IBRAHIM BARRE UNIVERSITY

FACULTY OF COMPUTER SCIENCE

BACHELOR'S DEGREE IN COMPUTER SCIENCE

IBU offers a 3-year degree program in Computer science by focusing the courses on the development and testing of software and software systems. It involves working with mathematical models, data analysisand security, algorithms, and computational theory.

The course also focuses on Information technology (IT) that concentrates on the development, implementation, support, and management of computers and information systems. Information technology (IT) involves working both with hardware (CPUs, RAM, hard disks) and software (operating systems, web browsers, mobile applications). Information technology (IT) professionals make sure that computers, networks, and systems work well for all users.

"Education is the key that will unlock the door of opportunity for you."

Why Take Computer Science?

Computing is part of everything we do. Computing drives innovation in engineering, business, entertainment, education, and the sciences and it provides solutions to complex, challenging problems of all kinds.

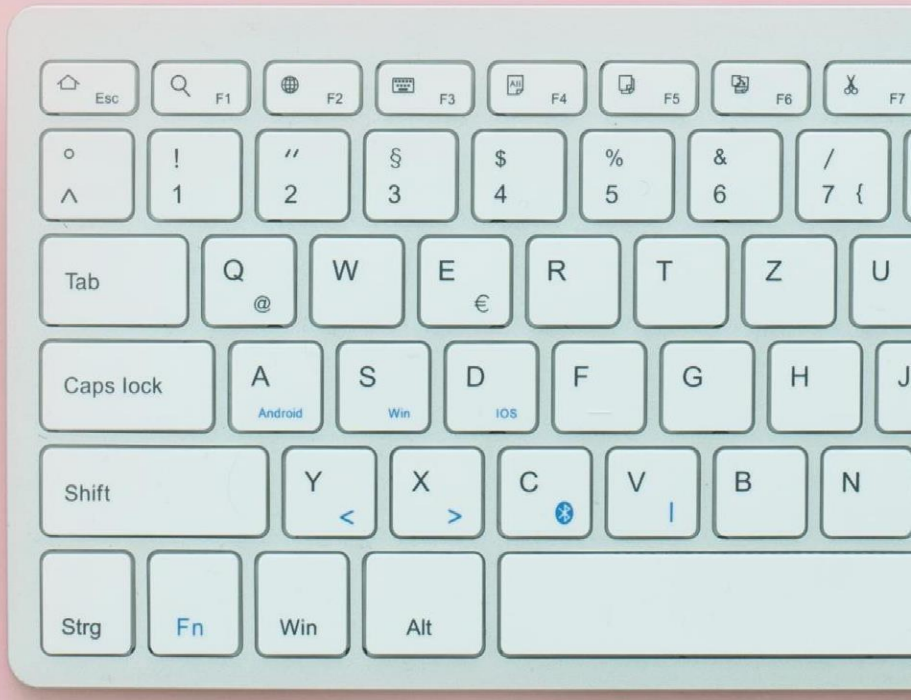
Computer science is the study of computers and computational systems. It is a broad field which includes everything from the algorithms that make up software to how software interacts with hardware to how well software is developed and designed. Computer scientists use various mathematical algorithms, coding procedures, and their expert programming skills to study computer processes and develop new software and systems.

What Careers does Computer Science Offer?

Computing jobs are among the highest paid today, and computer science professionals report high job satisfaction. Most computer scientists hold at least a bachelor's degree in computer science or a related field.

Principal areas of study and careers within computer science include artificial intelligence, computer systems and networks, security, database systems, human-computer interaction, vision and graphics, numerical analysis, programming languages, software engineering, bioinformatics, and theory of computing.
Some common job titles for computer scientists include:

- Computer Programmer
- Information Technology Specialist
- Database Administrator
- Web Developer
- Systems Engineer
- Software Engineer
- Hardware Engineer
- Mobile Developer
- Network Administrator
- Video Game Developer
- Systems Analyst



What Skills do Computer Professionals Need?

Learning how to program and code is only one element of the field. Computer professionals design, develop, and analyze the software and hardware used to solve problems in all kinds of business, industry, scientific, and social contexts. And because computers solve problems to serve and enrich people, there is a significant human component to computer science. Due to the range and complexity of the projects they take on, computer professionals depend on both technical knowledge and essential skills like communication, problem-solving, critical thinking, and creativity.

Other useful skills include:

- Analytical and logical thinking
- Technical and mathematical skills
- Attention to detail
- Project management
- Technical writing
- Research
- Art and design

The Future of Computer Science.

What does the future of computer science look like? There's no end in sight! Computing has permeated our lives and its influence just keeps growing—from the apps on our phones to any device with a computer processor, computing is here to stay.

Future opportunities in computing are without boundaries. Across virtually every industry, computer science professionals are engaged in programming, systems analysis, database administration, network architecture, software development, research, and more.

IBU Computer Labs

IBU has two operational computer labs that feature 24 desktop computers with Windows operating systems and 24 laptop computers with Linux operating systems. Both labs operate as classrooms with whiteboards, projectors, computer hardware, and internet connectivity.

COURSE STRUCTURE

Year 1 Semester 1	Course Code	Course Name	Contact Hours Per Week	Contact Hours Per Semester
Course 1	CS101	CompTIA IT Fundamental	2 Hours	28 Hours
Course 2	CS102	C Programming	2 Hours	28 Hours
Course 3	MTH101	Math Pre-Calculus	3 Hours	42 Hours
Course 4	ENG101	English Grammar and Vocabulary	3 Hours	42 Hours

Year 1 Semester 2	Course Code	Course Name	Contact Hours Per Week	Contact Hours Per Semester
Course 1	CS103	Networking Fundamentals	3 Hours	42 Hours
Course 2	CS104	Web Design	3 Hours	42 Hours
Course 3	CS105	C Programming 2	3 Hours	42 Hours
Course 4	CS106	MS-Office	1 Hour	14 Hours
Course 5	MTH102	Discreet Mathematics	3 Hours	42 Hours
Course 6	ENG102	English Academic Writing Skills	3 Hours	42 Hours

COURSE STRUCTURE

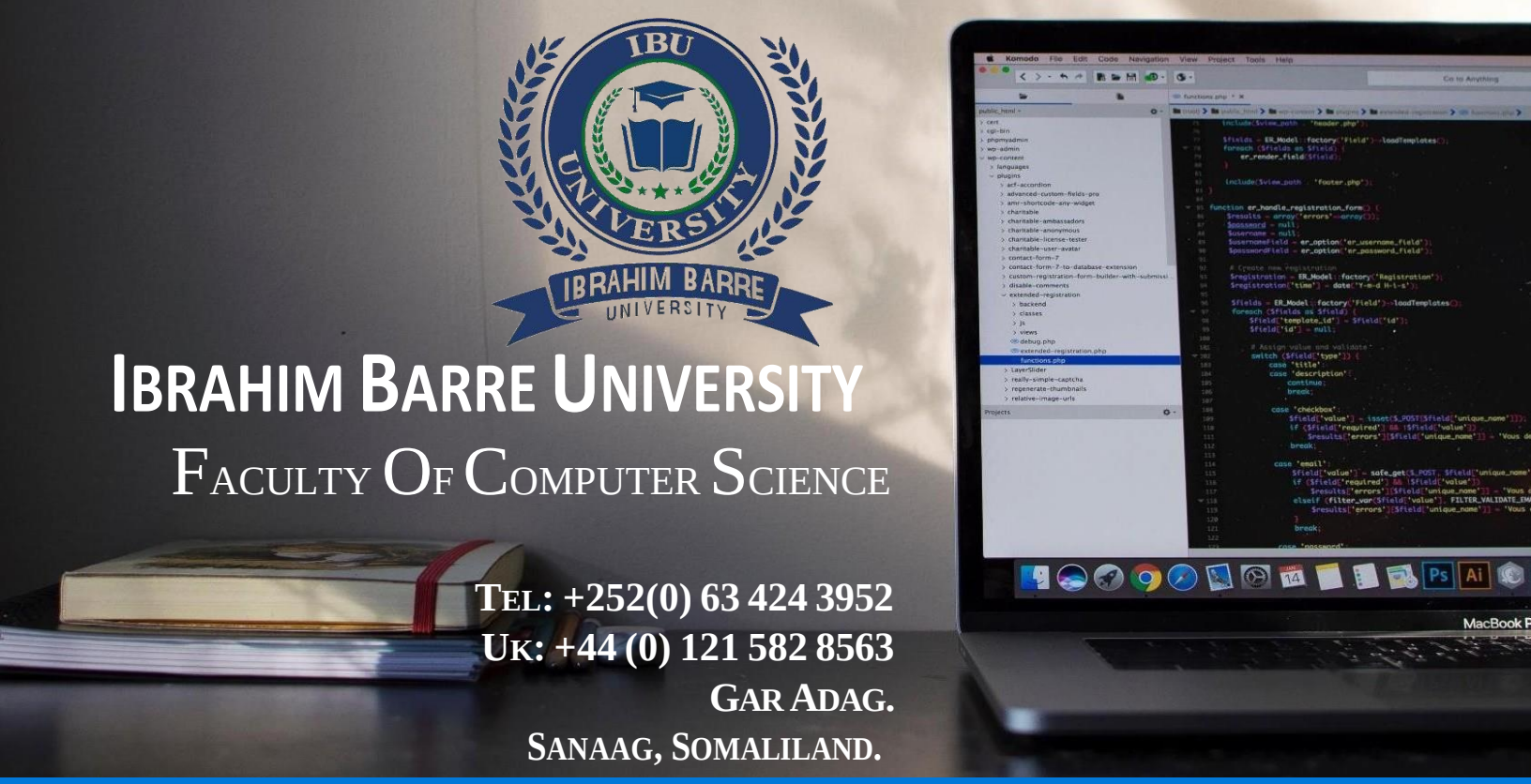
Year 2 Semester 1	Course Code	Course Name	Contact Hours Per Week	Contact Hours Per Semester
Course 1	CS106	Python	3 Hours	42 Hours
Course 2	CS107	CCNA	3 Hours	42 Hours
Course 3	CS108	Windows Server	3 Hours	42 Hours
Course 4	ENG103	English Communication Skills	3 Hours	42 Hours

Year 2 Semester 2	Course Code	Course Name	Contact Hours Per Week	Contact Hours Per Semester
Course 1	CS109	Internet Programming (PHP)	3 Hours	42 Hours
Course 2	CS110	Database Management	3 Hours	42 Hours
Course 3	CS111	Linux Fundamentals	3 Hours	42 Hours
Course 4	ENG104	English Reading Skills	3 Hours	42 Hours

COURSE STRUCTURE

Year 3 Semester 1	Course Code	Course Name	Contact Hours Per Week	Contact Hours Per Semester
Course 1	CS112	Multimedia System	3 Hours	42 Hours
Course 2	CS113	Data Structure and Algorithm	3 Hours	42 Hours
Course 3	CS114	Principles of Information & Cybersecurity	3 Hours	42 Hours
Course 4	CS115	AWS Course	3 Hours	42 Hours

Year 3 Semester 2	Course Code	Course Name	Contact Hours Per Week	Contact Hours Per Semester
Course 1	CS116	Word Press Complete	3 Hours	42 Hours
Course 2	CS117	Research Methodology	3 Hours	42 Hours
Course 3	CS118	Programming Logic Controllers (PLC)	3 Hours	42 Hours
Course 4	CS119	Final Project ICT	3 Hours	42 Hours



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APPLY TODAY

Our Computer Science Admissions Team is here to support you in your decision, and they help arrange several opportunities where you can visit and talk to us. University Open Days are scheduled throughout the year and as an applicant or offer holder, you will also be invited to visit us separately, where you can meet staff andstudents who will try and help you make a decision that's right for you. If you haveany questions in the meantime, please do not hesitate to get in touch and we will doall that we can to help.

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