

FACULTY OF COMPUTING AND INFORMATION TECHNOLOGY

Makerere University Council on 19th February 2005 established the Faculty of Computing and Information Technology (CIT). The Faculty of Computing and IT grew out of the Institute of Computer Science, which was established by Makerere University Council in 1985. CIT offers expert teaching and research in the areas of Computing and Information Technology;

A. UNDERGRADUATE PROGRAMMES

1. DIPLOMA IN COMPUTER SCIENCE AND INFORMATION TECHNOLOGY (DCSI)

1.1 Curriculum for a Major in Computer Science

Year 1: Semester 1 (4 Core Courses)		CU
BIT 1100	Website Development & Internet Technology	3
CSC 1100	Computer Literacy	4
CSK 1101	Communication Skills	4
DCS 1103	Gender and ICT	3
Electives (1 Elective Course)		
DCS 1104	Fundamentals of Computer Graphics	3
DCS 1105	Fundamentals of Linear Models	3
DCS 1106	Computer Architecture Concepts	3
Year 1: Semester II (3 Core Courses)		
BIT 1200	Information Technology	3
CSC 1202	Principles of Programming	4
CSC 1203	Information Systems	3
Electives (2 Elective Courses)		
DCS 1200	Fundamentals of Data Structures & Algorithms	4
DCS 1204	Fundamentals of Database Systems	4
DCS 1202	Fundamentals of Systems Analysis and	4
Year II: Semester I (3 Core Courses)		
CSC 1101	Computers	3
CSC 1102	Computational Mathematics I	4
CSC 1103	Solution Methods in Optimization	4

Electives: (2 Elective Courses)		
BIT 1102	Communications Technology & the Internet	3
BIT 1103	Basic Management Skills	3
BIT 1101	Business Communication & Report Writing	3
DCS 2102	Basics of Web Applications Engineering	4
DCS 2101	Fundamentals of Software System Design	4
Year II: Semester II (3 Core Courses)		
CSC 1200	Programming Methodology	4
CSC 1201	Computational Mathematics II	4
CSC 1204	Research Methodology	4
Electives: (2 Elective Courses)		
BIT 1201	System Administration	3
BIT 1202	Entrepreneurship and Business	3
BIT 1203	Business Applications Programming	4
DCS 2200	Fundamentals of Software Project Management	4
DCS 2201	Fundamentals of Computer Networks and Applications	4
Year II: Recess Term		
CSC 1301	Practical Skills Development	4
CSC 1302	CCNA Semester I and II (Audited Course)	-

1.2 Curriculum for a Major in Information Technology

Year I: Semester I (4 Core Courses)		CU
BIT 1100	Website Development & Internet Technology	3
CSC 1100	Computer Literacy	4
CSK 1101	Communication Skills	4
DCS 1103	Gender and ICT	3
Electives: (1 Elective Course)		
DCS 1104	Fundamentals of Computer Graphics	3
DCS 1105	Fundamentals of Linear Models	3
DCS 1106	Computer Architecture Concepts	3
Year I: Semester II: (3 Core Courses)		
BIT 1200	Information Technology	3
CSC 1202	Principles of Programming	4
CSC 1203	Information Systems	3
Electives: (2 Elective Courses)		

DCS 1200	Fundamentals of Data Structures & Algorithms	4
DCS 1204	Fundamentals of Database Systems	4
DCS 1202	Fundamentals of Systems Analysis and Design	4
Year II: Semester I (3 Core Courses)		
BIT 1101	Business Communication & Report Writing	3
BIT 1102	Communications Technology & the Internet	3
BIT 1103	Basic Management Skills	3
Electives: (2 Elective Courses)		
CSC 1101	Computers	3
CSC 1102	Computational Mathematics I	4
CSC 1103	Solution Methods in Optimization	4
DCS 2102	Basics of Web Applications Engineering	4
DCS 2101	Fundamentals of Software System Design	4
Year II: Semester II (3 Core Courses)		
BIT 1201	System Administration	3
BIT 1202	Entrepreneurship and Business	3
BIT 1203	Business Applications Programming	4
Electives: (2 Elective Courses)		
CSC 1200	Programming Methodology	4
CSC 1201	Computational Mathematics II	4
CSC 1204	Research Methodology	4
DCS 2200	Fundamentals of Software Project Management	4
DCS 2201	Fundamentals of Computer Networks and Applications	4
Year II: Recess Term		
BIT 1301	Practical Skills Development	4
CSC 1302	CCNA Semester I and II(Audited Course)	-

2. Diploma in Computer Science (DCSC)

Year I: Semester I (4 Core Courses)		CU
CSK 1101	Communication Skills	4
DCS 1100	Introduction to Computer Fundamentals	4
DCS 1101	Introduction to Object Oriented Programming	4
DCS 1102	Introduction to 4th generation languages	4
Year I: Semester II (4 Core Courses)		
DCS 1200	Introduction to Data Structures & Algorithms	4
DCS 1201	Fundamentals of Database Management Systems	4
DCS 1202	Fundamentals of Systems Analysis and Design	4
DCS 1203	Introduction to Computer Architecture	3
Year II: Semester I (3 Core Courses)		
DCS 2100	Fundamentals of Computer Information Systems	4
DCS 2101	Fundamentals of Software System Design	4
DCS 2102	Basics of Web Applications Engineering	4
Electives: (1 Elective Course)		
DCS 2103	Introduction to Computer Graphics	4
DCS 2104	Fundamentals of Linear Models	4
Year II: Semester II (3 Core Courses)		
DCS 2200	Fundamentals of Software Project Management	4
DCS 2201	Fundamentals of Computer Networks and Applications	4
DCS 2202	Diploma in Computer Science Project	4
Electives: (1 Elective Course)		
DCS 2203	Legal and Ethical Aspects of Computers	3
DCS 2204	Introduction to User Interface Design	3

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (BCSC)

Year I: Semester I (5 Core Courses)		CU
CSK 1101	Communication Skills	4
CSC 1100	Computer Literacy	4
CSC 1101	Computers	3
CSC 1102	Computational Mathematics I	4
CSC 1103	Solution Methods in Optimization	4

Year I: Semester II (5 Core Courses)		
CSC 1200	Programming Methodology	4
CSC 1201	Computational Mathematics II	4
CSC 1202	Principles of Programming	4
CSC 1203	Information Systems	3
CSC 1204	Research Methodology	4