

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
EFFECTIVE FIRST SEMESTER SCHOOL YEAR 2013 - 14

FIRST YEAR - FIRST SEMESTER

Course No.	GRADE	Descriptive Title	Lec (hrs)	Lab (hrs)	Units	Pre Requisite
Math 111		College Algebra	3		3	
Math 112		Plane & Spherical Trigonometry	3		3	
Chem 111		General Chemistry	3	3	4	
Draw 111		Engineering Drawing	0	3	1	
Engl 11		Study & Thinking Skills	3		3	
Fil 11		Komunikasyon sa Akademikong Filipino	3		3	
CpE 111		Computer Fundamentals	2	3	3	
Hum 11		Logic & Critical Thinking	3		3	
PE 11		Physical Fitness & Self Testing Activities	2		2	
NSTP 11		National Service & Training Program 1	3		3	
Total Units					<u>28</u>	

FIRST YEAR - SECOND SEMESTER

Course No.	GRADE	Descriptive Title	Lec (hrs)	Lab (hrs)	Units	Pre Requisite
Math 121		Advanced Algebra	2		2	Math 111
Math 122		Analytic Geometry	5		3	Math 112
CpE 121		Integrated Application Software	2	3	3	CpE 111
Math 123		Solid Mensuration	2		2	Math 111
Phys 121		Engineering Physics 1	3	3	4	Math 111, 112
Engl 121		Writing in the Discipline	3		3	Engl 111
Fil 121		Pagbasa at Pagsulat Tungo sa Pananaliksik	3		3	Fil 11
PE 12		Rhythmic Activities	2		2	PE 11
NSTP 12		Military Science/CWTS	3		3	NSTP 11
Total Units					<u>25</u>	

Competency Assessment: PC OPERATION NC II

SECOND YEAR - FIRST SEMESTER

Course No.	GRADE	Descriptive Title	Lec (hrs)	Lab (hrs)	Units	Pre Requisite
Math 211		Discrete Mathematics	3		3	Math 122
Math 212		Differential Calculus	3		3	Math 122
CpE 211		Computer Programming 1 (Fund)	2	3	3	CpE 111
Phys 211		Engineering Physics 2	3	3	4	Phys 121
Engl 211		Speech Communication	3		3	Engl 121
Soc Sc 111		General Psychology	3		3	
CpE 212		Operating System	3	3	4	CpE 111
PE 13		Individual and Dual Sports	2		2	PE 12
Total Units					<u>25</u>	

SECOND YEAR - SECOND SEMESTER

Course No.	GRADE	Descriptive Title	Lec (hrs)	Lab (hrs)	Units	Pre Requisite
CpE 221		Microcomputer Hardware Fundamentals & Servicing	2	3	3	CpE 212
CpE 222		Computer Networks & Security	2	3	3	CpE 212
CpE 223		Computer Programming 2 (Structured)	2	3	3	CpE 211
Math 221		Integral Calculus	4		4	Math 212
Hum 221		Art Appreciation	3		3	
Soc Sc 221		Society & Culture w/ Family Planning	3		3	
Math 222		Probability & Statistics	3		3	Math 111
PE 14		Team Sports	2		2	
Total Units					<u>24</u>	

Competency Assessment: MICROCOMPUTER HARDWARE SERVICING NC II
DIPLOMA IN COMPUTER TECHNOLOGY

THIRD YEAR - FIRST SEMESTER

Course No.	GRADE	Descriptive Title	Lec (hrs)	Lab (hrs)	Units	Pre Requisite
CpE 311		Computer Aided Drafting	2	3	3	CpE 121
CpE 312		Engineering Economy & Accounting	3		3	Math 111
CpE 313		Circuits 1	3	3	4	Phys 211
CpE 314		Electronics 1	3	3	4	Phys 211
Math 311		Differential Equations	3		3	Math 221
CpE 315		Statics & Dynamics of Rigid Bodies	5		5	Phys 211
CpE 316		Data Structures and Algorithm Analysis	2	3	3	CpE 223
Total Units					<u>25</u>	

THIRD YEAR - SECOND SEMESTER

Course No.	GRADE	Descriptive Title	Lec (hrs)	Lab (hrs)	Units	Pre Requisite
CpE 321		Mechanics of Deformable Bodies	3		3	CpE 315
CpE 322		Electronics 2	3	3	4	CpE 314
CpE 323		Logic Circuit & Switching Theory	3	3	4	CpE 314
CpE 324		Circuits 2	3	3	4	CpE 313
CpE 325		Computer System Organization w/ Assembly Language	2	3	3	CpE 316
Hum 13		Philosophy of Man	3		3	
CpE Elec 1		Elective 1: Online Technology	2	3	3	CpE 223
Total Units					<u>24</u>	

FOURTH YEAR - FIRST SEMESTER

Course No.	GRADE	Descriptive Title	Lec (hrs)	Lab (hrs)	Units	Pre Requisite
CpE 411		Engineering Management	3		3	CpE 312
CpE 412		Environmental Engineering	2		2	CpE 312
CpE 413		Advanced Logic Circuit & Switching Theory	3	3	4	CpE 323
CpE 414		Principles of Communication	3		3	CpE 323
CpE 415		Computer Aided Manufacturing	2	3	3	CpE 311
Soc Sc 13		Principles of Economics, Taxation w/ Land Reform	3		3	
Math 411		Advance Engineering Mathematics	3		3	Math 311
CpE 416		Safety Engineering	1		1	
Total Units					<u>22</u>	

FOURTH YEAR - SECOND SEMESTER

Course No.	GRADE	Descriptive Title	Lec (hrs)	Lab (hrs)	Units	Pre Requisite
CpE 421		System analysis and Design	2	3	3	CpE 316
CpE 422		Digital Signal Processing	3	3	4	CpE 414
CpE 423		Data Communication	3		3	CpE 414
CpE 424		Control Systems	3	3	4	CpE 413
Rizal		Life and Works of Rizal	3		3	
CpE 425		Techno- Entrepreneurship	3		3	CpE 312
CpE 426		Object Oriented Engineering	2	3	3	CpE 316
Total Units					<u>23</u>	

FIFTH YEAR - FIRST SEMESTER

Course No.	GRADE	Descriptive Title	Lec (hrs)	Lab (hrs)	Units	Pre Requisite
CpE 511		Design Project 1 (Methods of Research)	3		3	5th yr
CpE 512		Software Engineering	3		3	5th yr
CpE 513		Microprocessor System	3	3	4	5th yr
Soc Sc 14		Politics and Governance w/ Philippines Constitution	3		3	
CpE 514		Computer System Architecture	2	3	3	5th yr
CpE 515		Artificial Intelligence & Cognitive Sciences	3		3	CpE 426
CpE Elec 2		Elective 2: Microelectronics	3		3	5th yr
Total Units					<u>22</u>	

FIFTH YEAR - SECOND SEMESTER

Course No.	GRADE	Descriptive Title	Lec (hrs)	Lab (hrs)	Units	Pre Requisite
CpE 521		Design Project 2 (Project Implementation)	0	6	2	5th yr
CpE 522		Engineering Ethics & Computer Laws	2		2	5th yr
CpE 523		Seminars, Field Trips & On the Job Training	0	3	1	5th yr
CpE Elec 3		Elective 3: Embedded Systems	3		3	5th yr
Total Units					<u>8</u>	