



University of Science and Technology of Southern Philippines
College of Information Technology and Computing
 Department of Information Technology and Computing

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
 EFFECTIVE S.Y. 2018-2019

FIRST YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
MATH	111	Calculus 1	3	0	3	3	None	None
CHEM	101	Chemistry for Engineers	3	3	6	4	None	None
CPE	111	Computer Engineering as a Discipline	1	0	1	1	None	None
CPE	112	Programming Logic and Design	0	6	6	2	None	None
SS	105	Life and Works of Rizal	3	0	3	3	None	None
SS	101	Understanding the Self	3	0	3	3	None	None
FIL	102	Panitikan	3	0	3	3	None	None
PE	101	Physical Activity Towards Health and Fitness 1	2	0	2	2	None	None
NSTP	101	NSTP 1	3	0	3	3	None	None
			Total		30	24	None	None

<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
MATH	121	Calculus 2	3	0	3	3	MATH111	None
PHYS	101	Physics for Engineers	3	3	6	4	MATH111	None
CPE	121	Object Oriented Programming	0	6	6	2	CPE112	None
ES	209	Engineering Data Analysis	3	0	3	3	MATH111	SES121
CPE	122	Discrete Mathematics	3	0	3	3	None	None
SES	121	Statistics for Engineering and Sciences (SES)	3	0	3	3	MATH111	ES209
MATH	101	Mathematics in the Modern World	3	0	3	3	None	None
PE	102	Physical Activity Towards Health and Fitness 2	2	0	2	2	PE 101	None
NSTP	201	NSTP 2	3	0	3	3	NSTP 101	None
			Total		32	26		



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SECOND YEAR								
First Semester								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
ES	208	Differential Equations	3	0	3	3	MATH121	None
CPE	211	Data Structures and Algorithms Analysis	3	3	6	4	CPE121	None
ES	301	Engineering Economics	3	0	3	3	MATH121	None
EE	213	Fundamentals of Electrical Circuits	3	3	6	4	PHYS101	None
ES	210	Computer Aided Drafting	0	3	3	1	None	None
SS	102	Reading in Philippine History	3	0	3	3	None	None
FIL	103	Retorika	3	0	3	3	None	None
ENG	102	Art Appreciation	3	0	3	3	None	None
PE	103	Physical Activity Towards Health and Fitness 3	2	0	2	2	PE 102	None
				Total	32	26		
Second Semester								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
ES	209	Advance Engineering Math	3	0	3	3	ES208	None
CPE	221	SystemDesign	3	3	6	4	CPE211	None
ECE	224	Fundamentals of Electronic Circuits	3	3	6	4	EE213	None
CPE	222	Software Engineering	3	3	6	4	CPE 211	None
ENG	101	Purposive Communication	3	0	3	3	None	None
SS	104	Ethics	3	0	3	3	None	None
SS	103	Contemporary World	3	0	3	3	None	None
PE	104	Physical Activity Towards Health and Fitness 4	2	0	2	2	PE 103	None
				Total	33	26		



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THIRD YEAR								
First Semester								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CPE	311	Logic Circuits and Design	3	3	6	4	ECE224	None
CPE	312	Operating System	3	0	3	3	CPE211	None
CPE	313	Data and Digital Communication	3	0	3	3	None	None
CPE	314	Introduction to HDL	0	3	3	1	CPE112	None
CPE	315	Feedback and Control System	3	0	3	3	ES209	None
CPE	316	Fundamentals of Mixed Signals and Sensors	3	0	3	3	ECE224	None
CPE	317	Computer Engineering Drafting and Design	0	3	3	1	None	None
CPE	318	Numerical Methods	2	3	5	3	ES209	None
CPE	319	Elective Course 1	2	3	5	3	CPE 221	None
				Total	32	24		
Second Semester								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CPE	321	Basic Occupational Health and Safety	3	0	3	3	None	None
CPE	322	Computer Networks and Security	3	3	6	4	CPE313	None
CPE	323	Microprocessor	3	3	6	4	CPE311	None
CPE	324	Methods of Research	2	0	2	2	CPE311	None
ES	211	Technopreneurship	3	0	3	3	None	None
CPE	325	Engineering Ethics	3	0	3	3	None	None
CPE	326	CPE Laws and Professional Practice	2	0	3	2	None	None
CPE	327	Elective Course 2	3	0	3	3	CPE319	None
				Total	29	24		





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FOURTH YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CPE	411	Engineering Management	2	0	2	2	ES301	None
CPE	412	Embedded Systems	3	3	6	4	CPE232	CPE413
CPE	413	Computer Architecture and Organization	3	3	6	4	CPE311; CPE313	None
CPE	414	Emerging Technology in CPE	3	0	3	3		None
CPE	415	CPE Practice and Design 1	0	3	3	1	CPE324; CPE323	CPE413
CPE	416	Digital Signal Processing	3	3	6	4	ES209; CPE316	None
ES	101	Science, Technology, Engineering and Society	3	0	3	3	None	None
CPE	417	Elective 3	3	0	3	3	CPE327	None
FL		Foreign Language	3	0	3	3		
				Total	29	24		
<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CPE	421	CPE Practice and Design 2	0	6	6	2	CPE415	None
CPE	422	Seminars and Fieldtrips	0	3	3	1	None	None
CPE	423	On The Job Training	0	240	240	3	None	None
				Total	23	6		