



St. Michael's College
Iligan City
Bachelor of Science in Computer Science (BSCS)
Effective SY 2019-2020

FIRST YEAR						
First Semester						
Grade	Course Code	Descriptive Title	Lec hrs/week	Lab hrs/Week	Total Hrs /week	Pre-Requisites
	RS 1N	Essentials of Catholic Faith & Life	3		3	none
	CC 101	Introduction to Computing with CS Fundamentals	2	3	5	none
	CC 102	Computer Programming 1	2	3	5	none
	GE 1	Understanding the Self	3		3	none
	GE 6	Art Appreciation	3		3	none
	Fil 1	Kontemporaryong Panitikang Pilipino	3		3	none
	GE 2	Readings in Philippine History	3		3	none
	PE 1	Physical Activity towards Health and Fitness 1	2		2	None
	NSTP 1	LTS 1	3		3	None
	Total		24	6	30	26

Second Semester						
Grade	Course Code	Descriptive Title	Lec hrs/week	Lab hrs/Week	Total Hrs /week	Pre-Requisites
	RS 2N	Religions, Religious Experiences & Spirituality on Human History and Personal Life	3		3	RS 1N
	CC 103	Computer Programming 2	2	3	5	CC 102
	GE ELECT 2	Gender and Society	3		3	None
	GE 7	Science, Technology & Society	3		3	None
	GE 5	Purposive Communication	3		3	None
	GE 4	Mathematics in the Modern World	3		3	none
	GE ELECT 3	Entrepreneurial Mind	3		3	PE 1
	PE 2	Physical Activity towards Health and Fitness 2	2		2	NSTP 1
	NSTP 2	LTS 2	3		3	
	Total		25	3	28	26

SECOND YEAR						
First Semester						
Grade	Course Code	Descriptive Title	Lec hrs/week	Lab hrs/Week	Total Hrs /wk	Pre-Requisites
	Phys 21	College Physics	3		3	Math MW
	Phys 21L	College Physics Lab		3	3	Math MW
	IT 222	Logic Design	2	3	5	CC 101
	GE 3	Contemporary World	3		3	None
	CS 104	Discrete Structures 1	3		3	Math MW
	CC 104	Data Structures & Algorithms	2	3	5	CC 103
	CS 211	Object-Oriented Programming	2	3	5	CC 103
	IFP 1	Ignacian Spirituality and Catholic Life	3		3	None
	PE 3	Indoor Sports	2		2	PE 2
	Total		23	12	32	24

Second Semester						
Grade	Course Code	Descriptive Title	Lec hrs/week	Lab hrs/Week	Total Hrs /week	Pre-Requisites
	GE ELEC 1	Living in the IT Era	3		3	None
	Elec 1	CS Elective 1	2	3	5	2 nd year standing
	CS 205	Architecture and Organization	2	3	5	CS 104/CC 104
	CS 212	Fundamentals of Database System	2	3	5	CS 211
	CC 206	Information Management	2	3	5	CC 104
	Cal 22	Advanced Calculus	3		3	Math MW
	IFP 2	Ignacian Spirituality for Mission	3		3	None
	CS 105	Discrete Structures 2	3		3	CS 104
	PE 4	Outdoor Recreations	2		2	PE 3
	Total		12	12	34	26

THIRD YEAR						
First Semester						
Grade	Course Code	Descriptive Title	Lec hrs/week	Lab hrs/Week	Total Hrs /week	Pre-Requisites
	CS 301	Networks and Communications	2	3	5	IT 222
	CS 302	Information Assurance & Security	3		3	CS 305
	CC 305	Human Computer Interaction	2	3	5	CC 101
	GE 9	Life & Works of Rizal	3		3	None
	CS 310	Web Systems & Technologies	2	3	5	CC105/CS212
	CS 318	Algorithm and Complexity	3		3	CC 104
	CS 312	Automata Theory and Formal Languages	3		3	CC104/CC105
	CS 311	Software Engineering 1	2	3	5	CC 206
	Ethics	Ethics	3		3	None
	Total		23	12	35	27

Second Semester							
Grade	Course Code	Descriptive Title	Lec hrs/week	Lab hrs/Week	Total Hrs /week	Total Units	Pre-Requisites
	CS 203	Programming Languages	2	3	5	3	CC 104
	CS 319	Computational Science	3		3	3	CS 312
	Elect 2	CS Elective 2	2	3	5	3	3 rd year standing
	CS 320	Integrative Programming & Technologies	2	3	5	3	CS 211
	Elect 3	CS Elective 3	2	3	5	3	3 rd Year Standing
	CS 204	Operating System	2	3	5	3	CS 205
	CS 306	Social and Professional Issues	3		3	3	3 rd year standing
	Total		16	15	31	21	

SUMMER							
Grade	Course Code	Descriptive Title	Lec hrs/week	Lab hrs/Week	Total Hrs /week	Total Units	Pre-Requisites
	CS317	Thesis 1	3		3	3	CS 311
	Total		3		3	3	

FOURTH YEAR							
First Semester							
Grade	Course Code	Descriptive Title	Lec hrs/week	Lab hrs/Week	Total Hrs /week	Total Units	Pre-Requisites
	CS 417	Thesis 2	3		3	3	CS 317
	CC 106	Application Development & Emerging Technologies	2	3	5	3	CS 320
	CS 205	Parallel and Distributing Computing	2	3	5	3	CS 204
	CS 411	Software Engineering 2	2	3	5	3	CS 311
	CS 412	Systems Administration & Maintenance	2	3	5	3	CS 311
	CS 413	Seminars & Field Trip	3		3	3	4 th year standing
	FL	Foreign Language	3		3	3	None
	Elect 4	CS Elective 4	2	3	5	3	4 th year standing
	Total		19	15	34	24	

Second Semester							
Grade	Course Code	Descriptive Title	Lec hrs/week	Lab hrs/week	Total Hrs	Total Units	Pre-Requisites
	CS 500	On-the-Job Training			320	3	Completed All Academic Requirements
	Total				320	3	

Name : _____
ID Number : _____

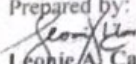
Electives:

Mobile and Web Track

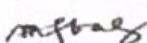
- Graphics and Visual Computing
- Advanced Web Development
- Mobile Application
- Game Development

Business Analytics:

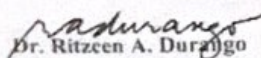
- Fundamentals of Business Analytics & Enterprise Data Management
- Descriptive, Predictive & Prescriptive Analytics
- Intelligent System
- Neural Network

Prepared by:

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