

BACHELOR OF SCIENCE IN ELECTRONICS AND COMMUNICATIONS ENGINEERING
UNIVERSITY OF SAN JOSE-RECOLETOS
MAGALLANES ST., CEBU CITY
(Effective 1998-1999)

ID NO.	
NAME	
ADVISER	
BATCH NO.	

FIRST YEAR FIRST SEMESTER

FG	COURSE NO.	DESCRIPTION	UNITS	PRE-REQUISITES	CO-REQUISITES
	EM 112	Plane Trigonometry	3	None	None
	EM 113	College Algebra	4	None	None
	EPS 110	General Chemistry 1 (lec)	2	None	EPS 112
	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
	Re Ed 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
			24		

FIRST YEAR SECOND SEMESTER

FG	COURSE NO.	DESCRIPTION	UNITS	PRE-REQUISITES	CO-REQUISITES
	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 120
	DRAW 121	Engineering Drafting 2 (CAD)	2	DRAW 111, ES 110	None
	ENGL 2	English Grammar & Composition 2	3	ENGL 1	None
	Re Ed 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
			25		

SECOND YEAR FIRST SEMESTER

FG	COURSE NO.	DESCRIPTION	UNITS	PRE-REQUISITES	CO-REQUISITES
	EM 211	Integral Calculus	4	EM 120, EM 121, EM 122	None
	EPS 211	Engineering Physics 1 lec	3	EM 113, EM 112, EPS 120, EPS 122, DRAW 121	EPS 212
	EPS 212	Engineering Physics 1 lab	1	EM 113, EM 112, EPS 120, EPS 122, DRAW 121	EPS 211
	ENGL 3e	Technical Report Writing	3	ENGL 2	None
	Re Ed 3	The Bible	3	THEO 2	None
	FIL 1	Sining ng Pakikipagtalastasan	3	None	None
	PHILO 1	Logic	3	None	None
	PE 3	Physical Education 3	2	PE 2	None
			22		

SECOND YEAR SECOND SEMESTER

FG	COURSE NO.	DESCRIPTION	UNITS	PRE-REQUISITES	CO-REQUISITES
	EM 221	Differential Equations	3	EM 211	None
	EPS 221	Engineering Physics 2 lec	3	EPS 211, EPS 212	EPS 222
	EPS 222	Engineering Physics 2 lab	1	EPS 211, EPS 212	EPS 221
	GE 322	Taxation and Land Reform	3	None	None
	FIL 2	Pagbasa at Pagsulat sa Iba't-ibang Disiplina	3	FIL 1	None
	ENGL 3	Speech Improvements	3	ENGL 2	None
	Re Ed 4	Sacraments	3	THEO 3	None
	POLSC 1	Phil. Govt. & the New Constitution including Public Service	3	None	None
	PE 4	Physical Education 4	2	PE 3	None
			24		

THIRD YEAR FIRST SEMESTER

FG	COURSE NO.	DESCRIPTION	UNITS	PREREQUISITES	CO-REQUISITES
	EM 313	Probability and Statistics	3	EM 211	None
	EM 312	ECE Mathematics	3	EM 221	None
	EE 311	Circuits 1 (lec)	3	EM 221, EPS 221, EPS 222	EM 312, EE 312
	EE 312	Circuits 1 (lab)	1	EM 221, EPS 221, EPS 222	EE 311
	ECE 313	Electronics 1 (lec)	3	EM 221, EPS 221, EPS 222	EE 311, EE 312, ECE 314
	ECE 314	Electronics 1 (lab)	1	EM 221, EPS 221, EPS 222	EE 311, EE 312, ECE 313
	GE 320	Material Science	3	EPS 221, EPS 222	None
	MECH 311	Engineering Mechanics	5	EM 211, EPS 211, EPS 212	None
			22		

THIRD YEAR

SECOND SEMESTER

FG	COURSE NO.	DESCRIPTION	UNITS	PRE-REQUISITES	CO-REQUISITES
	ES 213	Comp. Fundamentals & Prog.	3	ES 110 & EM 211	None
	EE 315	Engineering Electromagnetics	3	EPS 221, EPS 222	EE 311
	EE 321	Circuits 2 lec	3	EE 311, EE 312, EM 312	EE 322
	EE 322	Circuits 2 lab	1	EE 311, EE 312, EM 312	EE 321
	ECE 323	Electronics 2 lec	3	ECE 313, ECE 314	EE 321, EE 322, ECE 324
	ECE 324	Electronics 2 lab	1	ECE 313, ECE 314	ECE 323
	ECE 325	Signals, Spectra and Signal Processing (lec)	3	EM 312, EM 313	None
	ECE 326	Signals, Spectra and Signal Processing (lab)	1	EM 312, EM 313	ECE 325
	RIZAL	Life and Works of Rizal	3	None	None
	PSYCHO	General Psychology	3	None	None
			24		

FOURTH YEAR

FIRST SEMESTER

FG	COURSE NO.	DESCRIPTION	UNITS	PRE-REQUISITES	CO-REQUISITES
	ES 311	Engineering Economy	3	EM 211	None
	EE 411	Electro-Mechanical Conversion (lec)	3	EE 321, EE 322, EE 315	None
	EE 412	Electro-Mechanical Conversion (lab)	1	EE 321, EE 322, EE 315	EE 411
	ME 311	Thermodynamics	3	EPS 221, EPS 222, EM 211	None
	MECH 322	Strength of Materials	3	MECH 311	None
	ECE 411	Communications Theory 1 (lec)	3	ECE 323, ECE 324, ECE 325, ECE 326, EM 313	None
	ECE 412	Communications Theory 1 (lab)	1	ECE 323, ECE 324, ECE 325, ECE 326, EM 313	ECE 411
	ECE 413	Electronics 3 (lec)	3	ECE 323, ECE 324	ECE 411, ECE 412
	ECE 414	Electronics 3 (lab)	1	ECE 323, ECE 324	ECE 413
			21		

FOURTH YEAR

SECOND SEMESTER

FG	COURSE NO.	DESCRIPTION	UNITS	PR-EREQUISITES	CO-REQUISITES
	ES 410	Engineering Management	3	ES 311, 4 th year level	None
	ES 411	Environmental Science	3	EPS 120, EPS 122, 4 th yr. Level	None
	ECE 421	Communications Theory 2 (lec)	3	ECE 411, ECE 412	ECE 422
	ECE 422	Communications Theory 2 (lab)	1	ECE 411, ECE 412	ECE 421
	ECE 423	Industrial Electronics (lec)	3	EE 411, EE 412, ECE 413, ECE 414	None
	ECE 424	Industrial Electronics (lab)	1	EE 411, EE 412, ECE 413, ECE 414	ECE 423
	ECE 425	Logic Circuits & Switching Theory (lec)	3	ECE 413, ECE 414	ECE 426
	ECE 426	Logic Circuits & Switching Theory (lab)	1	ECE 413, ECE 414	ECE 425
	ECE Elect 1	Professional Elective 1	3	Depends on the Elective subject taken	
			21		

FIFTH YEAR

FIRST SEMESTER

FG	COURSE NO.	DESCRIPTION	UNITS	PRE-REQUISITES	CO-REQUISITES
	ECE 511	Microprocessor Systems (lec)	3	ECE 425, ECE 426, ES 213	ECE 512
	ECE 512	Microprocessor Systems (lab)	1	ECE 425, ECE 426, ES 213	ECE 511
	ECE 513	Computer Applications (lec)	3	5 th year standing	ECE 514
	ECE 514	Computer Applications (lab)	1	5 th year standing	ECE 513
	ECE 515	Communications Theory 3 (lec)	3	ECE 421, ECE 422	ECE 516
	ECE 516	Communications Theory 3 (lab)	1	ECE 421, ECE 422	ECE 515
	ECE 517	Control Systems (lec)	3	5 th year standing, EE 411, EE 412	ECE 518
	ECE 518	Control Systems (lab)	1	5 th year standing, EE 411, EE 412	ECE 517
	ECE 519	Communications Theory 4	3	ECE 421, ECE 422	ECE 515, ECE 516
	ECE Elect 2	Professional Elective 2	3	Depends on the Elective subject taken	
			22		

FIFTH YEAR

SECOND SEMESTER

FG	COURSE NO.	DESCRIPTION	UNITS	PRE-REQUISITES	CO-REQUISITES
	ECE 521	ECE Laws, Contracts & Ethics	2	Graduating Student	None
	ECE 522	Seminars & Field Trips	1	Graduating Student	None
	ECE 523	Broadcast Engineering & Acoustics (lec)	3	ECE 515, ECE 516	ECE 524
	ECE 524	Broadcast Engineering & Acoustics (lab)	1	ECE 515, ECE 516	ECE 523
	ECE 525	Data Communications	3	ECE 515, ECE 516	None
	ECE 527	Communications Theory 5 (lec)	3	ECE 515, ECE 516, ECE 519	None
	ECE 528	Communications Theory 5 (lab)	1	ECE 515, ECE 516, ECE 519	ECE 527
	ECE 529	Safety Engineering	2	Preferably Graduating Student	None
	PRAC	Practicum/Project Study	3	Fifth Year Standing	None
	ECE Elect 3	Professional Elective 3	3	Depends on the Elective subject taken	
			22		

List of Technical Electives:

- Power Electronics	Pre-requisites: ECE 413, ECE 414, EE 411, EE 412	- Navigational Aids	Pre-requisites: ECE 411, ECE 412
- I/O & Memory Systems	ECE 425, ECE 426	- Data Struc. & Algo. Analysis	ES 213
- Operating Systems Engineering	Structure of Programming Language	- Comp. Systems Org, w/Assembly Language	ES 213
- Instrumentation & Control	ECE 517, ECE 518	- Computer Systems	ES 213
- Comp. Systems Architecture	ECE 425, ECE 426	- Structure of Prog. Language	Data Structure & Algo. Analysis