

Bachelor Honours of Education in Computer and Technology

Distribution of Courses per Semester

First Year: Semester One

Course code	Course Name	Contact hours	Lecture	Lab	Tutorial	Credit hours
CR101	English Language I	4	2		2	3
CR103	Arabic Language I	4	2		2	3
CR105	Study Skills	4	2		2	2
CR109	Religious Sciences I	2	2			2
ED101	Principles of Education	2	2			2
CST101	Introduction to Computer Science and Applications	6	2	4		2
CST103	Algebra and Elementary	4	2	2		3
CST105	Physics	6	2	2	2	4
Total						23

First Year: Semester Two

Course code	Course Name	Contact hours	Lecture	Lab	Tutorial	Credit hours
CR102	English Language II	4	2		2	3
CR104	Arabic Language II	2	2			3
CR106	Religious Sciences II	2	2			2
ED102	General Psychology	4	2			2
CST102	Calculus I	4	2	2		3
CST104	Programming Methods I	4	2	2		3
CST106	Discrete Mathematics	4	2	2		3
Total						19

Second Year: Semester Three

Course code	Course Name	Contact hours	Lecture	Lab	Tutorial	Credit hours
ED201	Development Psychology	2	2			2
ED203	Pedagogical Psychology	2	2			2
ED205	Activities 1: Sport/Music/Drama or Art Education	2	2			2
CST201	Data Structure & Algorithms	4	2	2		3
CST203	Programming Method II	4	2	2		3
CST205	Basic Electronics	4	2	2		3
CST207	Statistics and Probability	4	2	2		3
CST209	Differential Equations	4	2	2		3
TOTAL						21

Second Year: Semester Four

Course code	Course Name	Contact hours	Lecture	Lab	Tutorial	Credit hours
ED202	Pedagogical Sociology	2	2			2
ED204	Counseling and Guidance	2	2			2
ED206	Activities 2: Sport/Music/Drama or Art	2	1			2
CST202	Calculus II	4	2		2	3
CST204	Database Concept	4	2	2		3
CST206	Visual Programming	4	2	2		3
CST208	Logic Circuits Design	4	2	2		3
CST210	Internet Technology I	4	2	2		3
Total						21

Third Year: Semester Five

Course code	Course Name	Contact hours	Lecture	Lab	Tutorial	Credit hours
ED301	Curriculum Design and Development	2	2			2
ED303	Activities 3: Sport/Music/Drama or Art Education	2	1			2
ED305	Principles of Special Teaching	2	2			2
CST301	Computer Networks & Communications	4	2	2		3
CST303	Operating System	4	2	2		3
CST305	Systems Analysis & Design	4	2	2		3
CST307	Computer Architecture & Organization	4	2	2		3
CST309	Internet Technologies II	4	2	2		3
Total						21

Third Year: Semester Six

Course code	Course Name	Contact hours	Lecture	Lab	Tutorial	Credit hours
ED302	Learning Theories	2	2			2
ED304	Pedagogical	2	2			2
ED306	Teaching Methods	2	2			2
ED308	Educational Research	2	2		2	3
ED310	Educational Measurement and Evaluation	2	2		2	3
ED312	PRACTICUM 1					2
CST302	Artificial Intelligence	4	2	2		3
CST304	ELECTIVE COURSE I	4	2	2		3
Total						20

Fourth Year: Semester Seven

Course code	Course Name	Contact hours	Lecture	Lab	Tutorial	Credit hours
ED401	Pedagogical Technologies 2	1	1			2
ED403	Educational Planning and Administration	2	2			2
ED405	The Educational System in Sudan	2	2			2
ED407	PRACTICUM 2					4
CST401	ELECTIVE COURSE II	4	2	2		3
CST403	ELECTIVE COURSE III	4	2	2		3
CST405	Computer Security	4	2	2		3
Total						19

Fourth Year: Semester Eight

Course code	Course Name	Contact hours	Lecture	Lab	Tutorial	Credit hours
ED402	PRACTICUM 3					6
ED404	Graduation Research	3	1			4
ED406	Text Book Analysis	2				2
CST404	Human Computer Interaction	4	2	2		3
CST402	ELECTIVE COURSE IV	4	2	2		3
Total						18

