



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

200810

1/23/2009

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	256	150	28	50
Examinees Passing	1	192	129	18	27
Examinees Passing %	100	75	86	64	54

	# 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	79	75	3.1	78	74	67
Engineering Probability and Statistics	8	50	72	1.6	74	71	64
Chemistry	11	91	79	1.9	83	77	70
Computers	8	88	73	1.4	77	70	63
Ethics and Business Practices	8	100	81	1.4	86	79	70
Engineering Economics	10	60	56	2.3	60	54	44
Engineering Mechanics (Statics and Dynamics)	13	38	51	2.7	54	46	44
Strength of Materials	8	0	33	1.3	34	34	31
Material Properties	8	25	42	1.6	45	37	36
Fluid Mechanics	8	50	58	1.5	61	53	52
Electricity and Magnetism	11	45	45	2.4	48	40	42
Thermodynamics	8	75	69	1.7	72	65	64

PM Subject

Chemistry	6	50	68	1.5	71	72	57
Material / Energy Balances	9	44	55	1.8	58	55	46
Chemical Engineering Thermodynamics	6	67	61	1.5	65	54	50
Fluid Dynamics	6	83	62	1.5	62	62	58
Heat Transfer	6	33	67	1.5	69	61	64
Mass Transfer	6	0	51	1.4	55	44	43
Chemical Reaction Engineering	6	67	60	1.5	64	54	57
Process Design and Economic Optimization	6	50	65	1.4	68	66	58
Computer Usage and Chemical Engineering	3	67	67	0.8	71	63	65
Process Control	3	33	66	1.0	70	57	59
Safety, Health, and Environmental	3	33	47	0.9	51	32	37

* 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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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-General			
	*Institution	National	Comparator Groupings			

Examinees Taking	2	211	125	22	46
Examinees Passing	2	117	86	7	10
Examinees Passing %	100	55	69	32	22

	# 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	82	74	3.3	77	71	66
Engineering Probability and Statistics	8	62	67	1.6	71	66	55
Chemistry	11	68	75	2.0	81	68	64
Computers	8	68	70	1.5	73	62	64
Ethics and Business Practices	8	75	80	1.6	85	72	71
Engineering Economics	10	75	55	2.2	60	46	42
Engineering Mechanics (Statics and Dynamics)	13	62	49	3.0	54	38	34
Strength of Materials	8	50	35	1.5	37	35	25
Material Properties	8	38	41	1.7	45	35	33
Fluid Mechanics	8	56	54	1.8	60	47	37
Electricity and Magnetism	11	40	42	2.2	45	32	35
Thermodynamics	8	37	62	1.9	68	55	50

PM Subject

Advanced Engineering Mathematics	6	84	68	1.4	69	69	63
Engineering Probability and Statistics	5	50	53	1.1	57	49	44
Biology	3	100	77	0.8	81	74	67
Engineering Economics	6	83	57	1.5	59	55	48
Application of Engineering Mechanics	8	50	45	1.6	48	42	38
Engineering of Materials	7	57	38	1.2	40	34	30
Fluids	9	56	51	1.9	55	41	39
Electricity and Magnetism	7	43	48	1.6	52	40	39
Thermodynamics and Heat Transfer	9	50	48	1.9	53	40	36

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

Examinees Taking	6	1,617	696	333	430
Examinees Passing	2	613	332	108	118
Examinees Passing %	33	38	48	32	27

	# 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	59	61	3.3	64	58	59
Engineering Probability and Statistics	8	69	60	1.5	64	58	57
Chemistry	11	56	47	2.2	52	46	43
Computers	8	58	62	1.4	64	59	60
Ethics and Business Practices	8	88	80	1.5	83	81	77
Engineering Economics	10	58	49	2.0	54	47	46
Engineering Mechanics (Statics and Dynamics)	13	59	53	2.7	58	50	50
Strength of Materials	8	50	46	1.5	49	44	45
Material Properties	8	36	35	1.5	37	34	32
Fluid Mechanics	8	50	50	1.6	53	49	47
Electricity and Magnetism	11	27	35	1.8	36	34	33
Thermodynamics	8	44	41	1.6	42	42	39

PM Subject							
Surveying	7	60	52	1.5	54	53	49
Hydraulics and Hydrologic Systems	7	38	38	1.3	38	39	37
Soil Mechanics and Foundations	9	30	44	1.8	46	42	42
Environmental Engineering	7	43	45	1.5	48	46	40
Transportation	7	71	59	1.4	62	59	54
Structural Analysis	6	47	43	1.3	44	41	42
Structural Design	6	42	40	1.2	41	39	40
Construction Management	6	61	52	1.3	53	53	50
Materials	5	43	54	1.2	57	54	50

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Board Code:	71	School Code:	7101				
Major:	Civil	PM Exam:	FE-Environmental				
	*Institution		National	Comparator Groupings			

Examinees Taking	1	60	38	9	11
Examinees Passing	0	32	26	4	2
Examinees Passing %	0	53	68	44	18

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
AM Subject							
Mathematics2	19	58	66	3.7	72	64	49
Engineering Probability and Statistics	8	50	66	1.7	71	63	50
Chemistry	11	55	62	2.7	65	66	53
Computers	8	88	65	1.3	66	69	58
Ethics and Business Practices	8	88	85	1.3	87	82	79
Engineering Economics	10	10	50	2.1	54	50	35
Engineering Mechanics (Statics and Dynamics)	13	23	53	2.6	57	52	43
Strength of Materials	8	38	46	1.6	48	40	44
Material Properties	8	38	41	1.6	44	42	31
Fluid Mechanics	8	38	57	1.8	62	53	43
Electricity and Magnetism	11	36	36	2.1	37	30	34
Thermodynamics	8	50	52	1.5	53	55	48

	# Exam Questions	Institution AVG % Correct	National AVG % Correct	National Standard Deviation **	Carnegie 1 AVG % Correct ***	Carnegie 2 AVG % Correct ***	Carnegie 3 AVG % Correct ***
PM Subject							
Water Resources	15	67	55	2.8	63	50	39
Water and Wastewater Engineering	18	50	54	3.5	60	53	37
Air Quality Engineering	9	56	61	1.9	67	63	44
Solid and Hazardous Waste Engineering	9	33	58	1.9	64	47	45
Environmental Science and Management	9	22	55	1.9	60	47	45

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

Examinees Taking	4	1,328	588	210	409
Examinees Passing	3	497	326	65	82
Examinees Passing %	75	37	55	31	20

	# 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	68	66	3.5	72	64	61
Engineering Probability and Statistics	8	44	62	1.7	68	60	57
Chemistry	11	57	49	2.3	55	46	45
Computers	8	62	64	1.5	69	62	60
Ethics and Business Practices	8	75	75	1.7	79	77	73
Engineering Economics	10	48	49	2.1	55	48	45
Engineering Mechanics (Statics and Dynamics)	13	54	54	2.8	60	49	49
Strength of Materials	8	53	46	1.5	50	43	43
Material Properties	8	22	34	1.5	37	32	31
Fluid Mechanics	8	60	49	1.6	54	46	45
Electricity and Magnetism	11	29	37	2.0	41	35	34
Thermodynamics	8	34	42	1.7	49	40	37

PM Subject

Advanced Engineering Mathematics	6	67	59	1.4	65	58	54
Engineering Probability and Statistics	5	55	46	1.1	51	46	42
Biology	3	58	57	1.0	61	57	56
Engineering Economics	6	58	53	1.4	56	53	50
Application of Engineering Mechanics	8	53	48	1.6	52	45	45
Engineering of Materials	7	40	35	1.2	37	35	32
Fluids	9	64	49	1.8	53	47	44
Electricity and Magnetism	7	36	41	1.4	44	40	38
Thermodynamics and Heat Transfer	9	33	38	1.6	41	37	35

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

Examinees Taking	6	875	397	124	241
Examinees Passing	3	475	267	57	111
Examinees Passing %	50	54	67	46	46

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AM Subject

Mathematics	19	68	70	3.3	74	67	68
Engineering Probability and Statistics	8	73	64	1.6	69	61	59
Chemistry	11	55	54	2.4	59	51	51
Computers	8	84	80	1.5	84	76	76
Ethics and Business Practices	8	90	80	1.5	84	83	77
Engineering Economics	10	53	51	2.1	54	48	49
Engineering Mechanics (Statics and Dynamics)	13	51	45	2.7	48	41	43
Strength of Materials	8	33	32	1.3	34	29	31
Material Properties	8	44	35	1.5	38	32	34
Fluid Mechanics	8	29	40	1.6	43	37	36
Electricity and Magnetism	11	65	62	2.3	66	56	60
Thermodynamics	8	63	46	1.7	50	44	44

PM Subject

Circuits	10	47	46	1.9	49	39	45
Power	8	56	53	1.5	56	52	49
Electromagnetics	4	50	61	1.1	67	55	56
Control Systems	6	30	32	1.2	33	27	32
Communications	5	50	37	1.2	41	31	35
Signal Processing	5	47	41	1.3	44	38	40
Electronics	9	46	48	1.9	53	42	44
Digital Systems	7	43	47	1.8	54	39	41
Computer Systems	6	61	51	1.4	56	51	46

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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	1	634	258	119	192
Examinees Passing	1	253	137	37	58
Examinees Passing %	100	40	53	31	30

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AM Subject

Mathematics	19	95	67	3.4	73	65	64
Engineering Probability and Statistics	8	100	61	1.6	66	59	57
Chemistry	11	64	51	2.3	57	51	46
Computers	8	100	75	1.6	81	70	69
Ethics and Business Practices	8	88	80	1.5	83	82	79
Engineering Economics	10	60	51	2.1	57	49	47
Engineering Mechanics (Statics and Dynamics)	13	54	43	2.7	47	41	39
Strength of Materials	8	25	33	1.4	34	30	33
Material Properties	8	25	33	1.6	37	30	30
Fluid Mechanics	8	62	41	1.6	44	37	37
Electricity and Magnetism	11	64	55	2.2	60	51	51
Thermodynamics	8	75	44	1.8	49	43	39

PM Subject

Advanced Engineering Mathematics	6	100	61	1.4	66	56	58
Engineering Probability and Statistics	5	80	45	1.1	52	39	41
Biology	3	100	64	1.0	68	66	63
Engineering Economics	6	50	54	1.4	59	50	51
Application of Engineering Mechanics	8	50	40	1.5	44	39	38
Engineering of Materials	7	14	31	1.2	33	31	28
Fluids	9	44	39	1.6	42	37	35
Electricity and Magnetism	7	71	61	1.5	66	60	57
Thermodynamics and Heat Transfer	9	56	38	1.6	41	37	35

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Board Code:	71	School Code:	7101				
Major:	Environmental	PM Exam:	FE-General				
	*Institution	National	Comparator Groupings				

Examinees Taking	1	76	42	15	9
Examinees Passing	1	45	30	8	3
Examinees Passing %	100	59	71	53	33

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AM Subject

Mathematics	19	84	70	3.6	77	64	65
Engineering Probability and Statistics	8	88	70	1.8	74	67	71
Chemistry	11	64	66	2.6	77	53	52
Computers	8	50	72	1.4	75	70	65
Ethics and Business Practices	8	88	81	1.3	82	84	81
Engineering Economics	10	80	59	2.0	64	58	46
Engineering Mechanics (Statics and Dynamics)	13	69	55	3.1	61	44	49
Strength of Materials	8	62	40	1.6	41	34	43
Material Properties	8	12	41	1.9	40	41	42
Fluid Mechanics	8	62	56	1.7	60	52	57
Electricity and Magnetism	11	55	45	2.7	52	38	31
Thermodynamics	8	50	55	2.0	54	62	49

PM Subject

Advanced Engineering Mathematics	6	83	65	1.5	71	57	61
Engineering Probability and Statistics	5	60	52	1.1	56	41	51
Biology	3	67	76	0.8	85	71	67
Engineering Economics	6	67	63	1.4	66	64	52
Application of Engineering Mechanics	8	38	48	1.6	47	46	53
Engineering of Materials	7	29	35	1.2	35	30	34
Fluids	9	89	54	1.9	60	50	44
Electricity and Magnetism	7	29	46	1.6	52	37	32
Thermodynamics and Heat Transfer	9	44	45	1.8	49	40	36

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Board Code:	71	School Code:	7101				
Major:	Materials	PM Exam:	FE-General				
	*Institution	National	Comparator Groupings				

Examinees Taking	1	26	21	0	2
Examinees Passing	1	23	19	0	1
Examinees Passing %	100	88	90	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	84	78	3.1	80	0	45
Engineering Probability and Statistics	8	88	74	1.6	73	0	62
Chemistry	11	100	83	1.5	85	0	59
Computers	8	88	75	1.5	75	0	56
Ethics and Business Practices	8	88	86	1.5	83	0	94
Engineering Economics	10	50	58	2.2	59	0	50
Engineering Mechanics (Statics and Dynamics)	13	46	64	2.9	63	0	58
Strength of Materials	8	50	49	1.5	48	0	44
Material Properties	8	88	66	1.5	65	0	62
Fluid Mechanics	8	75	57	1.6	57	0	50
Electricity and Magnetism	11	64	55	2.5	57	0	27
Thermodynamics	8	50	62	2.0	62	0	81

PM Subject

Advanced Engineering Mathematics	6	67	67	1.2	69	0	33
Engineering Probability and Statistics	5	40	56	0.9	58	0	20
Biology	3	100	80	0.9	78	0	67
Engineering Economics	6	50	60	1.2	63	0	58
Application of Engineering Mechanics	8	62	61	1.8	63	0	32
Engineering of Materials	7	43	50	1.4	54	0	22
Fluids	9	67	49	1.7	48	0	44
Electricity and Magnetism	7	43	61	1.5	58	0	64
Thermodynamics and Heat Transfer	9	56	60	1.8	61	0	50

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

Examinees Taking	3	1,169	674	172	227
Examinees Passing	3	766	524	99	98
Examinees Passing %	100	66	78	58	43

	# 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	82	72	3.4	76	68	65
Engineering Probability and Statistics	8	66	65	1.6	69	62	58
Chemistry	11	55	59	2.5	63	54	51
Computers	8	75	72	1.5	75	69	66
Ethics and Business Practices	8	75	82	1.4	84	81	77
Engineering Economics	10	50	55	2.1	59	51	49
Engineering Mechanics (Statics and Dynamics)	13	79	62	2.9	67	57	53
Strength of Materials	8	62	48	1.7	51	47	42
Material Properties	8	46	45	1.6	47	45	40
Fluid Mechanics	8	54	56	1.7	59	53	49
Electricity and Magnetism	11	52	46	2.3	49	44	42
Thermodynamics	8	75	56	1.9	59	52	51

PM Subject

Advanced Engineering Mathematics	6	89	67	1.4	72	63	59
Engineering Probability and Statistics	5	67	51	1.1	54	49	46
Biology	3	89	71	0.9	74	69	64
Engineering Economics	6	56	58	1.4	61	56	52
Application of Engineering Mechanics	8	54	57	1.6	61	55	50
Engineering of Materials	7	34	39	1.3	42	38	35
Fluids	9	67	53	1.8	56	50	47
Electricity and Magnetism	7	67	54	1.6	59	51	47
Thermodynamics and Heat Transfer	9	56	50	1.7	53	46	46

* 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

TERMS AND CONDITIONS OF DATA USE

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

200810
 1/23/2009

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

Examinees Taking	2	456	281	60	80
Examinees Passing	0	325	212	41	47
Examinees Passing %	0	71	75	68	59

	# 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	71	3.3	74	68	65
Engineering Probability and Statistics	8	50	65	1.6	67	62	61
Chemistry	11	22	62	2.5	65	56	55
Computers	8	82	74	1.4	76	72	70
Ethics and Business Practices	8	82	84	1.2	85	87	80
Engineering Economics	10	55	55	2.1	57	53	52
Engineering Mechanics (Statics and Dynamics)	13	54	68	2.7	70	65	63
Strength of Materials	8	44	54	1.7	54	53	51
Material Properties	8	31	50	1.7	52	47	47
Fluid Mechanics	8	38	60	1.7	61	59	56
Electricity and Magnetism	11	41	48	2.3	49	45	44
Thermodynamics	8	50	59	1.7	61	59	56

PM Subject

Mechanical Design and Analysis	9	38	51	1.9	52	50	47
Kinematics, Dynamics, and Vibrations	9	44	47	2.0	48	42	45
Materials and Processing	6	34	60	1.4	60	61	56
Measurements, Instrumentation, and Controls	6	33	52	1.5	55	46	46
Thermodynamics and Energy Conversion Processes	9	33	58	2.0	59	55	53
Fluid Mechanics and Fluid Machinery	9	50	59	1.7	60	58	54
Heat Transfer	6	16	47	1.4	47	45	42
Refrigeration and HVAC	6	16	41	1.4	41	38	39

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National Council of Examiners for Engineering and Surveying
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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:	Mining/Mineral	PM Exam:	FE-General			
	*Institution	National	Comparator Groupings			

Examinees Taking	3	15	14	0	0
Examinees Passing	2	9	8	0	0
Examinees Passing %	67	60	57	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	54	65	2.8	65	0	0
Engineering Probability and Statistics	8	54	67	1.4	67	0	0
Chemistry	11	55	59	2.2	59	0	0
Computers	8	71	72	1.4	73	0	0
Ethics and Business Practices	8	79	87	1.2	86	0	0
Engineering Economics	10	73	66	2.1	66	0	0
Engineering Mechanics (Statics and Dynamics)	13	49	55	2.5	55	0	0
Strength of Materials	8	54	44	1.2	44	0	0
Material Properties	8	37	39	1.6	40	0	0
Fluid Mechanics	8	50	50	1.3	51	0	0
Electricity and Magnetism	11	45	41	2.0	41	0	0
Thermodynamics	8	50	45	1.7	46	0	0

PM Subject

Advanced Engineering Mathematics	6	61	60	1.4	58	0	0
Engineering Probability and Statistics	5	60	53	0.9	54	0	0
Biology	3	78	82	1.0	88	0	0
Engineering Economics	6	83	73	1.5	74	0	0
Application of Engineering Mechanics	8	50	47	1.9	47	0	0
Engineering of Materials	7	34	35	1.1	35	0	0
Fluids	9	41	49	1.6	48	0	0
Electricity and Magnetism	7	34	45	1.5	42	0	0
Thermodynamics and Heat Transfer	9	40	46	1.2	45	0	0

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