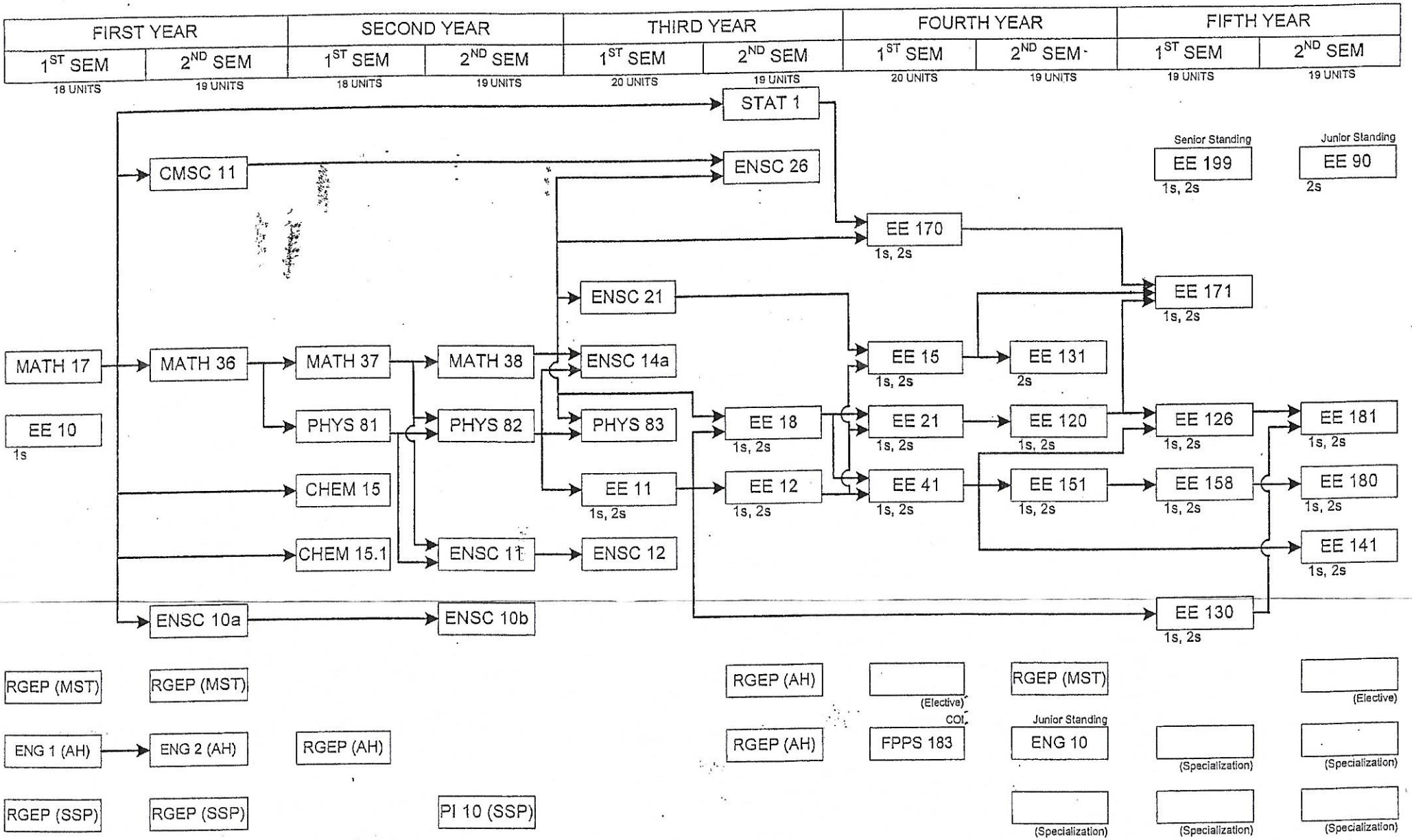
B. S. ELECTRICAL ENGINEERING CURRICULUM

Course Name	Course Title	Lecture Hours	Lab Hours	Units	Prerequisite(s)
FIRST YEAR					
1st semester					
EE 10	Introduction to Electrical Engineering	1	0	1	
MATH 17	Algebra and Trigonometry	5	0	5	
ENG 1 (AH)	College English	3	0	3	
RGEP (MST)	Mathematics, Science and Technology	3	0	3	
RGEP (SSP)	Social Science and Philosophy	3	0	3	
RGEP (SSP)	Social Science and Philosophy	3	0	3	
PE 1	Foundation to Physical Fitness	2	0	(2)	
NSTP	National Service Training Program			(1.5)	
	Subtotal	20+		18	
2nd Semester					
ENSC 10a	Engineering Graphics I	0	6	2	MATH 17
MATH 36	Mathematical Analysis I	5	0	5	MATH 17
CMSC 11	Introduction to Computer Science	2	3	3	MATH 17
ENG 2 (AH)	College Writing in English	3	0	3	
RGEP (MST)	Mathematics, Science and Technology	3	0	3	
RGEP (SSP)	Social Science and Philosophy	3	0	3	
PE 2	Sports	0	2	(2)	
NSTP	National Service Training Program			(1.5)	
	Subtotal	27+		19	
SECOND YEAR					
1st semester					
MATH 37	Mathematical Analysis II	5	0	5	MATH 36
CHEM 15	Fundamentals of Chemistry (Lecture)	3	0	3	MATH 17
CHEM 15.1	Fundamentals of Chemistry (Lab)	0	6	2	MATH 17
PHYS 81	Fundamental Physics I	4	3	5	MATH 36
RGEP (AH)	Arts and Humanities	3	0	3	
PE 2/3	Sports or Advance Course	0	2	(2)	
	Subtotal	26		18	
2nd Semester					
ENSC 10b	Engineering Graphics II	0	6	2	ENSC 10a
ENSC 11	Statics of Rigid Bodies	3	0	3	MATH 37 & PHYS 81
MATH 38	Mathematical Analysis III	3	0	3	MATH 37
PHYS 82	Fundamental Physics II	4	3	5	MATH 37 & PHYS 81
PI 10 (SSP)	The Life and Works of Jose Rizal	3	0	3	
RGEP (SSP)	Social Science and Philosophy	3	0	3	
PE 2	Sports or Advance Course	0	2	(2)	
	Subtotal	27		19	
THIRD YEAR					
1st semester					
EE 11	Fundamentals of Electrical Engineering I	3	3	4	PHYS 82
ENSC 12	Dynamics of Rigid Bodies	3	0	3	ENSC 11
ENSC 14a	Engineering Thermodynamics and Heat Transfer	4	3c*	5	MATH 38 & PHYS 82
ENSC 21	Mathematical Methods in Engineering	3	0	3	MATH 38
PHYS 83	Fundamental Physics III	4	3	5	MATH 38 & PHYS 82
	Subtotal	26		20	

Course Name	Course Title	Lecture Hours	Lab Hours	Units	Prerequisite(s)
THIRD YEAR					
2nd Semester					
EE 12	Fundamentals of Electrical Engineering II	3	3	4	EE 11
EE 18	Introduction to Electromagnetic Fields	3	0	3	MATH 38 & EE 11
ENSC 26	Computer Applications in Engineering	2	3	3	MATH 38 & CMSC 11
STAT 1	Elementary Statistics	2	3	3	MATH 17
RGEP (AH)	Arts and Humanities	3	0	3	
RGEP (AH)	Arts and Humanities	3	0	3	
	Subtotal	25		19	
FOURTH YEAR					
1st semester					
EE 15	Linear Systems Analysis	3	0	3	ENSC 21 & EE 12
EE 21	Fundamentals of Electronics	3	3	4	EE 12 & EE 18
EE 41	Electromechanical Energy Conversion	3	3	4	EE 12 & EE 18
EE 170	Signals and Noise in Communication Systems	3	0	3	MATH 38 & STAT 1
FPPS 183	Engineering Economic Analysis	2	3c*	3	COI
	Elective			3	
	Subtotal	23+		20	
2nd Semester					
EE 120	Digital Electronics	3	3	4	EE 21 or COI
EE 131	Control Systems Analysis	3	0	3	EE 15
EE 151	Fundamentals of Electrical Power Systems	3	0	3	EE 41
ENG 10	Writing of Scientific Papers	3	0	3	JR Standing
RGEP (MST)	Mathematics, Science and Technology	3	0	3	
	Specialization Course			3	
	Subtotal	18+		19	
FIFTH YEAR					
1st semester					
EE 126	Industrial Electronics	2	3	3	EE 41 & EE 120
EE 130	Fundamentals of Instrumentation	2	3	3	EE 11 or EE 1
EE 158	Electrical System Design	2	3	3	EE 151
EE 171	Fundamentals of Communication Systems	3	0	3	EE 15, 120 & 170
EE 199	Undergraduate Seminar	1	0	1	SR Standing
	Specialization Course			6	
	Subtotal	19+		19	
2nd Semester					
EE 181	Maintainability Engineering	2	3	3	EE 126 & EE 130
EE 90	Electrical Engineering Law, Ethics and Contracts	1	0	1	COI
EE 180	Estimation for Electrical Engineering Projects	3	0	3	EE 158
EE 141	Electrical Machines	3	0	3	EE 41
	Elective			3	
	Specialization Course			6	
	Subtotal	12+		19	
	TOTAL			190 units	

c* computation



FLOWCHART OF BS ELECTRICAL ENGINEERING CURRICULUM

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