

## Bachelor's Science Honours in Information Technology

### First Year: Semester 1

No	Course	Course Code	Credit Hours	Lecture	Lab	Tutorial
1	Arabic I	UR111	3	3		
2	Religious Studies I	UR113	3	3		
3	English I	UR112	3	2		
4	Sudanese Studies	UR114	2			
5	Introduction to IT	IT111	3	2	2	
6	Principles of Management	HU116	2	2		
7	Calculus	MT117	3	2		2
8	Statistics & Probability	MT118	3	2		2
<b>Total Credit Hours</b>			<b>22</b>			

### First Year: Semester 2

No	Course	Course Code	Credit Hours	Lecture	Lab	Tutorial
1	Arabic II	HU121	3	2		
2	English II	HU122	3	2		2
3	Religious Studies II	HU123	3	2		
4	Algebra & Analytic Geometry	MT219	3	2		2
5	Financial Accounting	HU125	3	2	2	
6	Principles of Economics	HU126	2	2		
7	Programming Methods I	CS127	3	2	2	
8	Database Concept	CS211	3	2		2
<b>Total Credit Hours</b>			<b>23</b>			

**Second Year: Semester 3**

No	Course	Course Code	Credit Hours	Lecture	Lab	Tutorial
1	Database Management System	IS211	3	2	2	
2	Management Information System	IS213	2	2		
3	Marketing Concept	HU215	3	2		2
4	Programming Methods II	CS216	3	2	2	
5	System Analysis and Design	IS217	3	2	2	
6	Applied Statistics	MT211	3	2		2
7	Discrete Mathematics	MT124	3	2		2
<b>Total Credit Hours</b>			<b>20</b>			

**Second Year: Semester 4**

No	Course	Course Code	Credit Hours	Lecture	Lab	Tutorial
1	Decision Support Systems	IS211	2	2		
2	Business Application Programming	IT222	3	2	2	
3	Data Structure & Algorithms	CS223	3	2	2	
4	Internet Technology	IT223	3	2	2	
5	Computer Networks and Communications	CS312	3	2	2	
6	Operating Systems	CS227	3	2	2	
7	Information Security	IT224	3		2	
<b>Total Credit Hours</b>			<b>20</b>			

**Third Year: Semester 5**

No	Course	Course Code	Credit Hours	Lecture	Lab	Tutorial
1	IT and Cyber Security	IT312	3	2	2	
2	Network Management & Design	IT313	3	2	2	
3	Web Design	IT314	3	2	2	
4	Principles of E-Commerce	IS314	3	2		2
5	Accounting Information System	IS311	2	2		
6	Software Engineering I	SW316	3	2	2	
7	Data Mining	IT311	3	2	2	
<b>Total Credit Hours</b>			<b>20</b>			

**Third Year: Semester 6**

No	Course	Course Code	Credit Hours	Lecture	Lab	Tutorial
1	IT Project Management	IT326	3	2	2	
2	Entrepreneurship	HU322	2	2		
3	Software Engineering II	SW323	3	2	2	
4	Multimedia Applications	IT328	3	2	2	
5	Wireless Sensor Networks	IT329	3	2	2	
6	Operation Research	MT326	3	2		2
7	Advanced Web Application	IT325	3	2	2	
<b>Total Credit Hours</b>			<b>20</b>			

**Fourth Year: Semester 7**

No	Course	Course Code	Credit Hours	Lecture	Lab	Tutorial
1	Human Computer Interaction	IT413	3	2	2	
2	Cloud Computing	IT412	3	2	2	
3	Research Methodology	HU415	2	2		
4	Business Intelligence	IT411	3	2	2	
5	Mobile Application Development	IT327	3	2	2	
6	Knowledge Management	IT426	3	2		2
<b>Total Credit Hours</b>			<b>17</b>			

**Fourth Year: Semester 8**

No	Course	Course Code	Credit Hours	Lecture	Lab	Tutorial
1	Principles of Technical Support	IT427	3	2	2	
2	Digital Marketing	IT425	3	2	2	
3	Professional Issues and Communication Skills	HU423	3	2		2
4	Elective Course 1	IT	3	2	2	
5	Elective Course 2	IT	3	2	2	
6	Elective Course 3	IT	3	2	2	
7	Final Project	IT426	6			
<b>Total Credit Hours</b>			<b>24</b>			

**Total credit hours = 166**