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Basic Course Information			
Course Number	01005094	Subject Category	Compulsory (M
Class Format	Lecture	Credit Type and Number of Credits	1
Department	Mechatronics	Student Category	Year 4
Period of Study	Semester 1	Classes per Week	2
Required Materials			
Instructor	Werachai Pattanapiboon	Hitoshi Nishizawa	

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Evaluation (Rubric)	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail)
	Ideal Level of Achievement (Very Good)	Standard Level of Achievement (Good)	Unacceptable Level of Achievement (Fail)
Transient phenomenon in RL Series Circuits	Demonstrates very good knowledge of Transient phenomenon in RL Series Circuits	Demonstrates good knowledge of Transient phenomenon in RL Series Circuits	Lacks the appropriate knowledge of Transient phenomenon in RL Series Circuits
Transient phenomenon in RC Series Circuits	Demonstrates very good knowledge of Transient phenomenon in RC Series Circuits	Demonstrates good knowledge of Transient phenomenon in RC Series Circuits	Lacks the appropriate knowledge of Transient phenomenon in RC Series Circuits
Transient phenomenon in RLC Series Circuits	Demonstrates very good knowledge of Transient phenomenon in RLC Series Circuits	Demonstrates good knowledge of Transient phenomenon in RLC Series Circuits	Lacks the appropriate knowledge of Transient phenomenon in RLC Series Circuits

 Nebsionality with Learning Outcomes

 V22 Ability to design, propose and develop shortinal and shortonic systems for robotics/ mechatronic systems

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Course Plan	Contents and Method of Course	Goele	Balated MCC
1st week	Introduction of capacitors and inductors in series or in parallel circuits	Explaining Introduction of capacitors and inductors in series or in parallel circuits	V-C 1 10 V-C 2 31 V-C 2 32 V-C 2 32 V-C 2 33
2nd week	Transient phenomenon in RC series circuits (DCI (1)	Explaining Transient phenomenon in RC series circuits IDCI (1)	V-C 1 24
3rd week	Transient phenomenon in RC series circuits (DC) (2)	Explaining Translent phenomenon in RC series circuits (DC) (2)	V-C 1 24
4th week	Transient phenomenon in RL series circuits (DC) (1)	Explaining Transient phenomenon in RL series circuits (DC) (1)	V-C 1 24
5th week	Transient phenomenon in RL series circuits (DC) (2)	Explaining Transient phenomenon in RL series circuits (DC) (2)	N.C. 1 25
6th week	Transient phenomenon in PLC series circuits (DC) (1)	Explaining Transient phenomenon in RLC series circuits (DC) (1)	V-C 1 25
7th week	Transient phenomenon in RLC series circuits (DC)	Explaining Transient phenomenon in RLC series circuits (DCI (2)	
8th week	Review before Midterm Examination	Explaining Review before Midterm Examination	
9th week	Midterm Examination	Test student understanding,	
10th week	Return Exam Papers and Feedback	Explaining Return Exam Papers and Feedback	
11th week	Friday class	Friday class	V-C 1 25
12th week	Transient phenomenon in RLC series circuits (DC) (3)	Explaining Transient phenomenon in RLC series circuits (DC) (3)	V-C 1 12
13th week	Transient phenomenon in RC Series Circuits (AC)	Explaining Transient phenomenon in RC Series Circuits (ACI	V-C 1 13
14th week	Transient phenomenon in RL Series Circuits (ACI	Explaining Translent phenomenon in RL Series Circuits (AC)	V-C 1 13
15th week	Transient phenomenon in RLC Series Circuits (AC)	Explaining Transient phenomenon in PLC Series Circuits (AC)	V-C 1 13
16th week	Basic Three-phase.	Understand the basic three- phase, and can analize the three phase of defta-wye and wye-defta	V-C 5 64 V-C 5 65
17th week	Three phase for AC motor applications.	Analize and evaluate the AC power of three-phase induction motors.	
18th week	Review before Final Examination	Explaining: Review before Final Examination	
19th week	Final Examination	Test student understanding	
20th week	Final Examination	Test student understanding.	
21st week	Return Exam Papers and Feedback	Review and summarize learning	
			whole
Basic Ability	70 Qutz	o	30
Technical Ability	0	0	
Interdisciplinary Ability	0 0	0	