

Laboratory Utilization Data Sheet

Department:	Electrical and Computer Engineering
Name of laboratory:	Digital Signal Processing
Building number:	9
Room number:	503
Square footage:	1321
Number of Bench	14
Student Capacity	28
Quarter:	Spring
Year:	2013

Equipment on each Bench	Condition	Manual
Dell Optiplex 780 computers with LCD monitors	G	N
Agilent DSO-X 2022A oscilloscope	G	<u>Y</u>
Agilent U3401A DMMS digital multimeter	G	<u>Y</u>
Agilent 33210A ARB function generators	G	<u>Y</u>
Agilent E3630A power supply	G	Y
Power Supply (Systron, TL8-3)	G	N
DMM (Beckman, Tech 300)	F	N
PLD programmer (one)	P	N

Needs		
14 DMMs		

		A	B	C	D=AxB	E=BxC	F=E/C	G=D/E	H=D/C or FxG
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Course or other usage such as by a senior project, research project or technician	Spring 13 Course section number	Student enrollment (Note 4)	Number of weekly contact hours	Number of stations (Note 1)	Weekly student contact hours (WSCH) (Note 2)	Weekly station hours (WSH) (Note 3)	Average weighted weekly room hour (WRH)	Average percent station occupancy	Average weekly hours of station use
ECE 204L	1	16	3	28	48	84	3	57.1	1.7
ECE 205L	1	24	3	28	72	84	3	85.7	2.6
ECE 306L	1	25	3	28	75	84	3	89.3	2.7
ECE 309L	1	28	3	28	84	84	3	100.0	3.0
ECE 424L	1	39	3	28	117	84	3	139.3	4.2
ECE 433L	1	48	3	28	144	84	3	171.4	5.1
ETE 204L	2	30	3	28	90	84	3	107.1	3.2
ETE 210L	1	29	3	28	87	84	3	103.6	3.1
Technician		3	2	14	6	28	2	21.4	0.4
Total or overall value		242	26	20	723	700	35	103.3	36.2

		A	B	C	D=AxB	E=BxC	F=E/C	G=D/E	H=D/C or FxG
Course or other usage such as by a senior project, research project or technician	Winter 13 Course section number	Student enrollment (Note 4)	Number of weekly contact hours	Number of stations (Note 1)	Weekly student contact hours (WSCH) (Note 2)	Weekly station hours (WSH) (Note 3)	Average weighted weekly room hour (WRH)	Average percent station occupancy	Average weekly hours of station use
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Notes:

1. Number of stations = the capacity or maximum number of students a lab can accommodate at any given time; this capacity may be limited by equipment availability, space and safety requirements. We should find out the number of stations the university assumes for each lab and verify that it is appropriate. The number of stations is assumed to be the same for all usage.
2. WSCH = (number of students enrolled in a course) x (number of weekly contact hours scheduled for the course)
3. WSH = (number of weekly contact hours) x (number of stations); the WSH gives the station hours assuming the stations are fully utilized.
4. For a senior project or a research project, the student enrollment is the actual number of students working on the project. For use of a lab by a technician or other personnel, the student enrollment is an equivalent value that is estimated based on the number of stations being used during the equivalent weekly contact hours specified.