

**MAKERERE UNIVERSITY BUSINESS SCHOOL  
FACULTY OF COMPUTING AND INFORMATICS  
DEPARTMENT OF APPLIED COMPUTING & INFORMATION TECHNOLOGY  
ACADEMIC YEAR 2025/2026 SEMESTER II  
BACHELOR OF BUSINESS ADMINISTRATION OF MAKERERE UNIVERSITY**

<b>COURSE Name</b>	<b>: ADVANCED ICT</b>
<b>COURSE Code</b>	<b>: BUC 3229</b>
<b>COURSE Level</b>	<b>: 3</b>
<b>CREDIT Units</b>	<b>: 5</b>
<b>Credit Hours</b>	<b>: 75</b>
<b>Facilitators</b>	<b>:</b>

**FACILITATORS AT THE MAIN CAMPUS**

**Group A:** Prof. Sonny Nyeko / Ms. Aisha Mwesigye / Ms. Winnie Kisaakye

**Group B:** Mr. Edirisa Tebandeke / Ms. Fatuma Nakawoya

**Group C:** Ms. Aisha Watsemba /Ms. Afulah Namatovu

**Group D:** Mr. Nasser Wangubo / Ms. Winnie Kisaakye

**FACILITATORS AT REGIONAL CAMPUSES**

- 1. Arua:** Mr. Cosmas Ogenmungu / Ms. Abalo Grace/Mr. Xavier Francis Ovoni
- 2. Jinja:** Ms. Estherloy Katali / Ms. Justine Nakalyango / Ms. Annet Katono
- 3. Mbarara:** Mr. Robinson Kamusiime / Ms. Daphine / Ms. Juliana Tumuramy
- 4. Mbale:** Mr. Faisal Mubuke / Ms. Prisca Nabukwasi

**Course Description:**

Successful organizations large and small leverage available technologies to manage business activities and assist in making decisions. They use information systems to collect data and process it according to the needs of the analyst, manager or business owner. Businesses operate more efficiently by using varied information systems to interact with customers and partners, curtail costs and generate revenues.

This Course is designed to introduce students to an understanding of the impact of Information Systems/Technology to organizations and how such organizations can be transformed to meet the dynamic environment. The central goal of this course is to develop an integrative focus on how information technologies can transform and enhance all types of work and business processes. The course uses the language of business rather than technical jargon to build this integrative focus.

**Course Objective**

1. To enable students appreciate the strategic role of Information systems to organizations
2. To introduce managerial issues in the field of Information Communication Technology
3. Identify several basic competitive strategies and explain how a business can use IT to confront the competitive forces faced by a business
4. Identify several strategic uses of IT and give examples of how they give competitive advantages to a business
5. To give students practical skills in data and project management

**Learning Outcomes**

At the end of the course students should be able to:

- Appreciate managerial issues in the field of Information Communication Technology
- Appreciate the strategic issues in information systems.
- Understand how business processes can be transformed through ICT.
- Know how an organization can strategically use ICT for competitive advantage
- Appreciate the different organizational Information systems
- Appreciate IT as a competitive tool in Business
- Develop simple business databases using Ms Access
- Develop simple project schedules using Ms Project
- Describe current ICT trends and explain how they are influencing business operations globally.

**DETAILED COURSE OUTLINE**

<b>Topic</b>	<b>Practicals</b>	<b>Hours</b>
<b>1. Information Systems, organizations and strategy</b> <ul style="list-style-type: none"> <li>• Information Systems and the Organization</li> <li>• Corporate Transformation and the organisation</li> <li>• Information Technology in Corporate Transformation</li> <li>• Strategic and Competitive Information Systems.</li> <li>• Business value of using Internet technologies and Information Systems.</li> </ul>	<b>MS Access:</b> <ul style="list-style-type: none"> <li>• Introduction to MS Access.</li> <li>• Creation of tables in design view</li> <li>• Setting of data types, primary keys &amp; other table properties</li> </ul>	(15 hours)
<b>2. Business Information System Strategy</b> <ul style="list-style-type: none"> <li>• The strategic Context of information systems</li> <li>• Aligning IT and the Business Environment</li> <li>• Strategic alignment between business and IS strategies</li> </ul>	<b>MS Access:</b> <ul style="list-style-type: none"> <li>• Creation of relationship among tables.</li> </ul>	(10 hours)

<ul style="list-style-type: none"> <li>Managing IT investment</li> </ul>		
<b>Test I (Theory)</b>		
<b>3. Business Process Management</b> <ul style="list-style-type: none"> <li>Introduction and definitions</li> <li>Business Process life cycle</li> <li>Business Process Re-engineering</li> <li>Strategic use of IT in Business Process Re-engineering</li> </ul>	<b>MS Access:</b> <ul style="list-style-type: none"> <li>Forms</li> </ul>	(10 hours)
<b>4. Introduction to Enterprise Business Systems</b> <ul style="list-style-type: none"> <li>Enterprise Resource Planning (Goals, components, benefits and failures of ERP)</li> <li>Customer Relationship Management (Trends, benefits and challenges)</li> <li>Supply Chain Management (Goals, trends, benefits and challenges of SCM)</li> </ul>	<b>MS Access:</b> <ul style="list-style-type: none"> <li>Simple queries using the query wizard</li> <li>Generating reports for tables and queries</li> </ul>	(10 hours)
<b>Test II (Practical)</b>		
<b>5. Project Management</b> <ul style="list-style-type: none"> <li>ICT project management</li> <li>Project management lifecycle of IT projects</li> <li>Project management key tools and software</li> <li>What differentiates IT projects from non-IT projects</li> <li>The role of project management software applications</li> <li>Using Microsoft Project to create and configure the required outputs of the project plan</li> <li>Using Microsoft Project to track project progress</li> </ul>	<b>MS project:</b> <ul style="list-style-type: none"> <li>Introduction to basic concepts,</li> <li>saving a project,</li> <li>setting project properties,</li> <li>understanding the different views,</li> <li>creation of dependencies among tasks</li> <li>Generation of simple reports.</li> </ul>	(15 hours)
<b>6. ICT Emerging Trends in Business:</b> <ul style="list-style-type: none"> <li>Artificial Intelligence,</li> <li>Block Chain and crypto currencies,</li> <li>Cloud to the Edge,</li> <li>Big data,</li> <li><b>Mobile Payments;</b> Understand Mobile payments and its various models</li> <li><b>Mobile Apps;</b> Popular types/Categories and Examples of business Apps</li> <li><b>Mobile Computing;</b> Common devices,</li> </ul>	<b>MS project:</b> <ul style="list-style-type: none"> <li>Assignment of project resources and costing</li> <li>Project tracking</li> </ul>	(15 hours)

<p>Main Principle and Limitations.</p> <ul style="list-style-type: none"> <li>• <b>Cloud Computing:</b> Definition, Pros and Cons, Application, delivery models, Examples (e-Mail, iCloud, OneDrive, Google Drive, Drop Box ...) and factors to consider when choosing cloud computing,</li> <li>• <b>Grid computing and virtualization</b></li> <li>• <b>Social networks applications in business</b></li> </ul>		
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**NOTE: The theory and practical sessions will run concurrently.**

### Delivery Method

Straight lecture, Discussion, practical and case studies

Coursework assignments shall be timetabled and communicated accordingly. Students must attempt both of them. However, other two additional assignments in form of a Group Take-home and individual assignments will also be provided without prior notice.

Coursework	Nature	Coverage	Grading
1	Theory	Topics 1,2	15%
2	Practical	MS Access/ MS Project	15%
<b>Final Exam</b>	Theory + Practical	All topics	70%
			<b>100%</b>

Each student must ensure that they receive their course work results before the final examination and raise any issues before the examination week commences. Ensure to receive and keep your coursework script until you receive the final examination results the following semester.

### Learning Management System - Mubsep

Students are required to enroll themselves on the Makerere University Business School Elearning Platform - Mubsep (<http://mubsep.mubs.ac.ug>) BBA III ADVANCED ICT class. Mubsep is an online Moodle Online Learning Management System. All communication, teaching materials, assignments, results and discussion forum will be done on that forum.

### Participation

Every student is required to attend at least 80% of the classes to fulfil the minimum requirements to sit for the final examination. Students are also required to attempt all assignments as partial fulfilment for the requirements of the course.

### Statement for Academic Dishonesty

Academic dishonesty (e.g. cheating on assignments and examinations, plagiarism) is a serious offense. All work that you submit in this class must be your own. Each student is

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MUBS Vision: The benchmark for Business and Management Education, Research and Training in the region.***

responsible for being familiar with the MUBS policies on academic dishonesty. Any student engaging in academic dishonesty in this course will receive a fail grade (0) and appropriate disciplinary action will be taken.

**References**

- Sonny Nyeko and Musa Moya (2024). *Information and Communication Technology in Business*, Third Edition Text, **ISBN: 9789970153008 (Available in MUBS Library)**
- James A. O'Brien and George Marakas. *Management Information Systems with MI Source* 2007, 8<sup>th</sup>Ed. Boston, MA: McGraw-Hill, Inc., 2007. ISBN: 13 9780073323091
- *Management Information Systems-digital firm* 13<sup>th</sup> edition Laudon and Laudon 2014
- *Business Information System* 3<sup>rd</sup> edition by Paul Bocij, Chaffey, Greasley and Hickie
- *Business Information Management ACCA Study Text*

**Approved By**

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**Team Leader Arua Campus**

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**HoD Marketing & Management**