Lab Work 8 for Embedded System Development

Basic Course Information			
Course Number	01005128	Subject Category	Compulsory (M)
Clase Format	Lecture	Credit Type and Number of Credits	2
Department	Mechatronics	Student Category	Year 4
Period of Study	Semester 2	Classes per Week	4
Required Materials			
Ineta inter	Somnord Wonglebeard	Takashita Chini	Yamamoto Takahisa

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The course provides students with lab-work relating to electrical components and mechanical components. At the end this course, students integrate these components to build their own designed embedded systems,

Evaluation (Rubrio)	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail)
Following and Doing Procedure	Demonstrates very good knowledge of the lab procedures and principles	Demonstrates good knowledge of the lab procedures and principle	Lacks the appropriate knowledge of the lab procedures and principles
Data Collection	Measurements are both accurate and precise	Measurements are mostly accurate and precise	Measurements are incomplete, inaccurate and imprecise
Report writing	Content is comprehensive, and accurate, important points are stated clearly with supported data.	not comprehensive or incomplete, important	Most of the content is incomplete, important points are addressed and /or inconsistent.
Safety	Proper safety precautions and awareness are consistently used	Proper safety precautions and awareness are generally used	Proper safety precautions and awareness are missed

M23 Ability to design, propose and develop shortening and electronic systems for robotics/ mechatronic systems
M35 Ability to design, propose and develop shortenia and electronic systems for robotics/ mechatronic systems
M35 Ability to design, propose and develop mechatronic systems
M44 Ability to design and develop the otherse for control robotic/ mechatronic systems

Teaching Mathyd

Outlink

The course provides students with lab work that covered the topic of Medial. Been design number of Covered the topic of Medial. Been design number of Covered to the Covered Section of Covered Se

Please Note :	Complying with satisfy rules. Lab work topics ar	re subject to be changed due to	ı
Course Plan			Related MCC
Semester 2	Contents and Method of Course	Goale	Helated MCC
1st week	Guidance of course and Safety instruction	Explaining Guidance of and Safety instruction	
		Safety instruction	
			V-D 1
		e	
2nd week	MatLab (1)	Explaining Learn the MatLab	
			V-D 1
		Euploining Loose the	
3rd week	MatLab (2)	Explaining Learn the MatLab	
			V 0 F 0
			V-C 5 6
4th week	Electrical transformer / DC motor (1)	Understanding a characteristics of DC motor ans electrical transformer	
401 W66K	Electrical transformer / DC motor (1)	ans electrical transformer	
		and the control of an information	
			V-C 5 6
			V 0 0 0
5th week	Electrical transformer / DC motor (2)	Understanding a	
OUT WOOK	Cectical transformer / CC flotor (2)	Understanding a characteristics of DC motor ans electrical transformer	
			V-D 1
6th week	MatLab (3)	Explaining Learn the MatLab	
		WHILHD	
	1		
			V-D 1
7th week	MatLab (4)	Explaining Learn the MatLab	
			——
			V-D 2 2
		Understanding for the	-
8th week	Strength of Material (1)	theory and experiment of strength of material	
		strength of material	
9th week	Report day		
10th week	Midterm Exam week		
	+		V-D 2 2
11th week	Strength of Material (2)	Understanding for the theory and experiment of strength of material	
	000 40101 1000 100 100	strength of material	
			VI-D 1 1
		I Indomination for the	
12th week	Beam design (1) Numerial	Understanding for the theory and experiment of Beam design	
		Beam design	
			W-D 1 1
		Understanding for the theory and experiment of Beam design	
13th week	Beam design (2) Experiment	theory and experiment of	
		Beam design	
			VI-D 1 1
	L	Understanding for the theory and experiment of Beam design	
14th week	Beam design (3) Optimized and designed	theory and experiment of Ream design	
		Controvers 1	
			V-A 4 8
		Understanding for the	
15th week	Fluid mechanics (1)	Understanding for the theory and experiment of Fluid mechanics	
	1		
			V-A 4 8
		1	
16th week	Fluid mechanics (2)	Understanding for the	
TOUT WEEK		Understanding for the theory and experiment of Fluid mechanics	
			-
			V-A 4 8
		Understander for the	
17th week	Thermo dynamics (1)	Understanding for the theory and experiment of Thermo dynamics	
		Thermo dynamics	-
			V-A 4 8
		Understanding for the	
18th week	Thermo dynamics (2)	theory and experiment of Thermo dynamics	-
	1	Thermo dynamics	
19th week	Report day		
	1		
20th week	Final Exam week		
			Do
	Examination Quiz	Mutual Evaluations between students	Bennet Builde Au