Introduction to Mechatronics

Besic Course Information			
Course Number	01005072	Subject Category	Compulsory (M)
Class Format	Lecture	Credit Type and Number of Credits	1
Department	Mechatronics	Student Category	Year 1
Period of Study	Semester 2	Classes per Week	2
Required Materials	TBA		
Instructor	Anichet Cheivaporn	Dr Wutipons Preechaphonkul	

Course Obstoche

In this course, dubbers and learn how mechanical engineering southerdaws is account to a daily use products. In addition, overwhere of the International Course is dubbers and the products are discoursed in the Course in the Course in dubbers and the course is dubbers and the addition of the Course is dubbers and the additional course is dubbers and the course in the Course is dubbers and the course is dubbers and the course of the additional course of the course is dubbers and the course of the additional course of the addi

Evaluation(Rubrio)	Ideal Level of Achievement	Standard Level of	Unacceptable Level of
	(Very Good)	Achievement (Good)	Achievement (Fail)
To be able to explain the mechanical technology in the daily use products.	To be able to explain the	To be able to explain outline	Cannot be able to explain the
	mechanical technology in the	the mechanical technology in	mechanical technology in the
	daily use products in detail.	the daily use products.	daily use products.
Understand an overview of the individual technologies that consist of mechanical engineering.		Understand an overview of the individual technologies that consist of mechanical engineering, and explain how to use it.	overview of the individual technologies that consist of
To be able to explain the role of mechanical engineering.	To be able to explain the role of mechanical engineering in detail, and apply it to design.	To be able to explain outline the role of mechanical engineering.	Cannot be able to explain outline the role of mechanical engineering.

Relationship with Learning Outcomes
M(1) Ability to design, propose and develop robotio/ mechatronic systems to solve specific problems MISI Ability to design, propose and develop mechanical solutions/ systems for robotic/ mechatronic sys Piseas change

Teaching Method	esoning Method		
Outline:	This course provide an introduction to the basic principles of mechanical engineering history, basics mechanical drawing and delain of mechanical machatronic elements, basics analysis of forcis basics strength of materials. fundamental of fluid and thermodynamic for mechatronics engineering.		
Class Format	Lecture, groupwork, and presentation		
Please Note :	If you have any questions, please ask me anytime during the lecture,		

Semester 2	Contents and Method of Course	Goale	Related MCC		
	COMMINS AND MINISTER OF COLUMN		V-D 4		
	Introvilentian classi evaluining to class objective criteria of some	Understand class objective,			
1st week	Introduction class: explaining to class objective, criteria of score, and expected output. Introduction history and the field of mechanical engineering	criteria of score, and expected output, Understand overview of daily use mechanical and			
	mechanical engineering	of daily use mechanical and mechatronics application.			
		THEO BUILDINGS BUDINGSION C			
		Understand overview of daily			
2nd week	Application of mechanics and mechatronics (1)	Understand overview of daily use mechanical and mechatronics application.			
		mechatronics application.			
		Understand ditails of daily use mechanical and mechatronics application,			
3rd week	Application of mechanics and mechatronics (2)	mechanical and mechatronics			
		application.			
4th week	Introduction to Mechanical drawing (1)	Understand basic of mechanical drawing			
		mechanical drawing.			
		Understand basic mechanical			
5th week	Introduction to Mechanical drawing (2)	Understand basic mechanical			
DUT WHEK	Introduction to wednerical drawing (2)	drawing projection method 2 to 3 dimensions.			
		Understand basic mechanical drawing projection method 3 to 2 dimensions,			
6th week	Introduction to Mechanical drawing (3)	drawing projection method 3 to			
		∠ dimensions,			
		1			
		District and District Co.			
7th week	Introduction to Mechanical elements (1)	Understand basic of mechanical elements.			
		roca see sicas esercises 10s.			
		Understand basic of mechanical elements, gear transission , spring, pipe and valve.			
8th week	Introduction to Mechanical elements (2)	mechanical elements, gear			
		u es subsecti , spring, pipe and			
		Va/V4.			
9th week	Midterm examination	Check your understanding			
SU1 Week	Widdern examination	Check your understanding			
		Reflect midterm examination and feedback to foster understanding.			
10th week	Reflection and Feedback	and feedback to foster			
		understanding.			
11th week	Introduction to Strength of material (1)	Understand basic material dynamics for stress and strain.			
		COT RETITION FOR BUT BOT BUT BUT BUT BUT BUT BUT BUT BUT BUT BU			
		I landorstand basis material			
12th week	Introduction to Strength of material (2)	dynamics for shearing and			
		Understand basic material dynamics for shearing and bending moment,			
13th week	Introduction to Fluid dynamics	Understand basic fluid dynamics and its application,			
1.5th week	ntroduction to Fluid dynamics	dynamics and its application.			
		1			
		1			
		1			
d data constr	based of a final party of the control of the contro	Understand basic thermo			
14th week	Introduction to Thermo dynamics	Understand basic thermo dynamics and its application.			
		1			
		1			
		District and District and Co.			
15th week	Introduction to Mechanical materials	Understand basic mechanical materials.			
16th week	Introduction to Manufacturins process	Understand basic			
16th week	Introduction to Manufacturing process	Understand basic manufacturing process,			
16th week	Introduction to Manufacturing process	Understand basic manufacturing process.			
16th week	Introduction to Manufacturing process	Understand basic manufacturing process,			
16th week	Introduction to Manufacturing process	manufacturing process.			
		manufacturing process.			
16th week 17th week	Introduction to Manufacturing process Introduction to measurement and control	manufacturing process.			
		Understand basic manufacturing process. Understand basic measurement and control,			
		manufacturing process.			
		manufacturing process.			
17th week		manufacturing process, Understand basic measurement and control,			
		manufacturing process, Understand basic measurement and control, Promote understanding by			
17th week	Peroduction to measurement and control	manufacturing process, Understand basic measurement and control,			
17th week	Peroduction to measurement and control	manufacturing process, Understand basic measurement and control, Promote understanding by			
17th week	Peroduction to measurement and control	manufacturing process, Understand basic measurement and control, Promote understanding by			
17th week	Peroduction to measurement and control	manufacturing process, Understand basic measurement and control, Promote understanding by			
17th week	Introduction to measurement and control Exercises for externisation	manufacturing process. Understand basic measurement and control. Promote understanding by exercises.			
17th week	Peroduction to measurement and control	manufacturing process, Understand basic measurement and control, Promote understanding by			
17th week	Introduction to measurement and control Exercises for externisation	manufacturing process. Understand basic measurement and control. Promote understanding by exercises.			
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17th week	Introduction to measurement and control Exercises for externisation	manufacturing process. Understand basic measurement and control. Promote understanding by exercises.			
17th voolk 18th voolk 18th voolk	Introduction to measurement and control Exercises for examination Final exemination	manufacturing process. Understand basis measurement and control. Promote understanding by overdises. Check your understanding			
17th week	Introduction to measurement and control Exercises for externisation	manufacturing process. Understand basis measurement and control. Promote understanding by overdises. Check your understanding			
17th voolk 18th voolk 18th voolk	Introduction to measurement and control Exercises for examination Final exemination	manufacturing process. Understand basis massurement and control. Promote understanding by esercials. Check your understanding			

	Examination	Assignment	Total	Report	Portfolio	Other
Basic Ability	30	10	40			
Technical Ability	40	20	60			