11/5/20

Notes: Find your User ID on the Blackboard Grade Center. Ensure all raw scores are correct.
P2 (not yet logged). P2, P3, P5, P6 are binary (1,0) --> Performance (not in Mtotal). Each roughly 1% of Mtotal.
A6 now included.

Assign. A0 A1 A2 A4 A5 A6 A7 LP Perl Total Weight 2% 5% 10% 5% 12% 14% 17% 20% 15% 100%

Class	A0	MA0	A1	MA1	P2	A2	MA2	P3	P4	A4	MA4	P5	A5	MA5	P6	A6	MA6	A7	MA7	LP	MLP	Perf	MPerf	Mtotal
Possible	12 30		24				105			42				21										
Min	0 18				0	0		18		0			0									-3.3		
Max	12		30			24				101			42			63								1.0
AVG	11	0.0	26	0.0		20	0.0			83	0.0		33	0.0		51	0.0							0.0
σ	1	1.0	3	1.0		4	1.0			12	1.0		6	1.0		13	1.0							0.7

User ID	A0	MA0	A1	MA1	P2	A2	MA2	Р3	P4	A4	MA4	P5	A5	MA5	P6	A6	MA6	A7	MA7	LP MLP	Perf MPerf Mtotal
1	7.5	-2.4	22	-1.6		14	-1.5	1	1	75.5	-0.6	1	13	-3.2	1	10.5	-3.0				-2.3
3	10.9 11	0.0	27.5 27.5	0.6 0.6		17 24	-0.8 1.0	1	1	86.5 82.5	0.2 -0.1	1	32 35.5	-0.2 0.4	1	55 50	0.3 -0.1				0.0
4	12	0.7	26	0.0		17.5	-0.6	1	1	74	-0.8	1	42	1.4	1	56	0.4				0.3
5	12	0.7	28.5	1.0		23.5	0.9	1	1	96.5	1.1	1	36.5	0.5	1	57.5	0.5				0.7
6	10.5 10.5	-0.3	27.5	0.6		18 23.5	-0.5	1	0	72 88	-0.9 0.4	1	38 37.5	0.8	1	50 60	-0.1				0.0
8	11.5	-0.3 0.4	24.5 24	-0.6 -0.8		23.3	0.9	1	1	86	0.4	1	40	0.7 1.1	1	61	0.7 0.7				0.5
9	12	0.7	26.5	0.2		24	1.0	1	1	84	0.0	1	36.5	0.5	1	61	0.7				0.6
10	11	0.0	29.5	1.4		19	-0.3	1	1	84	0.0	1	38	0.8	1	44	-0.5				0.1
11 12	12 11.5	0.7 0.4	24.5 20.5	-0.6 -2.1		22 17	0.5 -0.8	1 1	1 1	18 70.5	-5.3 -1.1	1	33 35	0.0	1	62 25	0.8 -2.0				-0.2 -1.0
13	11.5	0.4	26	0.0		20.5	0.1	1	1	80	-0.3	1	34	0.3	1	55	0.3				0.1
14	10.5	-0.3	23.5	-1.0		17	-0.8	1	1	97	1.1	1	31	-0.3	1	57	0.4				-0.1
15	11.5	0.4	28	0.8		22	0.5	1	1	69.5	-1.1	1	24	-1.5	1	59	0.6				-0.1
16 17	0 11	-7.7 0.0	27 28	0.4		19.5 19.5	-0.1 -0.1	1 1	1 1	85 81	0.1 -0.2	1	29 36	-0.7 0.4	1	59 55	0.6 0.3				-0.3 0.2
18	12	0.7	22	-1.6		16	-1.0	1	1	60.5	-1.9	1	32	-0.2	1	53	0.1				-0.5
19	12	0.7	27	0.4		20	0.0	0	1	91	0.6	1	38.5	0.8	1	59	0.6				0.5
20	10.5	-0.3	20.5	-2.1		20.5	0.1	1	1	86	0.2	1	39	0.9	1	49	-0.2				0.0
21 22	10.5 10.5	-0.3 -0.3	24 27	-0.8 0.4		20.5 13.5	0.1 -1.7	1 1	1 1	78.5 86	-0.4 0.2	1	31 36	-0.3 0.4	1	53 60	0.1 0.7				-0.2 0.0
23	11	0.0	28	0.8		22	0.5	1	1	78.5	-0.4	1	29	-0.7	1	35	-1.2				-0.4
24	11.5	0.4	28	0.8		23.5	0.9	1	1	96	1.0	1	37.5	0.7	1	60	0.7				0.8
25 26	9.5 11	-1.0 0.0	24 26	-0.8		23 23	0.8	1	1	96	1.0	1	39 36	0.9	1	58 61	0.5				0.5 0.5
26 27	11.5	0.0	26 27.5	0.0		23 14	0.8 -1.5	1 1	1	90.5 86	0.6 0.2	1	31.5	0.4 -0.3	1	61 33	-1.4				-0.7
28	10	-0.7	23.5	-1.0		19	-0.3	1	1	86	0.2	1	30	-0.5	1	57	0.4				-0.2
29	10.5	-0.3	25.5	-0.2		20	0.0	1	1	84	0.0	1	30.5	-0.4	1	53	0.1				-0.1
30 31	10.5	-0.3	21.5 21.5	-1.8 -1.8		23	0.8	1	1	82.5 89	-0.1 0.4	1	30 37.5	-0.5 0.7	1	9 47	-3.1 -0.3				-1.1 0.0
32	10.5	-0.7	27.3	0.4		20	0.0	1	1	79.5	-0.3	1	37.3	0.9	1	43	-0.5				0.0
33	12	0.7	26	0.0		22	0.5	0	1	21	-5.1	1	34	0.1	1	62.5	0.8				-0.1
34	11	0.0	23	-1.2		15	-1.3	1	1	84.5	0.1	1	29	-0.7	1	43	-0.6				-0.7
35 36	11.5	-0.3	26.5 26.5	0.2		22 16.5	-0.5	1	1	92 96	0.7 1.0	1	37 32.5	-0.1	1	56 41.5	-0.7				0.5 -0.3
37	9.5	-1.0	27	0.4		22.5	0.7	1	1	86	0.2	1	37.5	0.7	1	53	0.1				0.4
38	10.5	-0.3	26	0.0		15.5	-1.2	1	1	86	0.2	1	29.5	-0.6	1	56	0.4				-0.3
39	11.5	0.4	27	0.4		23.5	0.9	1	1	92	0.7	1	37.5	0.7	1	52	0.1				0.5
40 41	11.5	-7.7 0.4	23	-1.2 0.8		13 22	-1.8 0.5	1	1	71.5 96	-1.0 1.0	1	16 39.5	-2.7 1.0	1	0 57	-3.8 0.4				-2.7 0.7
42	11.5	0.4	25.5	-0.2		19.5	-0.1	1	0	33	-4.1	1	6.5	-4.2	1	0	-3.8				-2.6
43	12	0.7	29	1.2		23	0.8	1	1	88	0.4	1	38	0.8	1	56	0.4				0.7
44	11.5	0.4	28	0.8		22	0.5	1	1	86.5	0.2	1	35.5	0.4	1	59	0.6				0.5
45 46	10.5	-0.3 0.0	27	1.0		14.5 21	-1.4 0.3	1	1	87.5 72.5	-0.9	1	29.5 34	-0.6 0.1	1	58 62	0.5				-0.2 0.3
47	10.5	-0.3	28	0.8		21.5	0.4	1	1	83.5	0.0	1	38.5	0.8	1	54	0.2				0.4
48	11.5	0.4	27	0.4		16	-1.0	1	1	77.5	-0.5	1	37	0.6	1	59	0.6				0.1
49 50	12 11	0.7	29.5 26	1.4 0.0		23 20	0.8	1 1	1	94.5 87.5	0.9	1	36 31	0.4 -0.3	1	57 52.5	0.4				0.7
51	10.3	-0.5	21	-2.0		22	0.5	1	1	85	0.3	1	36	0.4	1	31	-1.5				-0.4
52	10.5	-0.3	27	0.4		13	-1.8	1	1	79.5	-0.3	1	37.5	0.7	1	45	-0.5				-0.3
53	11	0.0	28	0.8		20	0.0	1	1	93.5	0.8	1	38.5	0.8	1	57 61	0.4				0.5
54 55	12 10.5	0.7 -0.3	27.5 26	0.6		22 21	0.5	1 1	1	99.5 76.5	1.3 -0.6	1	39.5 36	1.0 0.4	1	61 59.5	0.7 0.6				0.8
56	12	0.7	26	0.0		0	-5.2	1	1	55.5	-2.3	1	3.5	-4.7	1	10	-3.1				-3.3
57	12	0.7	22.5	-1.4		16	-1.0	1	1	92	0.7	1	33.5	0.0	1	57	0.4				-0.1
58 59	12 11	0.7	27.5 27	0.6		21 23	0.3	1 1	1 1	85 88.5	0.1	1	34.5 29.5	0.2 -0.6	1	51 46	0.0				0.2
60	11	0.0	28	0.4		23	0.0	0	1	88.5	-0.3	1	30.5	-0.6 -0.4	1	46 46	-0.4 -0.4				-0.2
61	11.5	0.4	28	0.8		20	0.0	1	1	89	0.4	1	33.5	0.0	1	44.5	-0.5				0.0
62	10.5	-0.3	25	-0.4		19	-0.3	0	1	72.5	-0.9	1	34	0.1	1	49	-0.2				-0.2
63 64	11.5 11	0.4	25.5 28.5	-0.2 1.0		22 20.5	0.5	1	1	89 91.5	0.4 0.7	1	31.5 35	-0.3 0.3	1	55 56.5	0.3 0.4				0.2
65	12	0.7	28.5	1.0		20.3	0.1	1	1	74.5	-0.7	1	32	-0.2	1	61.5	0.4				0.4
66	11	0.0	27.5	0.6		21.5	0.4	1	1	84.5	0.1	1	27.5	-0.9	1	58.5	0.5				0.1
67	10.5	-0.3	28.5	1.0		21	0.3	1	1	71.5	-1.0	1	34	0.1	1	43	-0.6				-0.1
68 69	11.5 11.5	0.4	26.5 27	0.2		20 23	0.0	1 1	1	94 88	0.9	1	32.5 38.5	-0.1 0.8	1	57 48	0.4				0.2
70	10.5	-0.3	27	0.4		23	0.8	1	1	71.5	-1.0	1	38.5	-1.9	1	39.5	-0.2 -0.9				-0.7
71	11.5	0.4	29	1.2		18.5	-0.4	1	1	90.5	0.6	1	41	1.2	1	59	0.6				0.6
72		0.4	26	0.0		24	1.0	1	1	100.5	1.4	1	34.5	0.2	1	62	0.8				0.7
73	11.5	0.4	27.5	0.6		23	8.0	1	1	84	0.0	1	26.5	-1.1	1	62.5	0.8				0.2

A0 Hello World
A1 Excel basics
A2 Blocks
A4 Meas. Signals
A5 LPF
A6 Op-Amps
A7 Spectral Analysis
LP Lab Practical

For each assignment (i) and each jStude (j): $M_{ij} = \frac{x_{ij} - \bar{x}_i}{\sigma_i}$ Mtotal includes the assignment weighting factors (w_i): $M_{total} = \frac{\Sigma_t(w_i M_{ij})}{\Sigma_i w_i}$

User ID		MA0	A1	MA1	P2		MA2	Р3	P4	_	MA4	P5		MA5	P6		MA6	A7 MA	LP MLP	Perf MPerf	
74 75	11 11.5	0.0 0.4	19 22	-2.7 -1.6		21 13	0.3 -1.8	1	1	68.5 80.5	-1.2 -0.2	1	24 27	-1.5 -1.0	1	0 50	-3.8 -0.1				-1.8 -0.8
76	10.5	-0.3	27	0.4		19	-0.3	1	1	82.5	-0.1	1	29.5	-0.6	1	43	-0.6				-0.4
77 78	11 10	0.0 -0.7	22.5 26.5	-1.4 0.2		22.5 21	0.7 0.3	1	1	87.5 81	0.3 -0.2	1	36 32	0.4 -0.2	1	53 49.5	0.1 -0.1				0.2 -0.1
79	12	0.7	27.5	0.6		23.5	0.9	1	1	74.5	-0.7	1	37.5	0.7	1	61	0.7				0.6
80 81	11 11.5	0.0	27 29	1.2		22.5 24	0.7 1.0	1	1	88 88.5	0.4	1	38.5 40.5	0.8 1.1	1	40 62	-0.8 0.8				0.2
82	12	0.7	27.5	0.6		21	0.3	1	0	73	-0.8	1	33	0.0	1	54	0.2				0.1
83 84	8.5 11.5	-1.7 0.4	29 24	1.2 -0.8		20.5 21.5	0.1	1	1	89.5 88.5	0.5 0.4	1	30.5 35	-0.4 0.3	1	49 57	-0.2 0.4				0.0
85	12	0.7	24.5	-0.6		20	0.0	1	1	88	0.4	1	37	0.6	1	46.5	-0.3				0.1
86 87	11.5 12	0.4 0.7	24.5 29	-0.6 1.2		24 23	1.0 0.8	1	1	75.5 83.5	-0.6 0.0	1	34.5 35	0.2	1	55.5 54	0.3				0.3
88	11.8	0.6	29	1.2		22	0.5	1	1	92	0.7	1	31.5	-0.3	1	52	0.1				0.3
89 90	9.5 9	-1.0 -1.4	20.5 28.5	-2.1 1.0		20.5 20	0.1	1	1	67 89.5	-1.3 0.5	1	22 32.5	-1.8 -0.1	1	47 54	-0.3 0.2				-0.9 0.1
91	11.5	0.4	23	-1.2		19	-0.3	1	1	87.5	0.3	1	31.5	-0.3	1	56.5	0.4				-0.1
92 93	11 11	0.0	27 25	0.4 -0.4		20 20	0.0	1	1	90.5 92.5	0.6 0.7	1	32 37	-0.2 0.6	1	49 61.5	-0.2 0.8				0.0
94	9.5	-1.0	22.5	-1.4		24	1.0	1	1	90.5	0.6	1	34	0.1	1	57	0.4				0.3
95 96	10.5	-0.7 -0.3	22.5 18	-1.4 -3.1		9 19.5	-2.8 -0.1	1	1	43 71	-3.3 -1.0	1	30 31	-0.5 -0.3	1	31 54	-1.5 0.2				-1.7 -0.5
97	11.5	0.4	27.5	0.6		21.5	0.4	1	1	87	0.3	1	39	0.9	1	56	0.4				0.5
98 99	12 11.5	0.7 0.4	27 27.5	0.4 0.6		21 23	0.3	1	0	87.5 71.5	0.3 -1.0	1	40 38	1.1 0.8	1	56 61.5	0.4 0.8				0.5 0.6
100	11.8	0.6	28	0.8		22	0.5	1	1	83	0.0	1	0	-5.2	0	0	-3.8				-2.2
101 102	12 11.5	0.7 0.4	28.5 25	1.0 -0.4		23 23.5	0.8 0.9	1	1	64.5 84	-1.5 0.0	1	35 38	0.3	1	39.5 61	-0.9 0.7				0.0
103	10.5	-0.3	24	-0.8		23.5	0.9		1	81.5	-0.2	1	28.5	-0.7	1	49	-0.2				-0.2 0.1
104 105	11 11	0.0	27.5 28.5	0.6 1.0		17 22	-0.8 0.5	1	1	88 93	0.4	1	31.5 40	-0.3 1.1	1	60.5 59	0.7 0.6				0.1
106	11.5	0.4	23.5	-1.0		14.5	-1.4	1	1	86	0.2	1	26.5	-1.1	1	29	-1.7				-1.1
107 108	12 12	0.7 0.7	28.5 26	1.0 0.0		19 20.5	-0.3 0.1	1	1	90 84	0.5	1	35.5 20	0.4 -2.1	1	56 59	0.4 0.6				0.3 -0.3
109	11.5	0.4	26	0.0		22	0.5	1	1	96	1.0	1	39.5	1.0	1	57	0.4				0.6
110 111	10.5 11.5	-0.3 0.4	25 22.5	-0.4 -1.4		16 15	-1.0 -1.3	1	1	91.5 93.5	0.7	1	34.5 32.5	-0.1	1	35 54.5	-1.2 0.3				-0.5 -0.3
112	11	0.0	25	-0.4		18.5 21	-0.4	1	1	76.5	-0.6	1	26	-1.1	1	48	-0.2				-0.5
113 114	11 10.5	-0.3	23.5 28	-1.0 0.8		22	0.3 0.5	1	1	88.5 77.5	0.4 -0.5	1	27 28	-1.0 -0.8	1	58 52	0.5 0.1				-0.1 -0.1
115	10	-0.7 -0.3	26	0.0		15 19	-1.3	1	1	94.5	0.9	1	37	0.6	1	57 56	0.4				0.1
116 117	10.5 10.5	-0.3	27.5 26.5	0.6 0.2		19	-0.3 -0.3	1	1	87 69.5	0.3 -1.1	1	39.5 33.5	1.0 0.0	1	59	0.4 0.6				0.4
118 119	11.5	0.4	26.5	0.2		19	-0.3	1	1	72	-0.9	1	30.5	-0.4	1	0	-3.8				-1.3
120	10	-0.7	20.3	0.4		22	0.5	1	1	82.5	-0.3	1	21	-1.9	1	47	-0.3				-0.5
121 122	10.5 12	-0.3 0.7	23 29	-1.2 1.2		23 22	0.8 0.5	1	1	95 98	0.9 1.2	1	33 40	0.0 1.1	1 1	61 60	0.7 0.7				0.3
123	10.5	-0.3	27	0.4		21.5	0.4	1	1	93.5	0.8	1	38	0.8	1	60.5	0.7				0.6
124 125	10 11.5	-0.7 0.4	23.5 23.5	-1.0 -1.0		17.5 24	-0.6 1.0	1	1	83 87	0.0	1	30.5 37.5	-0.4 0.7	1	45 56	-0.5 0.4				-0.5 0.4
126	12	0.7	26	0.0		24	1.0	1	1	89.5	0.5	1	39.5	1.0	1	59	0.6				0.7
127 128	10.5 9.5	-0.3 -1.0	28.5 18	1.0 -3.1		22 19.5	0.5 -0.1	1	1	94 56	0.9 -2.2	1	33.5 34	0.0	1	61 45	0.7 -0.5				0.5 -0.7
129	12	0.7	28.5	1.0		24	1.0		1	98	1.2	1	41.5	1.3	1	60	0.7				1.0
130 131	12 11	0.7	28 26	0.8		22.5 14	0.7 -1.5	1	1	95 101	0.9	1	38.5 39	0.8	1	63 55	0.9				0.8
132	12	0.7	25	-0.4		23.5	0.9	1	1	90.5	0.6	1	33.5	0.0	1	57	0.4				0.4
133 134	12 11	0.7	29 28.5	1.2 1.0		23.5 20	0.9		1	80 86	-0.3 0.2	1	36 32.5	0.4 -0.1	1	62 58	0.8				0.7
135	11.5	0.4	25.5	-0.2		18	-0.5	1	1	88.5	0.4	1	30	-0.5	1	46	-0.4				-0.3
136 137	11.5 12	0.4	26 28.5	0.0 1.0		19.5 15	-0.1 -1.3	1	1	85 87.5	0.1	1	35 30.5	0.3 -0.4	1	56 47	0.4 -0.3				0.2 -0.3
138	12	0.7	27	0.4		23	0.8	1	1	93	0.8	1	35.5	0.4	1	58	0.5				0.6
139 140	12 11	0.7	28.5 27.5	1.0 0.6		24 21	1.0 0.3	1	1	101 79	1.4 -0.4	1	40 28	1.1 -0.8	1	59 53	0.6				0.9 -0.1
141	11.5	0.4	18	-3.1		17.5	-0.6	1	1	87	0.3	1	29	-0.7	1	51	0.0				-0.6
142 143	11.5 10.5	0.4 -0.3	28 29	0.8 1.2		23 21	0.8		1	86 100	0.2 1.3	1	36 35.5	0.4	1	63 60	0.9 0.7				0.7 0.6
144	10.5	-0.3	28	0.8		20.5	0.1	1	1	87	0.3	1	34.5	0.2	1	60	0.7				0.4
145 146	11.5 10	0.4 -0.7	24	-0.8 -1.8		22 5	0.5 -3.9	1	1	69.5 63	-1.1 -1.7	1	28 22	-0.8 -1.8	1	55 51	0.3				-0.2 -1.6
147	11	0.0	28	0.8		20.5	0.1	1	1	84	0.0	1	32.5	-0.1	1	57	0.4				0.2
148 149	11.5 11	0.4	28.5 23.5	1.0 -1.0		21.5 20	0.4		1	77.5 83.5	-0.5 0.0	1	32 36	-0.2 0.4	1	59.5 55	0.6				0.3
150	11	0.0	23	-1.2		17.5	-0.6	1	1	90	0.5	1	36	0.4	1	48	-0.2				-0.2
151 152	12 11	0.7 0.0	26 22.5	0.0 -1.4		23 21	0.8	1	1	88 72.5	0.4 -0.9	1	33 27.5	0.0 -0.9	1	45 44	-0.5 -0.5				0.1 -0.6
153	10.5	-0.3	22.5	-1.4		13.5	-1.7	1	1	87	0.3	1	29	-0.7	1	9	-3.1				-1.6
154 155	10.5 12	-0.3 0.7	21.5 26.5	-1.8 0.2		23 23	0.8	1	1	92.5 93	0.7 0.8	1	35 39	0.3	1 1	50 62	-0.1 0.8				0.1
									· -										•		

User ID	A0	MA0	A1	MA1	P2	A2	MA2	Р3	P4	A4	MA4	P5	A5	MA5	P6	A6	MA6	Α7	MA7	LP	MLP	Perf	MPerf Mtotal
156	11.5	0.4	28	0.8		23	0.8	1	1	93.5	0.8	1	40	1.1	1	55.5	0.3						0.7
157	12	0.7	28	0.8		22	0.5	1	1	84.5	0.1	1	31.5	-0.3	1	61.5	0.8						0.4
158	10.5	-0.3	26	0.0		18.5	-0.4	1	1	70.5	-1.1	1	33	0.0	1	46	-0.4						-0.3
159	10.5	-0.3	24	-0.8		0	-5.2	1	1	83	0.0	1	36	0.4	1	60.5	0.7						-0.9
160	12	0.7	28	0.8		21.5	0.4	1	1	78	-0.4	1	33.5	0.0	1	61	0.7						0.4
161	12	0.7	28.5	1.0		24	1.0	1	1	98	1.2	1	41.5	1.3	1	61	0.7						1.0
162	11	0.0	21.5	-1.8		12	-2.1	0	1	83	0.0	1	35.5	0.4	1	44.5	-0.5						-0.7
163	11.5	0.4	27	0.4		22	0.5	1	1	91.5	0.7	1	36.5	0.5	1	61	0.7						0.6
164	9.5	-1.0	27.5	0.6		19	-0.3	1	1	85.5	0.2	0	29.5	-0.6	1	51	0.0						-0.2
165	11.5	0.4	26.5	0.2		19	-0.3	1	1	93	0.8	1	37	0.6	1	58	0.5						0.4
166	12	0.7	25	-0.4		21	0.3	1	1	90	0.5	1	39	0.9	1	62.5	0.8						0.6
167	10.5	-0.3	26	0.0		23	0.8	1	1	88	0.4	1	36	0.4	1	56	0.4						0.4
168	9.5	-1.0	23.5	-1.0		20.5	0.1	1	1	80.5	-0.2	1	37	0.6	1	59.5	0.6						0.2
169	11.5	0.4	29.5	1.4		19	-0.3	1	1	96	1.0	1	37	0.6	1	61	0.7						0.6
170	10.5	-0.3	27	0.4		23	0.8	1	1	86	0.2	1	36	0.4	1	60.5	0.7						0.5
171	11	0.0	27.5	0.6		19.5	-0.1	1	1	74.5	-0.7	1	39	0.9	1	52	0.1						0.2

