

BACHELOR of SCIENCE in MECHANICAL ENGINEERING

University of San Jose-Recoletos
Magallanes St., Cebu City
(Effective School Year 1998-1999)

STUDENT NAME: _____

STUDENT NO. : _____

FIRST YEAR

FIRST SEMESTER

FINAL GRADE	COURSE NO.	DESCRIPTION	UNITS	PREREQUISITES	COREQUISITE
	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
			24.0		

FIRST YEAR

SECOND SEMESTER

FINAL GRADE	COURSE NO.	DESCRIPTION	UNITS	PREREQUISITES	COREQUISITE
	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	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
			25.0		

SECOND YEAR

FIRST SEMESTER

FINAL GRADE	COURSE NO.	DESCRIPTION	UNITS	PREREQUISITES	COREQUISITE
	EM 211	Integral Calculus	4	EM 120, EM 121, EM 122	None
	EPS 211	Engineering Physics 1 lec	3	EM113, EM112, EPS120, EPS122, DRAW121	None
	EPS 212	Engineering Physics 1 lab	1	EM113, EM112, EPS120, EPS122, DRAW121	EPS 211
	ECON 1	Basic Economics with TLR	3	None	None
	PHILO 1	Logic	3	None	None
	ENGL 3e	Technical Report Writing	3	ENGL 1 & ENGL 2	None
	THEO 3	The Bible	3	THEO 1 & THEO 2	None
	PE 3	Physical Education 3	2	PE 1 & PE 2	None
			22.0		

SECOND YEAR

SECOND SEMESTER

FINAL GRADE	COURSE NO.	DESCRIPTION	UNITS	PREREQUISITES	COREQUISITE
	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
	ES 411	Introduction to Environmental Engineering	3	EPS 120, EPS 121	None
	ENGL 3	Speech Improvement	3	ENGL 1, ENGL 2 & ENGL 3e	None
	THEO 4	The Sacraments	3	THEO 1, THEO 2 & THEO 3	None
	PE 4	Physical Education 4	2	PE 1, PE 2 & PE 3	None
			21.0		

THIRD YEAR

FIRST SEMESTER

FINAL GRADE	COURSE NO.	DESCRIPTION	UNITS	PREREQUISITES	COREQUISITE
	HIST 1	Philippine History	3	None	None
	EM 311	Adv. Eng'g. Math w/ Numerical Methods	3	EM 221	None
	MECH 311	Engineering Mechanics	5	EM 211, EPS 211, EPS 212	None
	EE 310	Elementary Electrical Engineering (lec)	2	EM 211, EPS 221, EPS 222	None
	EE 312	Elementary Electrical Engineering (lab)	1	EM 211, EPS 221, EPS 222	EE 310
	ME 311	Thermodynamics 1	3	EPS 221, EPS 222 & EM 211	None
	ME 312	Machine Elements 1	3	DRAW 121, EPS 221, EPS 222	None
	SHOP 1	Workshop Theory and Practice	2	EM 121, DRAW 121	None
			22.0		

THIRD YEAR**SECOND SEMESTER**

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITE</u>
	EM 313	Probability & Stat. w/ Methods of Research	2	EM 211	None
	MECH 321	Fluid Mechanics	3	MECH 311	None
	MECH 322	Strength of Materials	3	MECH 311	None
	ME 321	Thermodynamics 2	3	ME 311	None
	ME 322	Machine Elements 2	3	ME 312	None
	ME 323	Material Science Engineering & Testing	4	MECH 311	MECH 322
	ME 324	Internal Combustion Engines	2	ME 311	None
	SHOP 2	Machine Shop Theory & Practice	2	SHOP 1	None
			22.0		

FOURTH YEAR**FIRST SEMESTER**

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITE</u>
	PSYCHO 1	General Psychology	3	None	None
	POL SC 1	Phil. Government & the New Constitution including Public Service	3	None	None
	FIL 1	Sining ng Pakikipagtalastasan	3	None	None
	ECE 311	Basic Electronics (lec)	2	EE 310 & EE 312	None
	ECE 314	Basic Electronics (lab)	1	EM 221, EPS 222, EPS 221 & ME 323	None
	ME 411	Heat Transfer	2	ME 321	None
	ME 412	M.E. Laboratory 1	2	ME 321	None
	ME 413	Machine Design 1	4	ME 322, ME 323, SHOP 2, MECH 322	None
			20.0		

FOURTH YEAR**SECOND SEMESTER**

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITE</u>
	FIL 2	Pagbasa at Pagsulat sa Ibat-ibang Disiplina	3	FIL 1	None
	RIZAL	Life and Works of Rizal	3	None	None
	ES 311	Engineering Economy	3	EM 211	None
	EE 420	DC and AC Machinery	4	EE 310, EE 312	None
	ME 421	Refrigeration Engineering	3	ME 411	None
	ME 422	M.E. Laboratory 2	2	ME 324, ME 412	None
	ME 423	Machine Design 2	4	ME 413	None
			22.0		

FIFTH YEAR**FIRST SEMESTER**

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITE</u>
	ES 410	Engineering Management	2	4 th year level	None
	EE 517	Instrumentation and Control Engineering	3	EE 420	None
	MECH 511	Fluid Machinery	3	MECH 321	None
	ME 512	M.E. Laboratory 3	2	ME 422	None
	ME 513	Air Conditioning Design	2	ME 421	None
	ME 515	Vibration Engineering	2	ME 423	None
	ME 516	Indtl. Processes & Plant Inspection/OJT	4	5 th year standing	None
	ME Elect 1	Professional Technical Elective *	3	5 th year standing	None
			21.0		

FIFTH YEAR**SECOND SEMESTER**

<u>FINAL GRADE</u>	<u>COURSE NO.</u>	<u>DESCRIPTION</u>	<u>UNITS</u>	<u>PREREQUISITES</u>	<u>COREQUISITE</u>
	ME 520	M.E. Laws, Contracts and Ethics	2	5 th year standing	None
	ME 521	Industrial Plant Design	4	ME 516	None
	ME 524	Power Plant Design	6	ME 512, MECH 511	None
	ME 526	Safety Engineering	2	5 th year standing	None
	ME 527	M.E. Computer Applications	2	5 th year standing	None
	ME Elect 2	Professional Technical Elective *	3	5 th year standing	None
			19.0		

LIST OF ELECTIVES:

- * ME 510 – Power Plant Operation and Maintenance
- * ME 518 – Tool Design
- * ME 519 – Industrial Refrigeration
- * ME 522 – Mechanical Engineering Equipment
- * ME 525 – Alternative Energy Sources
- * ME 528 – Industrial Pneumatics

ADVISER : _____