Mechatronics 2

Basic Course Information				
Course Number	01005111	Subject Category	Compulsory (MI	
Class Format	Lecture	Credit Type and Number of Credits	1	
Department	Mechatronics	Student Category	Year 3	
Period of Study	Semester 2	Classes per Week	2	
Required Materials	Provided by the course teacher			
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Course Objective

If I To be able to exclain the types and roles of the mechanical elements that compose a mechanic.

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Evaluation (Rubrio)	Ideal Level of Achievement Very Goodi	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fall)
To be able to explain the types and roles of the mechanical elements that compose a machine.	To be able to explain the types and roles of the mechanical elements that compose a machine in detail.	To be able to explain outline the types and roles of the mechanical elements that compose a machine.	Cannot be able to explain the types and roles of the mechanical elements.
Understand the concept of instantaneous center and be able to calculate the welcoty and acceleration of a mechanism.	Deeply understand the concept of instantaneous center and be able to apply the velocity and acceleration of a mechanism.	Understand an overview of the concept of instantaneous center and be able to calculate the velocity and acceleration of a mechanism.	Cannot understand the concert of instantaneous center and cannot be able to calculate the velocity and acceleration of a mechanism,
Ability to provide basic calculations on motion transfer elements necessary for machine design.	To be able to provide basic calculations and its application on motion transfer elements necessary for machine design.	To be able to explain basic calculations on motion transfer elements necessary for machine design,	Cannot be able to explain basic calculations on motion transfer elements necessary for machine design,

Plaktionship with Learning Outcomes
M(1) Ability to deelgn, propose and develop robotic/ mechatronic systems to solve specific problems
M(3) Ability to deelgn, propose and develop mechanical solutions/ systems for robotic/ mechatronic systems
Please change

Teaching Method

	Contents and Method of Course	Goals	Related MCC V-A 2 28		
Semester 2	Contents and Method of Course				
	Introduction class: explaining to class objective.	Understanding class objective, criteria of score, and expected output, overview of introduction to Mechanisms and Kinematics			
1st week	Introduction class explaining to class objective, criteria of score, expected output and overview of introduction to Mechanisms and Kinematics	and expected output,			
	THE CALCULATION PROCESSING AS A CALCULATION OF THE CALCULATION OF T	Mechanisms and Kinematics			
			V-A 2		
2nd week	Kinematic Diagrams	Understanding concepts of Kinematic Diagrams			
		Pariemetic Diagrams			
			V-A 2		
3rd week		Understanding concepts of Mobility			
3rd week	Mobility	Mobility			
			V-A 2		
4th week	Linkages and Mechanism part 1	Understand basic four-bar linkages			
		iii Pogeo			
			V-A 2		
5th week		Understand and explain			
oth week	Linkages and Mechanism part 2	Understand and explain about various link mechanisms			
			V-A 2		
		Hadanaka dan asasasa af			
6th week	Position and Displacement Analysis	Understanding concepts of Position and Displacement Analysis			
		Analysis			
			l		
			V-A 2		
		Linderstanding concents of	 		
7th week	Mechanism Design	Understanding concepts of Mechanism Design	 		
8th week	Midterm examination	Check understanding covers Weeks 1-7			
OUT WEEK	Midlerni examination	covers Weeks 1-7			
9th week	school events	-			
10th week	Monday class	-			
11th week	Reflection and Feedback	Reflect midterm examination and feedback to foster understanding.			
		understanding.			
			V-A 2		
		Understanding concents of			
12th week	Cams: introduction of Cam and types	Understanding concepts of Cams and classification			
			V-A 2		
		Hadanaka dan asasasa af			
13th week	Cams: Design and Kinematic Analysis	Understanding concepts of Cam cams displacement curve etc.			
		curve etc.			
			V-A 2		
		Understanding concepts of	17A 2		
14th week	Gear: introduction of gear and types	gear and classification			
			 		
			V-A 2		
		Hadanaka dan asasasa af	V-A 2 V-A 2		
15th week	Gears : Kinematic analysis and selection	Understanding concepts of gear kinematic analysis and selection			
		selection			
			V-A 2		
		Linderstanding concents of	V-A 2		
16th week	Belt and Chain Drives	Understanding concepts of Belt and Chain Drives	V-A 2		
16th week	Belt and Chain Drives	Understanding concepts of Belt and Chain Drives	V-A 2		
16th week	Belt and Chain Drives	Understanding concepts of Belt and Chain Drives			
16th week	Belt and Chain Drives		V-A 2 V-A 2 V-A 2		
16th week			V-A 2		
	Belt and Chain Drives Screw Mechanisms	Understanding concepts of Belt and Chain Drives Understanding concepts of Screw Mechanisms	V-A 2		
			V-A 2		
			V-A 2		
17th week	Screw Mechanisms	Understanding concepts of Screw Mechanisms	V-A 2		
		Understanding concepts of Screw Mechanisms	V-A 2		
17th week	Screw Mechanisms		V-A 2		
17th week	Screw Mechanisms	Understanding concepts of Screw Mechanisms	V-A 2		
17th week	Screw Mechanisms	Understanding concepts of Screw Mechanisms	V-A 2		
17th week	Screw Mechanisms Whan-up of 2nd half of senseter Flewwwl	Understanding concepts of Screw Mechanisms Review and summarize learning	V-A 2		
17th week	Screw Mechanisms	Understanding concepts of Screw Mechanisms	V-A 2		
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17th week	Screw Mechanisms Whan-up of 2nd half of senseter Flewwwl	Understanding concepts of Screw Mechanisms Review and summarize learning	V-A 2		
17th week	Screw Mechanisms Whan-up of 2nd half of senseter Flewwwl	Understanding concepts of Screw Mechanisms Review and summarize learning Check understanding covers Weeks 11-18.	V-A 2		
17th week	Screw Mechanisms Whan-up of 2nd half of senseter Flewwwl	Understanding concepts of Screw Mechanisms Peview and summarize benning Check understanding covers Weeks 11-18 Perfect final examination	V-A 2		
17th week 18th week 18th week	Screw Michanisms What-up of 2nd half of sensitive Pleview Final exemination	Understanding concepts of Screw Mechanisms Review and summarize learning Check understanding covers Weeks 11-18.	V-A 2		

	Examination	Ou dez	Mutual Evaluations bottoon students	Recort	Portfolio	Other
Basic Ability	35	20				
Technical Ability	15	15				
Interdisciplinary Ability	10	5				