Engin 103 November 10, 2011 back to e-syllabus	Topics: Project 2 Part II Presentations Estimations Logbook questions

Project 2 Part II Presentations:

Project 2 leaders: please copy this document and fill in your team response below. Then save as a web page: name "p2p2.html" and upload to your *ftp files* folder, don't forget to upload the associated folder "p2p2_files", if there is one, for the pictures to show. This upload **is required** as part of Project 2 on LabVIEW Virtual Instruments. It is due on the day of the presentation for Project 2 Part II (see e-syllabus)

Section 1 (9:30 AM)

Team #	Brief descriptions of the problem your VI is solving. What are the inputs and outputs, units, range of values, etc.	Insert a snap shot of the Front Panel. Resize the figure to a height of 2in. Crop off blank areas.	Insert a snap shot of the Block Diagram. Resize the figure to a height of 2in. Crop off blank areas.	Insert a snapshot of the Block Diagram of the most important sub VI. Resize the figure to a height of 2in. Crop off blank areas.
1 section 1				
2 section 1				
3 section 1				
4 section 1				
5 section 1				
6 section 1				
7 section 1				
8 section 1				
9 section 1				
10 section 1				

Section 2 (2:00 PM)

Team #	Brief descriptions of the problem your VI is solving. What are the inputs and outputs, units, range of values, etc.	Insert a snap shot of the Front Panel. Resize the figure to a height of 2in. Crop off blank areas.	Insert a snap shot of the Block Diagram. Resize the figure to a height of 2in. Crop off blank areas.	Insert a snapshot of the Block Diagram of the most important sub VI. Resize the figure to a height of 2in. Crop off

				blank areas.
1 section 2				
2 section 2				
3 section 2				
4 section 2				
5 section 2				
6 section 2				
7 section 2				
8 section 2				
9 section 2				
10 section 2				

Section 1 (AM)

Section 2 (PM)

Section 1

Project 2 -part II P&D/ Teams	1	2	3	4	5	6	7	8	9	10
	Vehicle Loan	Capacitors	Race Track	Ball Ramp	Salary & Taxes	Car Ramp	Ball Ramp & Motion at Different Times		Parachute	
Design -FP Ergonomic (10)	8	9	10	10	10	9	10		10	
Design -FP Correct Info (10)	10	9	10	10	10	10	10		8	
Design -BD Organ./Wiring (10)	9	10	8	10	9	9	9		10	
Design -BD Transparency (10)	9	10	8	10	9	9	9		10	
Requirements satisfied (10)	10	10	10	10	8	10	10		9	
Design Total (50)	46	48	46	50	46	47	48	0	47	0
Performance -Proficiency (20)	18	18	19	20	18	18	18		18	
Performance -Pract. App. (10)	10	9	10	10	10	10	9		10	
Performance -Complexity (10)	9	9	9	10	8	8	9		8	
Performance Total (40)	37	36	38	40	36	36	36	0	36	0
Presentation (15)	15	15	15	15	15	15	15		15	
Raw total (105)	98	99	99	105	97	98	99	0	98	0
Total part II P&D (90)	84.00	84.86	84.86	90.00	83.14	84.00	84.86	0.00	84.00	0.00
Project 2 -part II P&D/ Teams	1	2	3	4	5	6	7	8	9	10

Section 2

Project 2 -part II P&D/ Teams	1	2	3	4	5	6	7	8	9	10
	Theoretical Bike Speed	Baseball Stats	Tuition Calculator	Volumetric Efficiency	Triangular Scheme	Fast Food Calories & Workout	Restaurant Tables	Body Fat Calculator	Cargo Transportation	
Design -FP Ergonomic (10)	10	10	10	10	10	10	10	10	10	
Design -FP Correct Info (10)	10	10	10	10	10	10	10	10	10	
Design -BD Organ./Wiring (10)	10	10	10	10	10	10	10	10	10	
Design -BD Transparency (10)	10	10	10	10	9	10	8	10	10	
Requirements satisfied (10)	10	10	7	10	10	10	10	10	10	
Design Total (50)	50	50	47	50	49	50	48	50	50	0
Performance -Proficiency (20)	19	18	18	20	18	18	20	18	18	
Performance -Pract. App. (10)	9	10	10	10	10	10	10	10	8	
Performance -Complexity (10)	9	8	10	10	10	8	10	8	7	
Performance Total (40)	37	36	38	40	38	36	40	36	33	0
Presentation (15)	15	15	15	15	15	15	15	15	15	
Raw total (105)	102	101	100	105	102	101	103	101	98	0
0	87.43	86.57	85.71	90.00	87.43	86.57	88.29	86.57	84.00	0.00
Project 2 -part II P&D/ Teams	1	2	3	4	5	6	7	8	9	10

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Estimation

HW 3

Mass of air through your lung each day:

-Start with some fact: air density (in SI units: kg/m^3)
-Estimate volume of thorax cavity (how? - approximate by a rectangular chamber whose volume is length*width*depth)
-Estimate how many times you breathe in per minute, then per a day
....

Number of books checked out at Healey Library a week:

-Fact: number of students, zooming in on which students would check out books from the library
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LOGBOOK: example of a logbook page

-Use a quadrille notebook; number all pages; date all entries
-Write your notes for all activities, thoughts, problems and solutions, and learning conclusions related to Engin 103. You should write down progress, outcomes, and conclusions on projects and teamwork; conclusions from class work (including LabVIEW) and homework.
-In addition you should answer in the logbook all questions listed in these notes in blue, as shown below:

39) Explain any similarity between a sub-VI and a "super-operator". What are the advantages and disadvantages of using a "super-operator" a)in computer programming b) in mathematics

40) Insert a snapshot of the Front Panel and Block Diagram of your team VI for Part II of Project 2, explain why the different elements were used.

Also do the same for any sub-VI created and used in Part II.

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