Introduction of Mechanics

Jass Format	03005072 Lecture	Subject Category Credit Type and Number of Credits	Compulsory IM 1]
Department Period of Study	Electrical and Electronics Semester 2	Student Category Classes per Week	Year 1 2	
Department Period of Study Required Materials Instructor	TBA	Dr.Yamamoto Takahisa]
Des man Obstantiture	arhanina) anoinaoring tarihuvingu	is annied to a daily i se more into	h advition overview of the	1
this course, students will learn how n ndvidual technology in the mechanical olows, 1) To be able to explain the mechanical 2) Understand an overview of the indi 3) To be able to explain the role of me	engineering will introduced. Throu al technology in the daily use prod vickual technologies that consist of chanical engineering.	ash this course, students can be a ucts. I mechanical engineering.	chieved in three main objects as	
Evaluation (Rubric)	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail)]
To be able to explain the mechanical echnology in the daily use products,	To be able to explain the mechanical technology in the daily use products in detail,	To be able to explain outline the mechanical technology in the daily use products.	Cannot be able to explain the mechanical technology in the daily use products.	
Inderstand an overview of the ndvidual technologies that consist of nechanical engineering.	Deeply understand an overview of the individual technologies that consist of mechanical engineering, and apply it to design.	Understand an overview of the individual technologies that consist of mechanical engineering, and explain how to use it.	Cannot understand an overview of the individual technologies that consist of mechanical engineering.	
To be able to explain the role of nechanical 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.	
E(1) Ability to design, propose and d	Relationship with Lea levelop electrical and electronic	rning Outcomes crysteme to solve specific prob	iems.]]
E(5) Ability to design, propose and o Please change				-
feaching Method]
Dutline	This course provide an introduction to the basic principles of me basics mechanical drawing and design of mechanical/mechatron forces basics strength of materials. Fundamental of fluid and th engineering.		chanical engineering: history, ic elements, basics analysis of rmodynamic for mechatronics	
Class Format:	Lecture, groupwork, and preser]
Please Note :	If you have any questions, pleas	e ask me anytime during the lect.	ire,]
Course Plan Semester 2	Contents and A	lethod of Course	Goale	Related MCC
1st week	Introduction class' explaining to	Introduction class explaining to class objective, criteria of score, and expected output, introduction history and the field of mechanical engineering		V-D 4
2nd week	Application of mechanics and mechatronics (1)		Understand class objective, oriteria of score, and expected output, Understand overview of daily use mechanical and mechatronics application. Understand overview of daily use mechanical and mechatronics application.	
3rd week	Application of mechanics and mechatronics (2)		Understand ditails of daily use mechanical and mechatronics application.	
4th week	Introduction to Mechanical drawing (1)		Understand basic of mechanical drawing.	
5th week	Introduction to Mechanical drawing (2)		Understand basic mechanical drawing projection method 2 to 3 dimensione.	
6th week	Introduction to Mechanical drawing (3)		Understand basic mechanical drawing projection method 3 to 2 dimensions.	
7th week	Introduction to Mechanical elements (1)		Understand basic of mechanical elements,	
8th week	Introduction to Mechanical elements (2)		Understand basic of mechanical elements, gear tranmission , spring, pipe and valve,	
9th week	Midterm examination		Check your understanding	
10th week	Reflection and Feedback		Reflect midterm examination and feedback to foster understanding,	
11th week	Introduction to Strength of material (1)		Understand basic material dynamics for stress and strain,	
12th week	Introduction to Strength of material (2)		Understand basic material dynamics for shearing and bending moment,	
13th week	Introduction to Fluid dynamics		Understand basic fluid dynamics and its application.	
14th week	Introduction to Thermo dynamics		Understand basic thermo dynamics and its application.	
15th week	Introduction to Mechanical materials		Understand basic mechanical materials.	
16th week	Introduction to Manufacturing process		Understand basic manufacturing process.	
17th week	Introduction to measurement and control		Understand basic measurement and control.	
18th week	Exercises for examination		Promote understanding by exercises.	
19th week	Final examination		Check your understanding	
	Reflection and Feedback		Reflect final examination and feedback to foster understanding.	
20th week	Pienecuon a	na reedbaok	understanding.	
20th week	Examination	Antempent	understanding.	Do ne