



ระดับปริญญา  ตรี  ป.บัณฑิต  โท  ป.บัณฑิตชั้นสูง  เอก  
หลักสูตรวิศวกรรมศาสตรบัณฑิต สาขาวิชาวิศวกรรมไฟฟ้า

คณะวิศวกรรมศาสตร์  
ภาควิชาวิศวกรรมไฟฟ้า

**Plan C: Electrical Engineering Technology (Energy Planning and Management) for both Tracks**

Y/Sem	Course No.	Name	Credit Hour (Theory – Practice – Self Study)	Y/Sem	Course No.	Name	Credit Hour (Theory – Practice – Self Study)	
1 / 1	MUGE 100	General Education for Human Development	3 (3-0-6)	1 / 2	MUGE 100	General Education for Human Development	3 (3-0-6)	
	LAEN xxx	English Level xxx	2		LAEN xxx	English Level xxx	2	
	SCMA 115	Calculus	3 (3-0-6)		LATH xxx	Art of Using Thai Language for Communication	2	
	SCPY 110	Physics Laboratory I	1 (0-3-1)		SCCH 115	Chemistry Laboratory I	1 (0-3-1)	
	SCPY 130	Fundamental Physics I	3 (3-0-6)		SCCH 118	General Chemistry I	3 (3-0-6)	
	EGCO 111	Computer Programming	3 (2-2-5)		SCMA 165	Ordinary Differential Equations	3 (3-0-6)	
	EGME 102	Engineering Drawing	3 (2-3-5)		SCPY 120	Physics Laboratory II	1 (0-3-1)	
	EGEE 110	Introduction to Electrical Engineering Skills	1 (0-3-1)		SCPY 140	Fundamental Physics II	3 (3-0-6)	
<b>Total</b>	<b>19</b>			<b>Total</b>	<b>18</b>	EGIE 103	Engineering Materials	3 (3-0-6)
2 / 1	EGEE 200	Mathematics for Electrical Engineering I	3 (3-0-6)	2 / 2	EGEE 203	Mathematics for Electrical Engineering II	3 (3-0-6)	
	EGEE 201	Multivariable Calculus	3 (3-0-6)		EGEE 204	Statistics Probability and Random Variables	3 (3-0-6)	
	EGEE 210	Introduction to Software Applications for	1 (0-3-1)		EGEE 212	Electric Circuit Analysis II	2 (2-0-4)	
	EGEE 211	Electric Circuit Analysis I	2 (2-0-4)		EGEE 214	Electric Circuit Analysis Laboratory	1 (0-3-1)	
	EGEE 244	Physics of Electronic Devices	3 (3-0-6)		EGEE 280	Digital Circuit and Logic Design	3 (3-0-6)	
	EGME 220	Engineering Mechanics	3 (3-0-6)		EGEE 281	Digital Circuit and Logic Design Laboratory	1 (0-3-1)	
	EGEE 290	Introduction to Electrical Engineering Design	1 (1-0-2)		EGEE 219	Electrical Engineering Technology	3 (3-0-6)	
<b>Total</b>	<b>19</b>	Science and Environmental Literacy	3	<b>Total</b>	<b>18</b>	General Education Elective	2	
Project Track				Co- Op Track				
Y/Sem	Course No.	Name	Credit Hour (Theory – Practice – Self Study)	Course No.	Name	Credit Hour (Theory – Practice – Self Study)		
3 / 1	EGEE 343	Electronics Circuits Engineering	3 (3-0-6)	EGEE 343	Electronics Circuits Engineering	3 (3-0-6)		
	EGEE 344	Electronics Circuits Engineering Laboratory	1 (0-3-1)	EGEE 344	Electronics Circuits Engineering Laboratory	1 (0-3-1)		
	EGEE 32x	Elective in Basic Communications Engineering	3 (3-0-6)	EGEE 32x	Elective in Basic Communications Engineering	3 (3-0-6)		
	EGEE 324	Telecommunication Laboratory I	1 (0-3-1)	EGEE 324	Telecommunication Laboratory I	1 (0-3-1)		
	EGEE 350	Electrical Power System Analysis	3 (3-0-6)	EGEE 350	Electrical Power System Analysis	3 (3-0-6)		
	EGEE 353	Engineering Electromagnetics	3 (3-0-6)	EGEE 353	Engineering Electromagnetics	3 (3-0-6)		
	EGEE 360	Signals and Systems	3 (3-0-6)	EGEE 360	Signals and Systems	3 (3-0-6)		
	EGEE 361	Electrical Measurement and Instrumentation	3 (3-0-6)	EGEE 361	Electrical Measurement and Instrumentation	3 (3-0-6)		
		<b>Total</b>	<b>20 (18-6-38)</b>		<b>Total</b>	<b>20 (18-6-38)</b>		
3 / 2	EGID 300	Philosophy Ethics and Law for Engineers	1 (1-0-2)	EGID 300	Philosophy Ethics and Law for Engineers	1 (1-0-2)		
	EGEE 354	Electrical Power Laboratory	1 (0-3-1)	EGEE 354	Electrical Power Laboratory	1 (0-3-1)		
	EGEE xxx	Engineering Elective I	3 (3-0-6)	EGEE xxx	Engineering Elective I	3 (3-0-6)		
	EGEE 390	Project Topics in Electrical Engineering	1 (1-0-2)	EGEE 390	Project Topics in Electrical Engineering	1 (1-0-2)		
	EGEE 45x	Elective in Electrical Energy I	3 (3-0-6)	EGEE 45x	Elective in Electrical Energy I	3 (3-0-6)		
	EGEE 399	Electrical Engineering Training	3 (0-18-3)	EGEE Xxx	Elective in Communication and Computer Engineering	3 (3-0-6)		
		General Education Electives (4 courses)	8		General Education Electives (4 courses)	8		
		<b>Total</b>	<b>20</b>		<b>Total</b>	<b>20</b>		
4 / 1	EGEE xxx	Elective in Machine Learning and Data science	3 (3-0-6)	EGEE 400	Electrical Engineering Cooperative Training	7 (3-21-10)		
	EGEE xxx	Engineering Elective II	3					
	EGEE 490	Project Seminar	1 (0-3-1)					
		Free Elective	3					
		<b>Total</b>	<b>10</b>		<b>Total</b>	<b>7 (3-21-10)</b>		
4 / 2	EGEE 491	Capstone Project in Electrical Engineering	3 (0-9-3)	EGEE 491	Capstone Project in Electrical Engineering	3 (0-9-3)		
	EGEE Xxx	Elective in Communication and Computer	3 (3-0-6)	EGEE 45x	Elective in Electrical Energy II	3 (3-0-6)		
	EGEE 45x	Elective in Electrical Energy II	3 (3-0-6)	EGEE xxx	Engineering Elective II	3		
		General Education Elective	2		General Education Elective	2		
		Free Elective	3		Free Elective (2 courses)	6		
		<b>Total</b>	<b>14</b>		<b>Total</b>	<b>17</b>		
<b>Total 138 credit hours</b>				<b>Total 138 credit hours</b>				