

BACHELOR OF INFORMATION TECHNOLOGY

Tracks:

1. Database Systems
 2. Network Systems
- List of Courses by Semester

BOR Resolution No.____, Series of 2018

First Year, First Semester

Course No.	Course Title	Units	Hrs/Week			Prerequisite(s)
			Lec	Lab	Total	
GEC101	Understanding the Self	3	3	0	3	None
GEC102	Purposive Communication	3	3	0	3	None
MAT104	Discrete Structures	3	3	0	3	None
GEC104	Mathematics in the Modern World	3	3	0	3	None
CCC100	Fundamentals of Computing	3	3	0	3	None
CCC101	Computer Programming 1	3	2	3	5	None
PED001	Exercise Prescription and Management	2	2	0	2	None
NST001	National Service Training Program 1	(3)	0	0	(3)	None
	Total	20/(23)	19	3	22/(25)	

First Year, Second Semester

Course No.	Course Title	Units	Hrs/Week			Prerequisite(s)
			Lec	Lab	Total	
GEC103	The Contemporary World	3	3	0	3	None
GEC105	Readings in Philippine History	3	3	0	3	None
GEC106	Art Appreciation	3	3	0	3	None
FPE101	Fundamentals of Peace Education	3	3	0	3	None
MAT051	Calculus 1	5	5	0	5	None
CCC102	Computer Programming 2	3	2	3	5	CCC101
PED002	Dance/Martial Arts	2	2	0	2	PED001
NST002	National Service Training Program 2	(3)	0	0	(3)	NST001
	Total	22/(25)	21	3	24/(27)	

Second Year, First Semester

Course No.	Course Title	Units	Hrs/Week			Prerequisite(s)
			Lec	Lab	Total	
GEC107	Ethics	3	3	0	3	None
GEC108	Science, Technology and Society	3	3	0	3	None
Lang Elect	Foreign Language	3	3	0	3	None
MAT061	Calculus 2	5	5	0	5	MAT051
CCC121	Data Structures and Algorithms	3	2	3	5	CCC102
ITE131	Computer Architecture and Operating Systems	3	3	0	3	None
PED003	Individual/Dual Sports/Traditional/Recreational Games	2	2	0	2	PED001
Total		22	21	3	24	

Second Year, Second Semester

Course No.	Course Title	Units	Hrs/Week			Prerequisite(s)
			Lec	Lab	Total	
GEC109	Life and Works of Rizal	3	3	0	3	None
ITE122*/ ITE144**	Algorithmic Graph Theory*/ Numerical Linear Algebra and Matrix Theory**	3	2	3	5	MAT104 & CCC101
STT071	Probability and Statistical Inference for Computing Systems	2	2	0	2	CCC102
STT071.1	Probability and Statistical Inference for Computing Systems (Lab)	1	0	3	3	CCC102
ITE125	Introduction to Human Computer Interaction	3	2	3	5	CCC102
ITE132	Fundamentals of Computer Networks	3	2	3	5	ITE131
CCC151	Information Management	3	2	3	5	CCC121
PED004	Team Sports	2	2	0	2	PED001
Total		20	15	15	30	

Third Year, First Semester

Course No.	Course Title	Units	Hrs/Week			Prerequisite(s)
			Lec	Lab	Total	
HIS003	History of Filipino Muslims and the Indigenous People of MINSUPALA	3	3	0	3	None
FIL101	Wika at Kultura sa Mapayapang Lipunan	3	3	0	3	None
ITE133*/ ITE152**	Advance Computer Networks*/ Advance Databases**	3	2	3	5	ITE132*/ CCC151**
ISY108	Requirements Engineering	3	2	3	5	CCC151
CCC181	Application Development and Emerging Technologies	3	2	3	5	CCC151
ITE191/ ITE198	CAPSTONE 1/ Research Methods	3	3	0	3	ITE132/ CCC151
Tech Elect 1	Technical Elective 1	3	2	3	5	ITE132/ CCC151
Total		21	17	12	29	

Third Year, Second Semester

Course No.	Course Title	Units	Hrs/Week			Prerequisite(s)
			Lec	Lab	Total	
FIL102	Ekokritisismo at Pagpahalaga sa Kalikasan	3	3	0	3	None
ITE153	Introduction to Artificial Intelligence and Expert Systems	3	2	3	5	CCC121
ITE182	Systems Integration, Administration and Maintenance	3	3	0	3	CCC151
ITE193	Special Topics in IT	3	3	0	3	ITE133*/ ITE152**
ITE192/ ITE199	CAPSTONE 2/ Undergraduate Thesis	3	3	0	3	ITE191/ ITE198
Tech Elect 2	Technical Elective 2	3	2	3	5	ITE132/ CCC151
Tech Elect 3	Technical Elective 3	3	2	3	5	ITE132/ CCC151
Total		21	18	9	27	

Fourth Year, First Semester

Course No.	Course Title	Units	Hrs/Week			Prerequisite(s)
			Lec	Lab	Total	
ENT101	Startup Essentials: Fundamentals of Innovation-driven Entrepreneurship	3	3	0	3	None
ITE183	Web Systems and Technologies	3	2	3	5	CCC181
ITE184	Social, Legal and Professional Issues in Computing	3	3	0	3	GEC107
ITE185	Information Assurance and Security	3	3	0	3	CCC151
Tech Elect 4	Technical Elective 4	3	2	3	5	ITE132*/ CCC151**
Tech Elect 5	Technical Elective 5	3	2	3	5	ITE132*/ CCC151**
Total		18	15	9	24	

Fourth Year, Second Semester

Course No.	Course Title	Units	Hrs/Week			Prerequisite(s)
			Lec	Lab	Total	
ITE197	On-the-Job Training	6	0	40	40	ITE192/ ITE199
Total		6	0	40	40	

Legend: * Network Track

** Database Track

Grand Total 150 (156) units

Summary of Academic Units	
First Year	
First Semester	20 (23)
Second Semester	22 (25)
Second Year	
First Semester	22
Second Semester	20
Third Year	
First Semester	21
Second Semester	21
Fourth Year	
First Semester	18
Second Semester	6
TOTAL	150 (156)

LIST OF SUBJECTS COMMON TO THE ITE PROGRAMS

(In compliance to CHED Memo Order No. 25 Series of 2015)

Course No.	Course Title	Units	Hrs/Week			Prerequisite(s)
			Lec	Lab	Total	
CCC100	Fundamentals of Computing	3	3	0	3	None
CCC101	Computer Programming 1	3	2	3	5	None
CCC102	Computer Programming 2	3	2	3	5	CCC101
CCC121	Data Structures and Algorithms	3	2	3	5	CCC102
CCC151	Information Management	3	2	3	5	CCC121
CCC181	Application Development and Emerging Technologies	3	2	3	5	CCC151
	Total	18	13	15	28	

OPTION A: DATABASE SYSTEMS TRACK

Technical Electives: (15 Units Required)

ITD100	Data Warehousing and Data Mining
ITD101	Distributed Databases
ITD102	R Programming Language
ITD103	Modern Query Languages
ITD104	Database Security, Admin & Management
ITD105	Big Data Analytics
ITD106	Lexical Databases
ITD107	Information Assurance
ITD108	Information Engineering
ITD109	Knowledge Based Systems
ITD110	NoSQL Databases
ITD111	Business Intelligence
ITD112	Data Visualization Techniques
ITD113	Applied Linear Models
ITD114	Software Quality Assurance and Metrics
ITD115	Platform Technologies

OPTION B: NETWORK SYSTEMS TRACK

Technical Electives: (15 Units required)

ITN100	Network Systems Programming
ITN101	Switching and Routing
ITN102	Network Security
ITN103	Network Management
ITN104	Enterprise Networking
ITN105	Wireless and Mobile Computing
ITN106	VoIP Technology
ITN107	Advance Operating System
ITN108	Introduction to Cryptography
ITN109	Introduction to Optic Networks
ITN110	Introduction to Computer Forensics
ITN111	Information Security
ITN112	Network Planning and Management
ITN113	Computer Network Protocols
ITN114	Wireless Internet and Pervasive Computing