



College of Information Technology and Computing BS in Computer Science

		FIRS	T YEAR					
		First .	Semester					
Course (and a	Description	N	o. of Ho	urs	Units	Pre-	Co-
Course	Loue	Description	Lec	Lab	Total	Units	Requisites	Requisites
MMW		Mathematics in Modern World	3	0	3	3	None	None
PurCom		Purposive Communication	3	0	3	3	None	None
TCW		The Contemporary World	3	0	3	3	None	None
RPH		Readings in Philippine History	3	0	3	3	None	None
PATHFit	1	Movement Competency Training or MCT	2	0	2	2	None	None
NSTP101B/ A		CWTS/ROTC 1	3	0	3	3	None	None
CS	111	Introduction to Computing	2	3	5	3	None	None
CS	112	Computer Programming 1	2	3	5	3	None	None
		TOTAL	21	6	27	23		
		Second	l Semeste	er				
Course (- Codo	Danasiation	N	o. of Ho	urs	Units	Pre-	Co-
Course	Joue	Description	Lec	Lab	Total	Omis	Requisites	Requisites
ArtApp		Art Appreciation	3	0	3	3	PurCom	None
UTS		Understanding the Self	3	0	3	3	None	None
STS		Science, Technology, and Society	3	0	3	3	None	None
PATHFit	2	Exercise-based Fitness Activities	2	0	2	2	PATHFIT1	None
NSTP102B/ A		CWTS/ROTC 2	3	0	3	3	NSTP101B/ A	None
CSMath	121	Linear Algebra for Computer Science	3	0	3	3		None
CS	121	Computer Programming 2	2	3	5	3	CS111, CS112	None
CS	122	Physics for Computer Science (Basic Electronics)	2	3	5	3	None	None
		TOTAL	21	6	27	23		
		SECO	ND YEA	R	-			
		First	Semester					
Course (ode.	Description	N	o. of Ho	urs	Units	Pre-	Co-
Course	Joue	Description	Lec	Lab	Total	Units	Requisites	Requisites
EnviSci		Environmental Science	3	0	3	3	None	None
PATHFit	3	Physical Activity Towards Health and Fitness 3 (Menu on Dance, Sports, Martial Arts, Group Exercise, Outdoor and Adventure Activities)	2	0	2	2	PATHFIT2	None
Rizal		Life and Works of Rizal	3	0	3	3	None	None





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CS	211	Discrete Structures 1	3	0	3	3	CSMath121	None
CS	212	Human Computer Interaction	2	3	5	3	CS121	None
CS	213	Data Structures and Algorithms (Algo 1)	2	3	5	3	CS121	None
CS	214	Fundamentals of Database Systems	2	3	5	3	CS121	None
CSMath	211	Statistics for Computer Science	2	3	5	3	None	None
		TOTAL	19	12	31	23		
		Second	l Semeste					
Course	Code	Description		o. of Ho	urs	Units	Pre-	Co-
Course	Couc	_	Lec	Lab	Total		Requisites	Requisites
Ethc		Ethics	3	0	3	3	None	None
PATHFIT	3	Physical Activity Towards Health and Fitness 4 (Menu on Dance, Sports, Martial Arts, Group Exercise, Outdoor and Adventure Activities)	2	0	2	2	PATHFIT3	None
CSMath	221	Calculus for Computer Science	3	0	3	3	None	None
CS	221	Algorithms and Complexity (Algo 2)	2	3	5	3	CS213	None
CS	222	Computer Architecture and Organization	2	3	5	3	CS122	None
CS	223	Discrete Structures 2	3	0	3	3	CS211	None
CS	224	Applications Development and Emerging Technologies	2	3	5	3	CS121	None
CS	225	Object-Oriented Programming	2	3	5	3	CS121	None
		TOTAL	19	12	31	23		
		THIR	D YEAF	₹				
		First	Semestei					
Course	Code	Description	No. of Hours			Units	Pre-	Co-
		-	Lec	Lab	Total		Requisites	Requisites
GnS		Gender and Society	3	0	3	3	None	None
CS	311	Automata Theory and Formal Languages	2	3	5	3	CS221, CS225	None
CS	312	Introduction to Artificial Intellegence	2	3	5	3	CS221	None
CS	313	Networks and Communications	2	3	5	3	CS214	None
CS	314	Operating Systems	2	3	5	3	CS222	None
CS	315	Principles of Programming Languages	2	3	5	3	CS225, CS221	None
CS	316	Information Management	2	3	5	3	CS213, CS214	None





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CS	317	Software Engineering	2	3	5	3	CS224, CS214	None
		TOTAL	17	21	38	24		
		Second	l Semeste					
Course	Code	Description		o. of Ho		Units	Pre-	Co-
Course			Lec	Lab	Total	Cinto	Requisites	Requisites
PICPE		Philippine Indigenous Communities and Peace Education	3	0	3	3	None	None
CS	321	Information Assurance and Security	2	3	5	3	CS313, CS316	None
CS	322	Technopreneurship	2	3	5	3	None	None
CS	323	Parallel and Distributed Computing	2	3	5	3	CS314	None
CS	324	Machine Learning	2	3	5	3	CS312, CSMath211	None
CS	325	Research Methods	2	3	5	3	45 units CS Prof. Courses	None
CS	326	Software Implementation and Management	2	3	5	3	CS316, CS317	None
CS	327	Social Issues and Professional Practice	3	0	3	3	Ethc	None
		TOTAL	18	18	36	24		
		SUI	MMER					
Course	Code	Description	No. of Hours		Units	Pre-	Co-	
000100		2 computer	Lec	Lab	Total	01110	Requisites	Requisites
CS	331	OJT (Practicum)		240		6	Passed all CS Prof. Courses	
		TOTAL		240		6		
		FOUR	TH YEA	R	-			
		First	Semester	•				
Course	Code	Description	No. of Hours			Units	Pre-	Co-
		Description	Lec	Lab	Total	Omis	Requisites	Requisites
FreeElec		Foreign Language	3	0	3	3	None	None
CS	411	CS Thesis Writing 1	2	3	5	3	Passed all CS Prof. Courses	None
CSE	412	CS Elective 1*	2	3	5	3	*	None
CSE	413	CS Elective 2*	2	3	5	3	*	None
CSE	414	CS Elective 3*	2	3	5	3	*	None
		TOTAL	11	12	23	15		
		Second	l Semeste	er			-	•





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Course Code		Description	No. of Hours			Units	Pre-	Co-
			Lec	Lab	Total	Units	Requisites	Requisites
CS	421	CS Thesis Writing 2	2	3	5	3	CS411	None
CSE	422	CS Elective 4*	2	3	5	3	*	None
CS3	423	CS Elective 5*	2	3	5	3	*	None
		TOTAL	6	9	15	9		

LIST OF ELECTIVES

Course Code		Description	No. of Hours			Units	Pre-	Co-
		Description	Lec	Lab	Total	Omis	requisites	requisites
CS	412						CS221,	None
CS	412	Graphics and Visual Computing	2	3	5	3	CSMath121	
CS	413.1	Image Processing	2	3	5	3	CS221	None
CS	414	Data Mining	2	3	5	3	CS324	None
CS	422	Introduction to Neural Networks and					CS324	CS422.2
CS	422	Deep Learning	2	3	5	3	C3324	C3422.2
CS	423.1	Computer Vision	2	3	5	3	CS413.2	CS422.2

Prepared by:

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