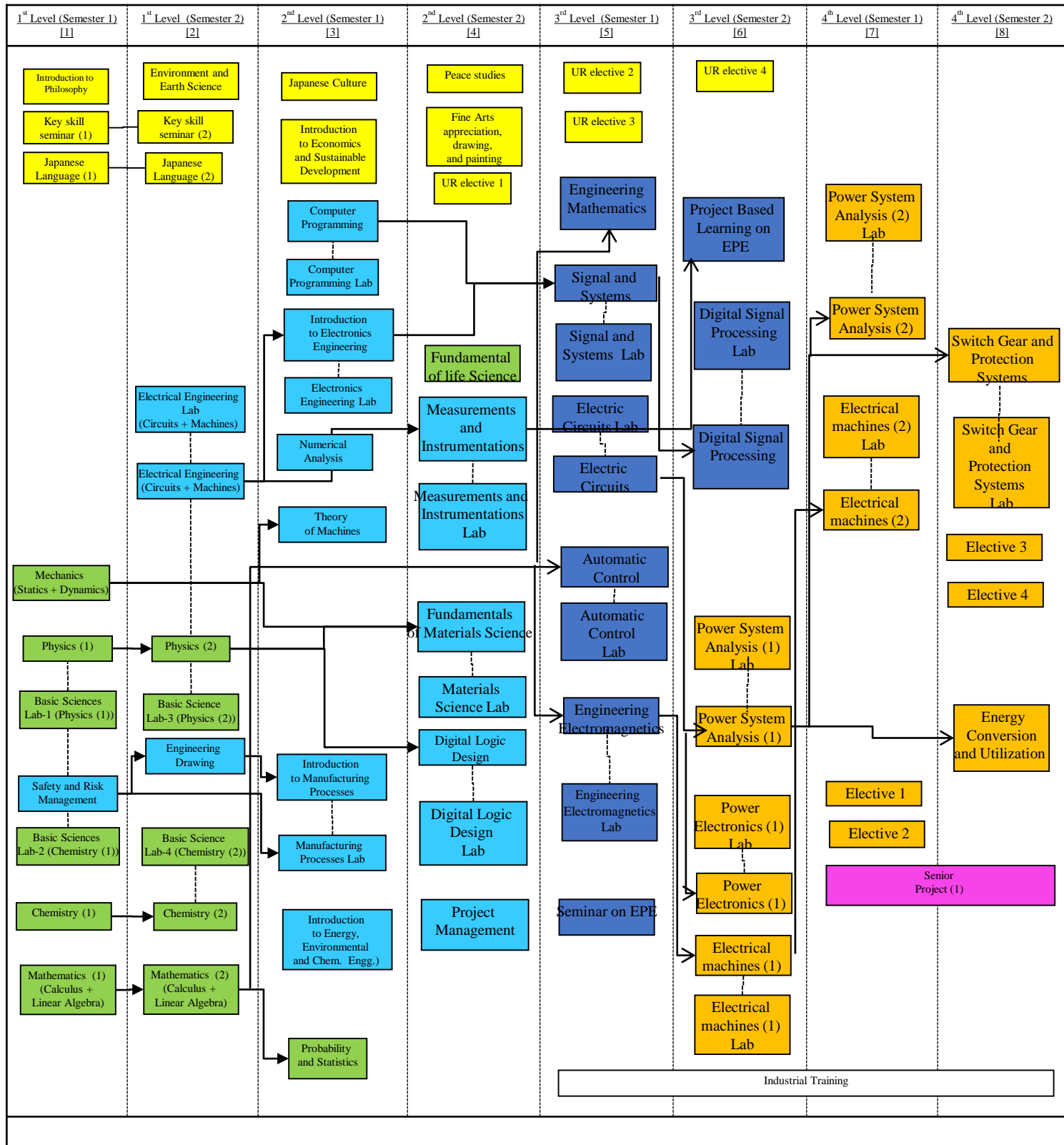


Course Program Flowchart for Undergraduate Course of Electrical Power Engineering- EPE



EPE Study Plan

level	Course Code	Course	Credits	credits
1	LRA 104	Introduction to Philosophy	2	20
	LRA 402	Key skill seminar (1)	2	
	LRA 101	Japanese Language (1)	1	
	MTH 111	Mathematics (1) (Calculus + Linear Algebra)	3	
	PHY 111	Physics (1)	3	
	CHM 111	Chemistry (1)	2	
	PHY 112	Basic Sciences Lab-1 (Physics (1))	1	
	CHM 112	Basic Sciences Lab-2 (Chemistry (1))	1	
	MCE 111	Mechanics (Statics + Dynamics)	3	
	IME 111	Safety and Risk Management	2	
2	LRA 102	Japanese Language (2)	1	21
	LRA 107	Key skill seminar (2)	2	
	LRA 201	Environment and Earth Science	2	
	MTH 121	Mathematics (2) (Calculus + Linear Algebra)	3	
	PHY 121	Physics (2)	3	
	CHM 121	Chemistry (2)	2	
	PHY 122	Basic Science Lab-3 (Physics (2))	1	
	CHM 122	Basic Science Lab-4 (Chemistry (2))	1	
	EPE 121	Electrical Engineering (Circuits + Machines)	2	
	EPE 122	Electrical Engineering Lab(Circuits + Machines)	1	
	IME 121	Engineering Drawing	3	
3	LRA 301	Japanese Culture	2	21
	LRA 201	Introduction to Economics and Sustainable Development	2	
	MTH 211	Probability and Statistics	2	
	CSE 211	Computer Programming	2	
	CSE 212	Computer Programming Lab	1	
	ECE 211	Introduction to Electronics Engineering	2	
	ECE 212	Electronics Engineering Lab	1	
	CPE 211	Introduction to Energy, Environmental and Chem. Eng.	3	
	CSE 213	Numerical Analysis	3	
	IME 211	Introduction to Manufacturing Processes	2	
	IME 212	Manufacturing Processes Laboratory	1	
4	LRA 202	Peace studies	2	19
	LRA 401	Fine Arts appreciation, drawing, and painting	2	
	LRA xxx	UR elective 1	2	
	BIO 121	Fundamentals of life Science	2	
	EPE 221	Measurements and Instrumentations	2	
	EPE 222	Measurements and Instrumentations Lab	1	
	MSE 221	Fundamentals of Materials Science	2	
	MSE 222	Materials Science Lab	1	
	IME 221	Project Management	2	
	ECE 221	Digital Logic Design	2	
	ECE 222	Digital Logic Design Lab	1	
5	LRA xxx	UR elective 2	2	19
	EPE 310	Seminar on EPE	2	
	MTE 324	Automatic Control	2	
	MTE 325	Automatic Control Lab	1	
	ECE 312	Electric Circuits	2	
	ECE 313	Electric Circuits Lab	1	
	ECE 314	Signal and Systems	2	
	ECE 315	Signal and Systems Lab	1	
	ECE 316	Engineering Mathematics	3	
	ECE 328	Engineering Electromagnetics	2	
	ECE 329	Engineering Electromagnetics Lab	1	
6	LRA xxx	UR elective 3	2	18
	LRA xxx	UR elective 4	2	
	EPE 320	Project Based Learning on EPE	2	
	EPE 321	Power System Analysis (1)	2	
	EPE 322	Power System Analysis (1) Lab	1	
	EPE 323	Power Electronics (1)	2	
	EPE 324	Power Electronics (1) Lab	1	
	EPE 325	Electrical machines (1)	2	
	EPE 326	Electrical machines (1)Lab	1	
	ECE 323	Digital Signal Processing	2	
	ECE 324	Digital Signal Processing Lab	1	
7	EPE411	Electrical machines (2)	2	16
	EPE 412	Electrical machines (2)Lab	1	
	EPE 413	Power System Analysis (2)	2	
	EPE 414	Power System Analysis (2) Lab	1	
	EPE 4xx	Elective 1	3	
	EPE 4xx	Elective 2	3	
	EPE 410	Senior Project (1)	4	
	EPE 421	Energy Conversion and Utilization	3	16
	EPE 422	Switch Gear and Protection Systems	2	
	EPE 423	Switch Gear and Protection Systems Lab	1	
	EPE 4xx	Elective 3	3	
	EPE 4xx	Elective 4	3	
	EPE 420	Senior Project (2)	4	
	EPE 450	Industrial Training (2 Modules)	3	
	Total		153	153

Course Type	Requirement	Color code in the study plan
1. Liberal Arts Course	University	
2. Basic Science Courses	Faculty	
3. Basic Engineering Courses	School	
4. Applied Engineering Courses.	General specialization	
5. Specialization courses	Specific (Program) specialization	
6. Senior graduation project		
7. Industrial training.		