Republic of the Philippines
BATANGAS STATE UNIVERSITY
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College of Informatics and Computing Sciences

CURRICULUM
Bachelor of Science in Information Technology (BSIT)

PROGRAM OF STUDY (Network Technology Track)

FIRST YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 111	Introduction to Computing	3	2	3	-
GEd 102	Mathematics in the Modern World	3	3	-	-
GEd 108	Art Appreciation	3	3	-	-
FILI 101	Kontekstwalisadong Komunikasyon sa Filipino	3	3	-	-
PATHFit 1	Movement Competency Training	2	2	-	-
NSTP 111	National Service Training Program 1	3	3	-	-
GEd 103	The Life and Works of Rizal	3	3	-	-
GEd 104	The Contemporary World	3	3	-	-
	TOTAL	23	22	3	

FIRST YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
CS 111	Computer Programming	3	2	3	IT 111
CS 131	Data Structures and Algorithms	3	2	3	IT 111
MATH 111	Linear Algebra	3	3	-	GEd 102
FILI 102	Filipino sa Iba't Ibang Disiplina	3	3	-	-
GEd 105	Readings in Philippine History	3	3	-	-
GEd 109	Science, Technology and Society	3	3	-	-
PATHFit 2	Exercise-Based Fitness Activities	2	2	-	PATHFit 1
NSTP 121	National Service Training Program 2	3	3	-	NSTP 111
	TOTAL	23	21	6	

SECOND YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
CS 121	Advanced Computer Programming	3	2	3	CS 111
IT 211	Database Management System	3	2	3	CS 111
CS 211	Object-Oriented Programming	3	2	3	CS 111, CS 131
LITR 102	ASEAN Literature	3	3	-	-
CpE 405	Discrete Mathematics	3	3	-	MATH 111
PHY 101	Calculus Based Physics	3	2	3	MATH 111
IT 212	Computer Networking 1	3	2	3	IT 111
PATHFit 3	Traditional and Recreational Games	2	2	-	PATHFit 1 and 2
	TOTAL	23	18	15	

SECOND YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 221	Information Management	3	2	3	IT 111
IT 223	Computer Networking 2	3	2	3	IT 212
IT 222	Advanced Database Management System	3	2	3	IT 211
MATH 408	Data Analysis	3	3	-	MATH 111
ES 101	Environmental Sciences	3	2	3	PHY 101
GEd 106	Purposive Communication	3	3	-	-
GEd 101	Understanding the Self	3	3	-	-
PATHFit 4	Team Sports (Basketball and Volleyball)	2	2	-	PATHFit 1 and 2
	TOTAL	23	19	12	

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THIRD YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 311	Systems Administration and Maintenance	3	2	3	IT 221, IT 222
IT 312	System Integration and Architecture	3	2	3	CS 131
NTT 401	Computer Networking 3	3	2	3	IT 223
NTT 402	Internet of Things (IoT)	3	2	3	IT 223
IT 313	System Analysis and Design	3	2	3	IT 222
IT 314	Web Systems and Technologies	3	2	3	CS 211
GEd 107	Ethics	3	3	-	-
	TOTAL	**21**	**15**	**18**	

THIRD YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 321	Human-computer interaction	3	3	-	IT 314
NTT 403	Computer Networking 4	3	2	3	NTT 401
NTT 404	Cloud Computing	3	2	3	NTT 402
IT 322	Advanced System Integration and Architecture	3	2	3	IT 312
IT 323	Information Assurance and Security	3	2	3	IT 223
IT 324	Capstone Project 1	3	3	-	3rd Year Standing
IT 325	IT Project Management	3	3	-	IT 313
	TOTAL	**21**	**17**	**12**	

THIRD YEAR					
MIDTERM					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 331	Application Development and Emerging Technologies	3	2	3	IT 321
IT 332	Integrative Programming and Technologies	3	2	3	IT 314
	TOTAL	**6**	**4**	**6**	

FOURTH YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
CS 423	Social Issues and Professional Practice	3	3	-	-
IT 411	Capstone Project 2	3	3	-	IT 324
NTT 405	Cybersecurity	3	2	3	NTT 403
ENGG 405	Technopreneurship	3	3	-	-
IT 413	Advanced Information Assurance and Security	3	2	3	IT 323
IT 414	System Quality Assurance	3	2	3	IT 325
IT 412	Platform Technologies	3	3	-	IT 332
	TOTAL	**21**	**18**	**9**	

FOURTH YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 421	Internship Training	6	-	500	4th Year Standing
	TOTAL	**6**	**-**	**500**	

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College of Informatics and Computing Sciences

PROGRAM OF STUDY (Business Analytics Track)

FIRST YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 111	Introduction to Computing	3	2	3	-
GEd 102	Mathematics in the Modern World	3	3	-	-
GEd 108	Art Appreciation	3	3	-	-
FILI 101	Kontekstwalisadong Komunikasyon sa Filipino	3	3	-	-
PATHFit 1	Movement Competency Training	2	2	-	-
NSTP 111	National Service Training Program 1	3	3	-	-
GEd 103	The Life and Works of Rizal	3	3	-	-
GEd 104	The Contemporary World	3	3	-	-
	TOTAL	23	22	3	

FIRST YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
CS 111	Computer Programming	3	2	3	IT 111
CS 131	Data Structures and Algorithms	3	2	3	IT 111
MATH 111	Linear Algebra	3	3	-	GEd 102
FILI 102	Filipino sa Iba't Ibang Disiplina	3	3	-	-
GEd 105	Readings in Philippine History	3	3	-	-
GEd 109	Science, Technology and Society	3	3	-	-
PATHFit 2	Exercise-Based Fitness Activities	2	2	-	PATHFit 1
NSTP 121	National Service Training Program 2	3	3	-	NSTP 111
	TOTAL	23	21	6	

SECOND YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
CS 121	Advanced Computer Programming	3	2	3	CS 111
IT 211	Database Management System	3	2	3	CS 111
CS 211	Object-Oriented Programming	3	2	3	CS 111, CS 131
LITR 102	ASEAN Literature	3	3	-	-
CpE 405	Discrete Mathematics	3	3	-	MATH 111
PHY 101	Calculus Based Physics	3	2	3	MATH 111
IT 212	Computer Networking 1	3	2	3	IT 111
PATHFit 3	Traditional and Recreational Games	2	2	-	PATHFit 1 and 2
	TOTAL	23	18	15	

SECOND YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 221	Information Management	3	2	3	IT 111
IT 223	Computer Networking 2	3	2	3	IT 212
IT 222	Advanced Database Management System	3	2	3	IT 211
MATH 408	Data Analysis	3	3	-	MATH 111
ES 101	Environmental Sciences	3	2	3	PHY 101
GEd 106	Purposive Communication	3	3	-	-
GEd 101	Understanding the Self	3	3	-	-
PATHFit 4	Team Sports (Basketball and Volleyball)	2	2	-	PATHFit 1 and 2
	TOTAL	23	19	12	

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THIRD YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 311	Systems Administration and Maintenance	3	2	3	IT 221,IT 222
IT 312	System Integration and Architecture	3	2	3	CS 131
BAT 401	Fundamentals of Business Analytics	3	2	3	IT 221,IT 222
BAT 402	Fundamentals of Analytics Modeling	3	2	3	IT 221,IT 222
IT 313	System Analysis and Design	3	2	3	IT 222
IT 314	Web Systems and Technologies	3	2	3	CS 211
GEd 107	Ethics	3	3	-	-
	TOTAL	21	15	18	

THIRD YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 321	Human-computer interaction	3	3	-	IT 314
BAT 403	Fundamentals of Enterprise Data Management	3	2	3	BAT 401
BAT 404	Analytics Techniques & Tools	3	2	3	BAT 402
IT 322	Advanced System Integration and Architecture	3	2	3	IT 312
IT 323	Information Assurance and Security	3	2	3	IT 223
IT 324	Capstone Project 1	3	3	-	3rd Year Standing
IT 325	IT Project Management	3	3	-	IT 313
	TOTAL	21	17	12	

THIRD YEAR					
MIDTERM					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 331	Application Development and Emerging Technologies	3	2	3	IT 321
IT 332	Integrative Programming and Technologies	3	2	3	IT 314
	TOTAL	6	4	6	

FOURTH YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
CS 423	Social Issues and Professional Practice	3	3	-	-
IT 411	Capstone Project 2	3	3	-	IT 324
BAT 405	Analytics Application	3	2	3	BAT 404
ENGG 405	Technopreneurship	3	3	-	-
IT 413	Advanced Information Assurance and Security	3	2	3	IT 323
IT 414	System Quality Assurance	3	2	3	IT 325
IT 412	Platform Technologies	3	3	-	IT 332
	TOTAL	21	18	9	

FOURTH YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 421	Internship Training	6	-	500	4th Year Standing
	TOTAL	6	-	500	

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PROGRAM OF STUDY (Service Management Track)

FIRST YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 111	Introduction to Computing	3	2	3	-
GEd 102	Mathematics in the Modern World	3	3	-	-
GEd 108	Art Appreciation	3	3	-	-
FILI 101	Kontekstwalisadong Komunikasyon sa Filipino	3	3	-	-
PATHFit 1	Movement Competency Training	2	2	-	-
NSTP 111	National Service Training Program 1	3	3	-	-
GEd 103	The Life and Works of Rizal	3	3	-	-
GEd 104	The Contemporary World	3	3	-	-
	TOTAL	**23**	**22**	**3**	

FIRST YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
CS 111	Computer Programming	3	2	3	IT 111
CS 131	Data Structures and Algorithms	3	2	3	IT 111
MATH 111	Linear Algebra	3	3	-	GEd 102
FILI 102	Filipino sa Iba't Ibang Disiplina	3	3	-	-
GEd 105	Readings in Philippine History	3	3	-	-
GEd 109	Science, Technology and Society	3	3	-	-
PATHFit 2	Exercise-Based Fitness Activities	2	2	-	PATHFit 1
NSTP 112	National Service Training Program 2	3	3	-	NSTP 111
	TOTAL	**23**	**21**	**6**	

SECOND YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
CS 121	Advanced Computer Programming	3	2	3	CS 111
IT 211	Database Management System	3	2	3	CS 111
CS 211	Object-Oriented Programming	3	2	3	CS 111, CS 131
LITR 102	ASEAN Literature	3	3	-	-
CpE 405	Discrete Mathematics	3	3	-	MATH 111
PHY 101	Calculus Based Physics	3	2	3	MATH 111
IT 212	Computer Networking 1	3	2	3	IT 111
PATHFit 3	Traditional and Recreational Games	2	2	-	PATHFit 1 and 2
	TOTAL	**23**	**18**	**15**	

SECOND YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 221	Information Management	3	2	3	IT 111
IT 223	Computer Networking 2	3	2	3	IT 212
IT 222	Advanced Database Management System	3	2	3	IT 211
MATH 408	Data Analysis	3	3	-	MATH 111
ES 101	Environmental Sciences	3	2	3	PHY 101
GEd 106	Purposive Communication	3	3	-	-
GEd 101	Understanding the Self	3	3	-	-
PATHFit 4	Team Sports (Basketball and Volleyball)	2	2	-	PATHFit 1 and 2
	TOTAL	**23**	**19**	**12**	

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THIRD YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 311	Systems Administration and Maintenance	3	2	3	IT 221,IT 222
IT 312	System Integration and Architecture	3	2	3	CS 131
SMT 401	Fundamentals of Business Process Outsourcing 101	3	2	3	IT 221
SMT 402	Business Communication	3	2	3	IT 221
IT 313	System Analysis and Design	3	2	3	IT 222
IT 314	Web Systems and Technologies	3	2	3	CS 211
GEd 107	Ethics	3	3	-	-
	TOTAL	21	15	18	

THIRD YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 321	Human-computer interaction	3	3	-	IT 314
SMT 403	Fundamentals of Business Process Outsourcing 102	3	2	3	SMT 401
SMT 404	Service Culture	3	2	3	SMT 401
IT 322	Advanced System Integration and Architecture	3	2	3	IT 312
IT 323	Information Assurance and Security	3	2	3	IT 223
IT 324	Capstone Project 1	3	3	-	3rd Year Standing
IT 325	IT Project Management	3	3	-	IT 313
	TOTAL	21	17	12	

THIRD YEAR					
MIDTERM					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 331	Application Development and Emerging Technologies	3	2	3	IT 321
IT 332	Integrative Programming and Technologies	3	2	3	IT 314
	TOTAL	6	4	6	

FOURTH YEAR					
FIRST SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
CS 423	Social Issues and Professional Practice	3	3	-	-
IT 411	Capstone Project 2	3	3	-	IT 324
SMT 405	Principles of System Thinking	3	2	3	SMT 403
ENGG 405	Technopreneurship	3	3	-	-
IT 413	Advanced Information Assurance and Security	3	2	3	IT 323
IT 414	System Quality Assurance	3	2	3	IT 325
IT 412	Platform Technologies	3	3	-	IT 332
	TOTAL	21	18	9	

FOURTH YEAR					
SECOND SEMESTER					
Code	Course Title	Units	Lec	Lab	Prerequisite
IT 421	Internship Training	6	-	500	4th Year Standing
	TOTAL	6	-	500	

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