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หลักสูตรวิศวกรรมศาสตรบัณฑิต สาขาวิชาวิศวกรรมไฟฟ้า

คณะวิศวกรรมศาสตร์
ภาควิชาวิศวกรรมไฟฟ้า

Plan A: Power System Engineering for both Project Track and Co-Op Track

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)
Total	19			Total	18		
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)
Total	19	Science and Environmental Literacy	3	Total	18	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 350	Electrical Power System Analysis	3 (3-0-6)	EGEE 350	Electrical Power System Analysis	3 (3-0-6)	
	EGEE 351	Electrical Machines	3 (3-0-6)	EGEE 351	Electrical Machines	3 (3-0-6)	
	EGEE 353	Engineering Electromagnetics	3 (3-0-6)	EGEE 353	Engineering Electromagnetics	3 (3-0-6)	
	EGEE 355	Electrical Machines Laboratory	1 (0-3-1)	EGEE 355	Electrical Machines Laboratory	1 (0-3-1)	
	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)	
	Total		20 (18-6-38)	Total		20 (18-6-38)	
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 330	Control System	3 (3-0-6)	EGEE 330	Control System	3 (3-0-6)	
	EGEE 342	Power Electronics	3 (3-0-6)	EGEE 342	Power Electronics	3 (3-0-6)	
	EGEE 352	Electrical System Design	3 (3-0-6)	EGEE 352	Electrical System Design	3 (3-0-6)	
	EGEE 354	Electrical Power Laboratory	1 (0-3-1)	EGEE 354	Electrical Power Laboratory	1 (0-3-1)	
	EGEE Xxx	Compulsory Elective in Electrical Engineering Safety	3 (3-0-6)	EGEE Xxx	Compulsory Elective in Electrical Engineering Safety	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 399	Electrical Engineering Training	3 (0-18-3)				
		General Education Electives (2 courses)	4			General Education Electives (2 courses)	4
	Total		22	Total		19	
4 / 1	EGEE 455	Renewable Energy	3 (3-0-6)	EGEE 400	Electrical Engineering Cooperative Training	7 (3-21-10)	
	EGEE 45x	Compulsory Elective in Power Engineering	3 (3-0-6)				
	EGEE 490	Project Seminar	1 (0-3-1)				
		General Education Elective	2				
		Free Elective	3				
	Total		12	Total		7 (3-21-10)	
4 / 2	EGEE 491	Capstone Project in Electrical Engineering	3 (0-9-3)	EGEE 455	Renewable Energy	3 (3-0-6)	
		General Education Elective (2 courses)	4 (2-4-6)	EGEE 491	Capstone Project in Electrical Engineering	3 (0-9-3)	
		Free Elective	3			General Education Elective (3 courses)	6
						Free Elective (2 courses)	6
	Total		10	Total		18	
Total 138 credit hours				Total 138 credit hours			