Lab work 7 for Embedded System Development

Basic Course Information			
Course Number	01005127	Subject Category	Compulsory (M)
Clase Format	Lecture	Credit Type and Number of Credits	2
Department	Mechatronics	Student Category	Year 4
Period of Study	Semester 1	Classes per Week	4
Required Materials			
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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,	Content is comprehensive, and accurate, Important points are stated clearly with supported	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

Plaistonaho with Learning Outcomes

M(1) Ability to design, propose and develop relocitor mechatronic systems to solve specific problems

M(2) Ability to design, propose and develop abortinal and electronic systems for robotical //machatronic systems

M(3) Ability to design, propose and develop electrical and electronic systems for robotical //machatronic systems

Teaching Method				
Outline:	The course provides students with lab work that covered the topic of FA system and its control, Students learn the FX series PLC iProgrammable Logic Controller) programming and its application for FA systems.			
Class Format:	Group work			
Please Note :	Complying with safety rules. Lab work topics are subject to be changed due to the school schedule. All reports must be submitted and accepted to get the			

Course Plan			l
Semester 1	Contents and Method of Course	Goale	Related MCC
			VI-D 1 1
		Explaining Guidance of course and Introduction to PLC	
1st week	Guidance of course and Introduction to PLC	course and Introduction to	
		PLC	
			VI-D 1 1
		Euploining Loose the EV	
2nd week	Learn the FX Series PLC	Explaining Learn the FX Series PLC	
			VI-D 1 1
		Understanding the role and characteristics of FX series PLC	
3rd week	Let's Study the Basics (1)	characteristics of FX series	
		PLC	
			VI-D 1 1
		I ladaretanding the role and	
4th week	Let's Study the Basics (2)	Understanding the role and characteristics of FX series PLC	
		PLC	
5th week	Holiday		
OUT WORK	1 101000		
			VI-D 1 5
			VI-D 1 S
		Create a control nonerom of	
6th week	Beginner Challenge P1/2	Create a control program of PLC for beginners	
	1	1	
	1	1	
-		1	VI-D 1 1
	1	1.	
7th week	Beginner Challenge P2/2	Create a control program of PLC for beginners	-
		TLU for beginners	-
	1		-
	 	+	
	1	1	
Oute	Wrap UP # 01	Review and summarize	1
8th week	wrap ∪P # 01	Review and summarize learning	
9th week	Midterm Exam week		
10th week	Midterm Exam week		
TOUTWEEK	MICROTTI CABITI WORK		
			VI-D 1 1
			VI-D 1 1
		Croate a control program of	
11th week	Intermediate Challenge P1/3	Create a control program of PLC for intermediate	
			VI-D 1 1
		C	
12th week	Intermediate Challenge P2/3	Create a control program of PLC for intermediate	
		2010/11/0/10/00/00	
			VI-D 1 1
13th week	Intermediate Challenge P3/3	Create a control program of PLC for intermediate	
		PLC for intermediate	
	1		
	1	1	VI-D 1 1
	1		
14th week	Advanced Challenge P1/3	Create a control program of PLC for advanced challenge	
170111000	The second of terrel are 1 17 of	PLC for advanced challenge	
	1	1	-
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	1	1	
	Holiday	1	
15th week	Holiday	1	
	1		
	1		VI-D 1 1
	1		-
16th week	Advanced Challenge P2/3	Create a control program of PLC for advanced challenge	
	1	Co for advanced challenge	
	1	1	
	i e	1	VI-D 1 1
	1	1	
17th week	Advanced Challenge P3/3	Create a control program of PLC for advanced challenge	
110111000	The same of the sa	PLC for advanced challenge	
	1	1	
		-	VI-D 1
	1	1	11-D 1
	1	Create a simple automation system for advanced challenge	
18th week	Advanced Challenge Project	system for advanced	
	1	challenge	
	1		
			VI-D 1
	1	Create a simple automation	
19th week	Advanced Challenge Projec / Wrap UP # 02	Create a simple automation system for advanced challenge and review and summarize learning	
	7 Oct 1000 To	challenge and review and	-
	1	summarize learning	-
		1	
20th week	Final Exam week		
20th week	Final Exam week		
20th week	Final Exam week		
20th week	Final Exam week		Do
20th week	Final Exam week	Marked Evolutions buttons students	Do Report Portiolo Ott