0
Material Properties	8	50	50	0.8	56	0	0
Fluid Mechanics	8	50	66	1.5	69	0	0
Electricity and Magnetism	11	36	48	2.2	54	0	0
Thermodynamics	8	38	35	0.5	38	0	0

PM Subject							
Surveying	7	43	46	1.0	50	0	0
Hydraulics and Hydrologic Systems	7	57	46	2.5	72	0	0
Soil Mechanics and Foundations	9	22	42	2.4	50	0	0
Environmental Engineering	7	43	71	1.6	57	0	0
Transportation	7	43	39	1.3	43	0	0
Structural Analysis	6	33	38	1.0	25	0	0
Structural Design	6	50	38	1.0	50	0	0
Construction Management	6	50	42	1.3	34	0	0
Materials	5	40	30	1.3	50	0	0

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*** Carnegie 1 - Research Extensive, Carnegie 2 - Research Intensive, Carnegie 3 - Masters I and II combined

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National Council of Examiners for Engineering and Surveying
Fundamentals of Engineering Examination
ABET - Accredited Programs

200710
2/15/2008

Graduate of	Engineering						
Subject Matter Report by Major and PM Examination							
Board:	Kentucky	Institution:	Kentucky_ University of				
Board Code:	71	School Code:	7101				
Major:	Mining/Mineral	PM Exam:	FE-General				
	*Institution	National			Comparator Groupings		

Examinees Taking	1	23	20	2	0
Examinees Passing	0	17	14	2	0
Examinees Passing %	0	74	70	100	0

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
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AM Subject

Mathematics	19	53	65	3.6	64	89	0
Engineering Probability and Statistics	8	62	52	1.8	48	100	0
Chemistry	11	55	69	2.3	66	96	0
Computers	8	88	79	1.6	76	100	0
Ethics and Business Practices	8	75	84	0.9	83	82	0
Engineering Economics	10	50	77	2.3	78	90	0
Engineering Mechanics (Statics and Dynamics)	13	62	70	2.3	68	80	0
Strength of Materials	8	50	50	1.5	51	44	0
Material Properties	8	25	56	1.7	52	75	0
Fluid Mechanics	8	75	76	1.4	76	75	0
Electricity and Magnetism	11	36	59	2.2	58	68	0
Thermodynamics	8	25	46	1.8	44	50	0

PM Subject

Advanced Engineering Mathematics	6	50	72	1.3	72	92	0
Engineering Probability and Statistics	5	20	53	1.4	53	50	0
Biology	3	67	39	0.7	38	50	0
Engineering Economics	6	33	57	1.6	56	75	0
Application of Engineering Mechanics	8	25	43	1.6	41	44	0
Engineering of Materials	7	29	45	1.6	41	78	0
Fluids	9	11	43	2.0	39	67	0
Electricity and Magnetism	7	43	47	1.3	44	78	0
Thermodynamics and Heat Transfer	9	33	41	1.5	38	56	0

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