



Republic of the Philippines
BATANGAS STATE UNIVERSITY
The National Engineering University

Golden Country Homes, Alangilan, Batangas City, Batangas, Philippines 4200

Tel Nos.: (+63 43) 425-0139 local 2222 / 2223

E-mail Address: cics.alangilan@g.batstate-u.edu.ph | Website Address: <http://www.batstate-u.edu.ph>

College of Informatics and Computing Sciences

CURRICULUM

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

Reference CMO No. 25, Series of 2015

FIRST YEAR							
FIRST SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
CC 100	Introduction to Computing	3	2	3	-	-	TC-C
CC 101	Computer Programming	3	2	3	-	-	TC-C
MATH 101	Differential Calculus	4	4	0	-	-	TC-A
GEEd 101	Understanding the Self	3	3	0	-	-	NTC-A
GEEd 102	Mathematics in the Modern World	3	3	0	-	-	NTC-A
GEEd 105	Readings in Philippine History	3	3	0	-	-	NTC-A
PATHFit 1	Movement Competency Training	2	2	0	-	-	NTC-C
NSTP 111	National Service Training Program 1	3	3	0	-	-	NTC-D
	TOTAL	24	22	6	-	-	-

FIRST YEAR							
SECOND SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
CC 102	Advanced Computer Programming	3	2	3	CC 100, CC 101		TC-C
CC 103	Data Structures and Algorithms	3	2	3	CC 100, CC 101		TC-C
CpE 405	Discrete Mathematics	3	3	0	MATH 101		TC-A
MATH 102	Integral Calculus	4	4	0	MATH 101		TC-A
GEEd 108	Art Appreciation	3	3	0			NTC-A
GEEd 109	Science, Technology and Society	3	3	0			NTC-A
PATHFit 2	Exercise-Based Fitness Activities	2	2	0	PATHFit 1		NTC-C
NSTP 121	National Service Training Program 2	3	3	0	NSTP 111		NTC-D
	TOTAL	24	22	6	-	-	-



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SECOND YEAR							
FIRST SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
CC 104	Information Management	3	2	3	CC 103		TC-C
OOP 101	Object-Oriented Programming	3	2	3	CC 102, CC 103		TC-D
PT 101	Platform Technologies	3	2	3	CC 101		TC-D
NET 101	Fundamentals of Computer Networking	3	2	3	CC 100		TC-D
PHYS 111	General Physics 1	3	2	3	MATH 101		TC-B
AI 101	Linear Algebra for AI	3	3	0			TC-A
GEEd 107	Ethics	3	3	0			NTC-A
PATHFit 3	Choice of Dance, Sports, Martial Arts, Group Exercise, Outdoor, and Adventure Activities 1	2	2	0	PATHFit 1, PATHFit 2		NTC-C
TOTAL		23	18	15		-	-

SECOND YEAR							
SECOND SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
DB 101	Database Management System	3	2	3	CC 104		TC-D
NET 102	Advanced Computer Networking	3	2	3	CC 102, NET 101		TC-D
SAM 101	System Administration and Maintenance	3	2	3	CC 104, NET 101		TC-D
PHYS 112	General Physics 2	3	2	3	PHYS 111		TC-B
AI 102	Probability and Statistics for AI	3	3	0	MATH 102		TC-A
GEEd 104	The Contemporary World	3	3	0			NTC-A
GEEd 106	Purposive Communication	3	3	0			NTC-A
PATHFit 4	Choice of Dance, Sports, Martial Arts, Group Exercise, Outdoor, and Adventure Activities 2	2	2	0	PATHFit 1, PATHFit 2		NTC-C
TOTAL		23	19	12		-	-



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SECOND YEAR							
MIDTERM							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
CSAI 100	Artificial Intelligence	3	3	0	AI 101, AI 102, CpE 405		TC-E
QM 101	Quantitative Methods	3	3	0	AI 102, CpE 405		TC-A
	TOTAL	6	6	0			

THIRD YEAR							
FIRST SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
DB 102	Advanced Database Management System	3	2	3	DB 101		TC-D
IAS 101	Information Assurance and Security	3	2	3	NET 101, CC 101		TC-D
SIA 101	System Integration and Architecture	3	2	3	SAM 101		TC-D
SAD 101	Systems Analysis and Design	3	2	3	DB 101, OOP 101		TC-D
HCI 101	Human-Computer Interaction	3	3	0	CC 102		TC-D
AI 103	Machine Learning and Neural Networks	3	2	3	CSAI 100, CC 102		TC-D
GEEd 110	Advanced Technical Writing	3	3	0			NTC-A
	TOTAL	21	16	15			

THIRD YEAR							
SECOND SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
CP 101	Capstone Project 1	3	3	0	3rd Year Standing		TC-D
IAS 102	Advanced Information Assurance and Security	3	2	3	IAS 101		TC-D
SIA 102	Advanced System Integration and Architecture	3	2	3	SIA 101		TC-D
IPT 101	Integrative Programming and Technologies	3	2	3	SAD 101		TC-D
WS 101	Web Systems and Technologies	3	2	3	CC 104, OOP 101		TC-D



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ELEC 101	Professional Elective 1	3	2	3	3rd Year Standing		TC-E
GEd 111	Advanced Oral Communication	3	3	0			NTC-A
	TOTAL	21	16	15			

THIRD YEAR							
MIDTERM							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
ITPM 101	IT Project Management	3	2	3	SAD 101		TC-D
SQA 101	System Quality Assurance	3	2	3	SAD 101		TC-D
	TOTAL	6	4	6			

FOURTH YEAR							
FIRST SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
CP 102	Capstone Project 2	3	3	0	CP 101		TC-C
CC 105	Application Development and Emerging Technologies	3	2	3	OOP 101		TC-C
SIP 101	Social Issues and Professional Practice	3	3	0	CC 100		TC-D
ELEC 102	Professional Elective 2	3	2	3	4th Year Standing		TC-E
ELEC 103	Professional Elective 3	3	2	3	4th Year Standing		TC-E
ENGG 105	Technopreneurship	3	3	0			TC-D
GEd 103	The Life and Works of Rizal	3	3	0			NTC-B
	TOTAL	21	18	9			

FOURTH YEAR							
SECOND SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
ITP 100	IT Internship	6	0	500	4th Year Standing		TC-D
	TOTAL	6	0	500			

**Year Standing - passed all Common and Professional Courses and completed at least 70% of the total units from previous semesters*

Total Units: 175