

**BACHELOR of SCIENCE in ELECTRICAL ENGINEERING**  
**University of San Jose-Recoletos**  
**Magallanes St., Cebu City**  
**(Effective School Year 1998-1999)**

FIRST YEAR

FIRST SEMESTER

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITES</u>
	EM 112	Plane Trigonometry	3	None	None
	EM 113	College Algebra	4	None	None
	EPS 110	General Chemistry 1 lec	2	None	None
	EPS 112	General Chemistry 1 lab	1	None	EPS 110
	ES 110	Computer Orientation	1	None	None
	DRAW 111	Engineering Drafting 1	2	None	None
	ENGL 1	English Grammar & Composition 1	3	None	None
	THEO 1	The Creed	3	None	None
	PE 1	Physical Education 1	2	None	None
	MS/CWTS 1	Military Science/Civic Welfare Training Service 1	3	None	None
			<b>24.0</b>		

FIRST YEAR

SECOND SEMESTER

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITES</u>
	EM 120	Analytic Geometry	3	EM 112, EM 113	None
	EM 121	Solid Geometry & Mensuration	2	EM 112, EM 113	None
	EM 122	Differential Calculus	4	EM 112, EM 113	EM 120
	EPS 120	General Chemistry 2 lec	2	EPS 110, EPS 112	EPS 122
	EPS 122	General Chemistry 2 lab	1	EPS 110, EPS 112	EPS 121
	DRAW 121	Engineering Drafting 2	2	DRAW 111	None
	ENGL 2	English Grammar & Composition 2	3	ENGL 1	None
	THEO 2	The Commandments & Morals	3	THEO 1	None
	PE 2	Physical Education 2	2	PE 1	None
	MS/CWTS 2	Military Science/Civic Welfare Training Service 2	3	MS/CWTS 1	None
			<b>25.0</b>		

SECOND YEAR

FIRST SEMESTER

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITES</u>
	EM 211	Integral Calculus	4	EM 120, EM 121, EM 122	None
	EPS 211	Engineering Physics 1 lec	3	EM113, EM 112, EPS 120, EPS 122, DRAW 121	None
	EPS 212	Engineering Physics 1 lab	1	EM113, EM 112, EPS 120, EPS 122, DRAW 121	EPS 211
	ENGL 3e	Technical Report Writing	3	ENGL 2	None
	POLSCI 1	Phil. Govt. & the New Constitution including Public Service	3	None	None
	FIL 1	Sining ng Pakikipagtalastasan	3	None	None
	THEO 3	The Bible	3	THEO 2	None
	PE 3	Physical Education 3	2	PE 2	None
			<b>22.0</b>		

SECOND YEAR

SECOND SEMESTER

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITES</u>
	EM 221	Differential Equations	3	EM 211	None
	EPS 221	Engineering Physics 2 lec	3	EPS 211, EPS 212	None
	EPS 222	Engineering Physics 2 lab	1	EPS 211, EPS 212	EPS 221
	ES 213	Computer Fundamentals & Programming	3	ES 110, EM 211	None
	FIL 2	Pagbasa at Pagsulat sa Iba't-ibang Disiplina	3	FIL 1	None
	ENGL 3	Speech Improvement	3	ENGL 2	None
	THEO 4	The Sacraments	3	THEO 3	None
	PE 4	Physical Education 4	2	PE 3	None
			<b>21.0</b>		

THIRD YEAR

FIRST SEMESTER

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITES</u>
	EM 311	Advanced Engineering Math	3	EM 221	None
	ME 311	Thermodynamics	3	EPS 221, EPS 222 & EM 211	None
	MECH 311	Engineering Mechanics	5	EM 211, EPS 211, EPS 212	None
	PHILO 1	Logic	3	None	None
	EE 311	Circuits 1 lec	3	EM 221, EPS 221, EPS 222	None
	EE 312	Circuits 1 lab	1	EM 221, EPS 221, EPS 222	EE 311
	EE 315	Electromagnetics	3	EM 221, EPS 221, EPS 222	EE 311
			<b>21.0</b>		

THIRD YEAR

SECOND SEMESTER

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITES</u>
	EM 313	Probability and Statistics	3	EM 211	None
	MECH 321	Fluid Mechanics	3	MECH 311	None
	MECH 322	Strength of Materials	3	MECH 311	None
	ECE 313	Electronics 1 lec	3	EE 311, EE 315	None
	ECE 314	Electronics 1 lab	1	EE 311, EE 315	ECE 313
	CMPE 325	Computer Systems	3	ES 213	None
	EE 321	Circuits 2 lec	3	EE 311, EE 312	None
	EE 322	Circuits 2 lab	1	EE 311, EE 312	EE 321
			<b>20.0</b>		

FOURTH YEAR

FIRST SEMESTER

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITES</u>
	PSYCHO 1	General Psychology	3	None	None
	ECON 1	Principles of Economics	3	None	None
	ES 311	Engineering Economy	3	EM 211	None
	ECE 323	Electronics 2 lec	3	ECE 313, ECE 314	None
	ECE 324	Electronics 2 lab	1	ECE 313, ECE 314	ECE 323
	ECE 411	Principles of Communication	3	None	ECE 323, ECE 324
	EE 410	Engineering Materials	2	EPS 120	None
	EE 411	Electro-Mechanical Conversion lec	3	EE 321, EE 322	None
	EE 412	Electro-Mechanical Conversion lab	1	EE 321, EE 322	EE 411
			<b>22.0</b>		

FOURTH YEAR

SECOND SEMESTER

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITES</u>
	RIZAL	Life and Works of Rizal	3	None	None
	ES 410	Engineering Management	3	4 <sup>th</sup> year standing	None
	EE 413	Logic Circuits & Switching Theory	3	ECE 323, ECE 324	None
	ES 421	Numerical Methods in EE	3	EE 321, EM 311	
	EE 421	Electrical Machine lec	3	EE 411, EE 412	None
	EE 422	Electrical Machine lab	1	EE 411, EE 412	EE 421
	EE 425	Power Systems	3	EE 411, EE 412	None
	EE 426	Control Systems	3	EE 321, EE 322	None
			<b>22.0</b>		

FIFTH YEAR

FIRST SEMESTER

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITES</u>
	EE 511	Industrial and Power Electronics	3	EE 411, EE 412, ECE 323, ECE 324	None
	EE 512	Electrical Systems Design 1	4	EE 421, EE 422, EE 425	None
	EE 514	Computer Applications in EE	3	5 <sup>th</sup> year standing	None
	EE 515	Seminars and Field Trips	2	5 <sup>th</sup> year standing	None
	EE 517	Instrumentation, Measurement and Control	3	EE 421, EE 422, EE 425	None
	EEL 1	EE Elective 1	3	Depends on the Elective Subject Taken	None
	EEL 2	EE Elective 2	3	Depends on the Elective Subject Taken	None
			<b>21.0</b>		

FIFTH YEAR

SECOND SEMESTER

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITES</u>
	ES 411	Environmental Science	3	EPS 120, EPS 121	None
	EE 520	EE Laws, Contracts, & Ethics	3	5 <sup>th</sup> year standing	None
	EE 522	Electrical Systems Design 2	4	EE 512	None
	EE 524	Safety Engineering	2	5 <sup>th</sup> year standing	None
	EEL 3	EE Elective 3	3	Depends on the Elective Subject Taken	None
	EEL 4	EE Elective 4	3	Depends on the Elective Subject Taken	None
	EEL 5	EE Elective 5	3	Depends on the Elective Subject Taken	None
			<b>21.0</b>		

LIST OF ELECTIVES:

- \* EE 428 – Advanced Logic Circuit Design
- \* EE 519 – Troubleshooting & Repairs
- \* EE 523 – EE Project Study & Design
- \* EE 529 – On-the-Job Training

PREREQUISITES

- EE 413
- 5<sup>th</sup> year standing
- EE 512
- EE 515

PREREQUISITES

- \* EE 513 – Electrical Machine Design
- \* EE 521 – Advanced Power Systems
- \* EE 528 – Digital Instrumentation

- EE 421, EE 422
- EE 425
- EE 428

<b>ID NO.</b>	
<b>NAME</b>	
<b>ADVISER</b>	
<b>BATCH NO.</b>	