

Motor Control EET240 Comparative Data

Outcome: Student's demonstration of outcome competency - % projects in each scored category

Technical		Score of 1		Score of 2		Score of 3		Score of 4		Score of 5		Students	Avg.
Safety Practices													
	Spring 1998	0	0%	0	0%	1	3%	8	28%	20	69%	29	4.7
	Spring 1999	0	0%	0	0%	2	6%	10	29%	22	65%	34	4.6
	Spring 2001	0	0%	0	0%	0	0%	1	4%	23	96%	24	5.0
	Spring 2003	0	0%	2	6%	4	13%	2	6%	23	74%	31	4.5
	Spring 2004	0	0%	0	0%	2	15%	4	31%	7	54%	13	4.4
	Spring 2006	0	0%	0	0%	0	0%	2	4%	44	96%	46	5.0
	Total	0	0%	2	1%	9	5%	27	15%	139	79%	177	4.7
Use of Hand Tools/Test Equipment													
	Spring 1998	0	0%	0	0%	0	0%	1	3%	28	97%	29	5.0
	Spring 1999	0	0%	1	3%	0	0%	6	18%	27	79%	34	4.7
	Spring 2001	0	0%	0	0%	0	0%	0	0%	24	100%	24	5.0
	Spring 2003	0	0%	1	3%	1	3%	1	3%	28	90%	31	4.8
	Spring 2004	0	0%	1	4%	3	13%	3	13%	16	70%	23	4.5
	Spring 2006	0	0%	1	2%	4	9%	2	4%	39	85%	46	4.7
	Total	0	0%	4	2%	8	4%	13	7%	162	87%	187	4.8
Selection of required hardware													
	Spring 1998	0	0%	0	0%	0	0%	4	14%	25	86%	29	4.9
	Spring 1999	0	0%	1	3%	1	3%	7	21%	25	74%	34	4.6
	Spring 2001	0	0%	0	0%	0	0%	2	8%	22	92%	24	4.9
	Spring 2003	2	6%	0	0%	1	3%	2	6%	26	84%	31	4.6
	Spring 2004	0	0%	0	0%	0	0%	1	4%	22	96%	23	5.0
	Spring 2006	0	0%	2	4%	2	4%	5	11%	37	80%	46	4.7
	Total	2	1%	3	2%	4	2%	21	11%	157	84%	187	4.8

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Technical		Score of 1		Score of 2		Score of 3		Score of 4		Score of 5	Students	Avg.	
Correct wire color code	Spring 1998	0	0%	0	0%	0	0%	0	0%	29	100%	29	5.0
	Spring 1999	0	0%	0	0%	1	3%	10	29%	23	68%	34	4.6
	Spring 2001	0	0%	0	0%	0	0%	5	23%	17	77%	22	4.8
	Spring 2003	0	0%	0	0%	2	6%	5	16%	24	77%	31	4.7
	Spring 2004	0	0%	0	0%	1	4%	4	17%	18	78%	23	4.7
	Spring 2006	0	0%	0	0%	4	9%	2	4%	40	87%	46	4.8
	Total	0	0%	0	0%	8	4%	26	14%	151	82%	185	4.8
Correct wire/terminal board labeling	Spring 1998	0	0%	0	0%	0	0%	14	48%	15	52%	29	4.5
	Spring 1999	0	0%	1	3%	1	3%	6	18%	26	76%	34	4.7
	Spring 2001	0	0%	0	0%	0	0%	3	13%	21	88%	24	4.9
	Spring 2003	1	3%	1	3%	3	10%	7	23%	19	61%	31	4.4
	Spring 2004	0	0%	3	13%	2	9%	8	35%	10	43%	23	4.1
	Spring 2006	0	0%	0	0%	3	7%	4	9%	39	85%	46	4.8
	Total	1	1%	5	3%	9	5%	42	22%	130	70%	187	4.6
Interpretation of Ladder/wiring diagram	Spring 1998	0	0%	0	0%	0	0%	7	24%	22	76%	29	4.8
	Spring 1999	2	6%	0	0%	1	3%	8	24%	23	68%	34	4.5
	Spring 2001	0	0%	0	0%	0	0%	4	17%	20	83%	24	4.8
	Spring 2003	2	6%	1	3%	4	13%	9	29%	15	48%	31	4.1
	Spring 2004	0	0%	0	0%	3	13%	4	17%	16	70%	23	4.6
	Spring 2006	2	4%	1	2%	6	13%	10	22%	27	59%	46	4.3
	Total	6	3%	2	1%	14	7%	42	22%	123	66%	187	4.5

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Technical		Score of 1		Score of 2		Score of 3		Score of 4		Score of 5	Students	Avg.	
Correct control transformer configuration													
	Spring 1998	0	0%	0	0%	0	0%	0	0%	29	100%	29	5.0
	Spring 1999	0	0%	1	3%	2	6%	10	29%	21	62%	34	4.5
	Spring 2001	0	0%	0	0%	0	0%	1	4%	23	96%	24	5.0
	Spring 2003	0	0%	0	0%	3	10%	3	10%	25	81%	31	4.7
	Spring 2004	0	0%	0	0%	1	4%	3	13%	19	83%	23	4.8
	Spring 2006	1	2%	0	0%	0	0%	1	2%	44	96%	46	4.9
	Total	1	1%	1	1%	6	3%	18	10%	161	86%	187	4.8
Circuit operation with specifications													
	Spring 1998	0	0%	0	0%	0	0%	2	7%	27	93%	29	4.9
	Spring 1999	2	6%	0	0%	0	0%	6	18%	26	76%	34	4.6
	Spring 2001	0	0%	0	0%	0	0%	1	4%	23	96%	24	5.0
	Spring 2003	1	3%	2	6%	1	3%	3	10%	24	77%	31	4.5
	Spring 2004	1	4%	0	0%	2	9%	4	17%	16	70%	23	4.5
	Spring 2006	0	0%	2	4%	5	11%	16	35%	23	50%	46	4.3
	Total	4	2%	4	2%	8	4%	32	17%	139	74%	187	4.6
Troubleshooting													
	Spring 1998	0	#DIV/0!	0	#DIV/0!	0	#####	0	#####	0	#####	0	#DIV/0!
	Spring 1999	2	6%	0	0%	1	3%	10	29%	21	62%	34	4.4
	Spring 2001	0	0%	0	0%	0	0%	0	0%	24	100%	24	5.0
	Spring 2003	0	#DIV/0!	0	#DIV/0!	0	#####	0	#####	0	#####	0	#DIV/0!
	Spring 2004	1	5%	0	0%	2	10%	4	20%	13	65%	20	4.4
	Spring 2006	1	2%	2	4%	2	4%	4	9%	37	80%	46	4.6
	Total	4	3%	2	2%	5	4%	18	15%	95	77%	124	4.6
	Grand Total	18	1%	23	1%	71	4%	239	15%	1257	78%	1608	4.7