## Scheme of Study for Bachelor of Science in Information Technology BS (IT)

**4-year Programme (8 Semesters) (2012-2016)** 

## **Semester I: (19 credit hours)**

#	Course	Course Title	Category	Credit	Prerequisites
	code			Hours	
1	IT 101	Introduction to Information	Computing General		-
		and Comm. Technologies	Education	2+1	
2	CS 103		Computing core		-
		Programming Fundamentals	course	3+1	
3	MT 105	Calculus and Analytical	Computing		-
		Geometry	Supporting course	3+0	
4	EE 107		Computing		-
		Basic Electronics	Supporting course	2+1	
5	EG 109	English Composition &	Computing General		-
		Comprehension	Education	3+0	
6	* 111	University Elective I	University Electives	3+0	-

**Semester II: (17 credit hours)** 

#	Course	Course Title	Category	Credit	Prerequisites
	code			Hours	
1	CS 102		Computing core		-
		Discrete Structures	course	3+0	
2	CS 104	Object Oriented	Computing core		Programming
		Programming	course	2+1	Fundamentals
3	IT 106	Fundamentals of IT	IT core course	3+0	-
4	* 108	University Elective II	University Electives	3+0	-
5	EG 110		Computing General		-
		Communication Skills	Education	3+0	
6	PK 112		Computing General		-
		Pakistan Studies	Education	2+0	

Semester III: (17 credit hours)

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#	Course	Course Title	Category	Credit	Prerequisites
	code			Hours	
1	CS 201		Computing core		Discrete
		Digital Logic Design	course	2+1	Structures
2	CS 203	Data Structures and	Computing core		Object Oriented
		Algorithms	course	2+1	Paradigm
3	MT 205		Computing		-
		Linear Algebra	Supporting course	3+0	
4	EG 207	Technical and Business	Computing General		-
		Writing	Education	3+0	
5	PK 209		Computing General		-
		Islamic Studies/Ethics	Education	2+0	
6	* 211	University Elective III	University Electives	3+0	-

**Semester IV: (18 credit hours)** 

#	Course	Course Title	Category	Credit	Prerequisites
	code			Hours	
1	CS 202		Computing core		Data Structures
		Operating Systems	course	2+1	and Algorithms
2	CS 204	Introduction to Database	Computing core		Data Structures
		Systems	course	2+1	and Algorithms
3	IT 206	Organizational Behaviour	IT supporting course		-
				3+0	
4	MT 208		Computing		-
		Probability and Statistics	supporting course	3+0	
5	CS 210	Computer Communication	Computing core		Operating
		and Networks	course	2+1	Systems
6	* 212	University Elective IV	University Electives	3+0	-

**Semester V: (18 credit hours)** 

#	Course	Course Title	Category	Credit	Prerequisites
	code			Hours	
1	IT 301	Web Systems and	IT core course		Fundamentals
		Technologies		2+1	of IT
2	* 303		Computing core		-
		University Elective V	course	3+0	
3	CS 305	Introduction to Software	Computing core		Data Structures
		Development	course	3+0	and Algorithms
4	* 307	IT Elective I	IT Electives	3+0	-
5	IT 309	Multimedia Systems and	IT core course		Fundamentals
		Design		2+1	of IT
6	IT 311	Information Systems	IT supporting course	3+0	-

**Semester VI: (18 credit hours)** 

	emester (10 treate nours)						
#	Course	Course Title	Category	Credit	Prerequisites		
	code			Hours			
1	* 302	University Elective VI	University Electives	3+0	-		
2	IT 304	Systems and Network	IT core course		-		
		Administration		2+1			
3	* 306	IT Elective II	IT Electives	3+0	-		
4	* 308	University Elective VII	University Electives	3+0	-		
5	* 310	IT Elective –III	IT Electives	3+0			
6	CS 312	Human Computer	Computing core		-		
		Interaction	course	2+1			

**Semester VII: (18 credit hours)** 

#	Course	Course Title	Category	Credit	Prerequisites
	code			Hours	
1	IT401	Technology Management	IT supporting course	3+0	-
2	* 403	IT Elective IV	IT Electives	3+0	
3	IT 405	Network Security	IT core course	3+0	-

4	IT 407	System Integration and	IT core course		Fundamentals
		Architecture		3+0	of IT
5	* 409	IT Elective V	IT Electives	3+0	-
6	*411	IT Elective VI	IT Elective	3+0	-

**Semester VIII: (12 credit hours)** 

#	Course	Course Title	Category	Credit	Prerequisites
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	code			Hours	
1	CS 402	IT Capstone /Software	Computing core		-
		Project	course	6	
2	* 404	IT Elective VII	IT Elective	3	
3	SS 406		Computing General		-
		Professional Practices	education	3	