



**UNIVERSITY OF PERPETUAL HELP SYSTEM DALTA**  
 Pamplona, Las Piñas City  
**COLLEGE OF ENGINEERING**



**FIVE YEAR ENGINEERING CURRICULUM**  
**B.S. IN COMPUTER ENGINEERING**  
**EFFECTIVE SCHOOL YEAR 2001 - 2002**

**FIRST YEAR - FIRST SEMESTER**

COURSE NO.	COURSE DESCRIPTION	LEC (hrs)	LAB (hrs)	UNITS	
_____	Math 114	College Algebra	4	0	4
_____	Math 113	Plane & Spherical Trigonometry	3	0	3
_____	Engl 100	English Plus	(2)	0	(2)
_____	Chem 113	Gen. & Inorganic Chem. 1 (lec)	3	0	3
_____	Chem 113L	Gen. & Inorganic Chem. 1 (lab)	0	3	1
_____	Draw 111	Engineering Drawing 1	0	3	1
_____	PE 100	Physical Fitness	0	2	2
_____	FCL 100	Filipino Christian 1	3	0	3
_____	Hum 1	Fundamentals of Logic	3	0	3
_____	NSL		-	-	<u>(3)</u>
			16(2)	8	20 (3)

**FIRST YEAR - SECOND SEMESTER**

_____	Math 123	Plane and Solid Analytic Geometry	3	0	3
_____	Math 122	Solid Mensuration	2	0	2
_____	Engl 101	Communication Skills	3	0	3
_____	Chem 123	Gen. & Inorganic Chem. 2 (lec)	3	0	3
_____	Chem 123L	Gen. & Inorganic Chem. 2 (lab)	0	3	1
_____	Draw 121	Engineering Drawing 2	0	3	1
_____	PE 200	Rhythmics	0	2	2
_____	Soc Sci 003	Psychology	3	0	3
_____	FCL 200	Filipino Christian 2	3	0	3
_____	NSL 2		-	-	<u>(3)</u>
			17	8	21 (3)

**SECOND YEAR - FIRST SEMESTER**

_____	Math 215	Differential Calculus	5	0	5
_____	Phys 213	Physics 1 (lec)	3	0	3
_____	Phys 213L	Physics 1 (lab)	0	3	1
_____	Engl 200	Technical Report Writing	3	0	3
_____	CS 002	Computer Fund. & Programming (lec)	2	0	2
_____	CS 002L	Computer Fund. & Programming (lab)	0	3	1
_____	Fil 113	Sining ng Pakikipagtalastasan	3	0	3
_____	PE 300	Ind. / Dual Sports	0	2	2
_____	FCL 300	Filipino Christian 3 (Hum. 2)	3	0	3
_____	Draw 211	Engineering Drawing 3	0	3	1
			19	11	24

**SECOND YEAR - SECOND SEMESTER**

_____	Math 225	Integral Calculus	5	0	5
_____	Phys 223	Physics 2 (lec)	3	0	3
_____	Phys 223L	Physics 2 (lab)	0	3	1
_____	Engl 223	Public Speaking	3	0	3
_____	Fil 123	Panitikang Pilipino	3	0	3
_____	PE 400	Team Sports	0	2	2
_____	FCL 400	Filipino Christian 4	3	0	3
_____	NC 203	Phil. Gov't. & New Constitution	3	0	3
			20	5	23

### THIRD YEAR - FIRST SEMESTER

COURSE NO.	COURSE DESCRIPTION	LEC (hrs)	LAB (hrs)	UNITS	
_____	Mech 315	Engineering Mechanics	5	0	5
_____	Math 313	Differential Equations	3	0	3
_____	EE 311	Electrical Circuits 1 (lec)	3	0	3
_____	EE 311L	Electrical Circuits 1 (lab)	0	3	1
_____	Rizal 003	Rizal's Life, Works and Writings	3	0	3
_____	Hum 3	Development of Western Thought	3	0	3
_____	EE 333	Electromagnetics	3	0	3
_____	CpE 312	Safety Engineering	2	0	2
_____	FCL 500	The Perpetualite: The Achiever	<u>3</u>	<u>0</u>	<u>3</u>
			25	3	26

### THIRD YEAR - SECOND SEMESTER

_____	Mech 323	Strength of Materials	3	0	3
_____	Stat 003	Methods of Research w/ Prob. & Stat.	3	0	3
_____	EE 321	Electrical Circuits 2 (lec)	3	0	3
_____	EE 321L	Electrical Circuits 2 (lab)	0	3	1
_____	ECE 323	Electronics 1 (lec)	3	0	3
_____	ECE 323L	Electronics 1 (lab)	0	3	1
_____	CpE 324	Data Structures & Algorithms Analysis (lec)	3	0	3
_____	CpE 324L	Data Structures & Algorithms Analysis (lab)	0	3	1
_____	LRT 003	Land Reform and Taxation	3	0	3
_____	CE 323	Environmental Science and Management	3	0	3
_____	FCL 600	The Perpetualite & Society	<u>3</u>	<u>0</u>	<u>3</u>
			24	9	27

### FOURTH YEAR - FIRST SEMESTER

_____	ECE 343	Logic Circuits and Switching Theory (lec)	3	0	3
_____	ECE 343L	Logic Circuits and Switching Theory (lab)	0	3	1
_____	Math 323	Advanced Eng'g. Math w/ Numerical Methods	3	0	3
_____	CpE 403	Materials Science	3	0	3
_____	CpE 414	Computer Systems Organization w/ Assembly Language	3	0	3
_____	CpE 414L	Computer Systems Organizations w/ Assembly Language	0	3	1
_____	CpE 413	Structure of Programming Languages	3	0	3
_____	Eecon 003	Engineering Economy	3	0	3
_____	ECE 413	Electronics 2 (lec)	3	0	3
_____	ECE 413L	Electronics 2 (lab)	<u>0</u>	<u>3</u>	<u>1</u>
			21	9	24

### FOURTH YEAR - SECOND SEMESTER

_____	Eman 003	Engineering Management	3	0	3
_____	CpE 424	Advanced Logic Circuits Design (lec)	3	0	3
_____	CpE 424L	Advanced Logic Circuits Design (lab)	0	3	1
_____	CpE 423	Computer Systems Architecture	3	0	3
_____	ECE 422	Principles of Communication	3	0	3
_____	CpE 434	Operating Systems (lec)	3	0	3
_____	CpE 434L	Operating Systems (lab)	0	3	1
_____	Soc. Sci. 403	Sociology w/ Family Planning	3	0	3
_____	ME 413	Thermodynamics	<u>3</u>	<u>0</u>	<u>3</u>
			21	6	23

### FIFTH YEAR - FIRST SEMESTER

_____	ECE 463	Microprocessor Systems (lec)	3	0	3
_____	ECE 463L	Microprocessor Systems (lab)	0	3	1
_____	CpE 513	I / O and Memory System	3	0	3
_____	ECE 573	Data Communications	3	0	3
_____	EE 423	Control Systems	3	0	3
_____	CpE 514	Elective 1 : Software Engineering	3	0	3
_____	CpE 511	Seminars and Field Trips	0	3	1
_____	CpE 512	Practicum (OJT)	0	3	1
_____	CpE 515	Design Project (Feasibility Study)	<u>1</u>	<u>3</u>	<u>2</u>
			16	12	20

### FIFTH YEAR - SECOND SEMESTER

_____	CpE 523	Computer Networks	3	0	3
_____	CpE 515A	Design Project (Electronics Design)	0	3	1
_____	CpE 524	Elective 2 : Digital Control Systems	3	0	3
_____	CpE 525	Elective 3 : Artificial Intelligence	3	0	3
_____	CpE 526	Elective 4 : Theory of Computing	<u>2</u>	<u>0</u>	<u>2</u>
			11	3	12