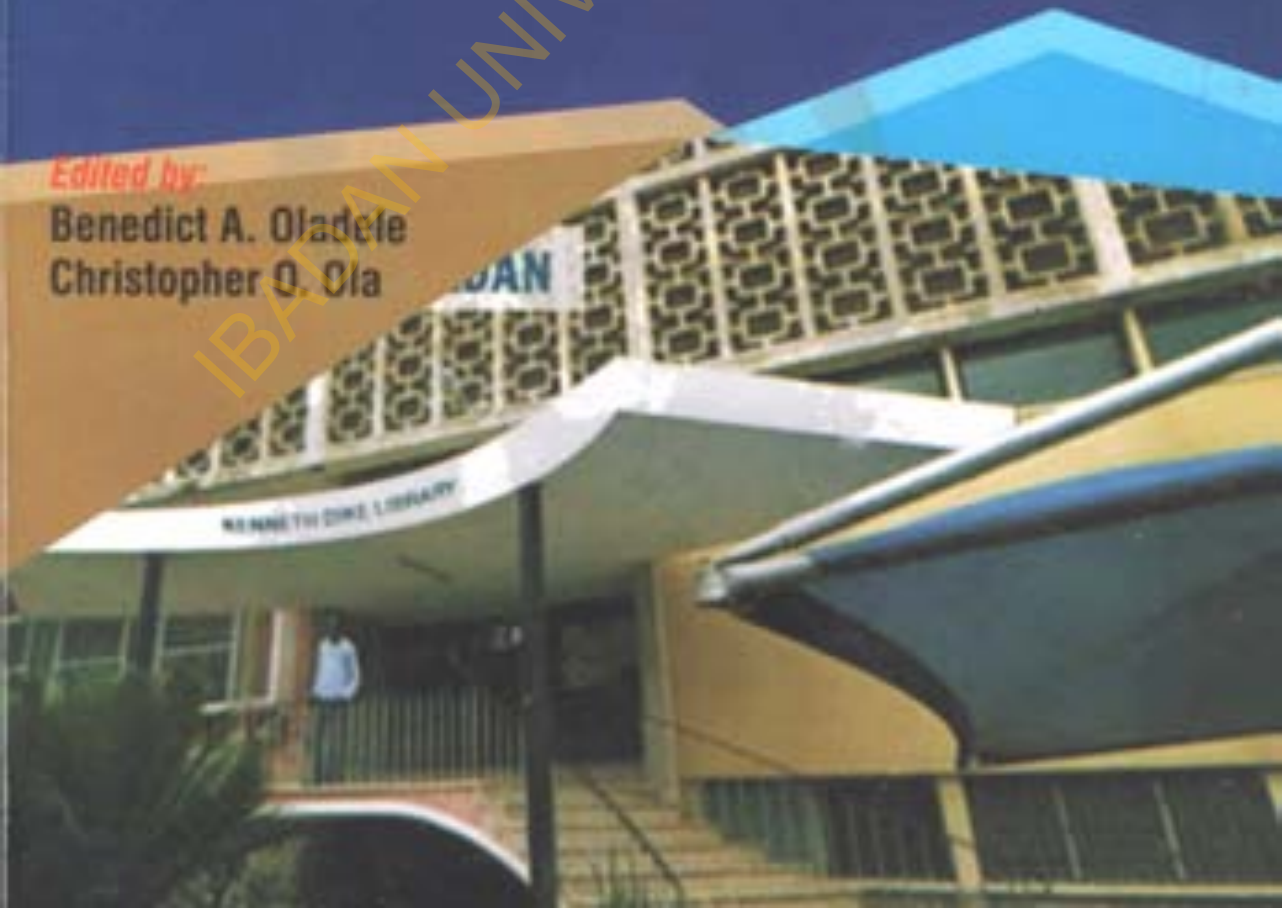
THE UNIVERSITY OF IBADAN LIBRARY SYSTEM

THE JOURNEY CONTINUES...

Edited by:
Benedict A. Oladele
Christopher O. Ola



IBADAN UNIVERSITY LIBRARY

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IBADAN UNIVERSITY LIBRARY

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DEDICATION

TO OUR TEEMING USERS – PAST AND PRESENT

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9 ACTIVITIES OF THE SYSTEMS UNIT IN BRIEF

Ojo, R.A., Dumebi Otulugbu, Titilayo C. Ilesanmi, Agwu, P.U. and Alonge, A.J.

Preamble

In 2011, the Systems Unit (SU), formerly known as Computer Applications Unit, was divided into four (4) sub-units by the then University Librarian, Dr. B.A. Oladele. This was done to enhance effective coordination of activities in respect of Information Technology (IT) deployment and implementation in the entire University of Ibadan Library System (UILS). These Sub-Units are: Technical, Digitization, Electronic Resources (ER), and Emerging Technology Crew (ETC).

Highlighted below are some of the major activities and achievements of these sub-units. These are integrated to form a unified whole in respect of the activities and achievements of the systems unit. They are also, part of the initiatives, support and strategic leadership of the Current Library Administration (CLA).

Technical Sub-Unit

This is a sub-unit that is responsible for the technical issues relating to Information and Communications Technology (ICT) use within the University of Ibadan Library System. In essence, it is the sub-unit which is charged with the responsibility of setting up a sustainable platform for ICT deployment and implementation in the entire University of Ibadan Library System.

Major Activities

Since inception, some of the major activities of the Technical Sub-Unit are highlighted below:

- Automation of Students' Library Registration process. Students are now able to do self-registration in the Library even on their mobile phones.
- Development of a sister Library Management System Software (LMSS) that will run in parallel with the current

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Web-based Library Management System Software (Web-Based LMSS, VIRTUA) being used in the Library, which will serve as a backup system with ability to support future technologies like RDA, RFID e.t.c.

- A highly dynamic and locally managed University of Ibadan Kenneth Dike Library website has been re-designed with full in-house support and administration.
- Installation, Configuration and Hosting of a fully functional Digital Commons or Institutional Repository for the University of Ibadan has commenced and the work is ongoing. D-Space is being used as content management system software. A server with four (4) terabytes capacity has been acquired. The content management system software has been installed on it and several digitised contents uploaded.
- A fully functional OPAC system for the entire Library system is being perfected.
- Total overhauling and segmentation of the Library's Local Area Network (LAN). This is done to achieve a sustainable platform for ICT Implementation in the entire Library system.
- Establishment of a direct link to ICT from the Library through Fibre Optic Cabling.
- The Design and establishment of a functional digital library platform to run on the LAN is almost at the state of completion. This Digital Library Platform is targeted towards enhancing the University of Ibadan accreditation exercise in respect of having a robust and sustainable backup for our electronic resources.

Digitization Sub-Unit

Digitization is the process of transforming artefacts, manuscripts, printed materials to electronic format. In essence, it implies scanning analogue sources into the computer. This sub-unit is responsible for digitizing materials which have been identified for digitization in the Library through the coordinated efforts of Library digitization committee headed by Mr. C.O. Ola.

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The Digitization project at the Kenneth Dike Library (KDL), University of Ibadan, was the initiative of the immediate past administration. The project was kick-started in the year 2010 with the funds provided by the McArthur Foundation through the University to the Library. At this juncture, there is need to highlight the goals of digitization which are mainly for preservation, wider visibility, advocacy and multiple access. Access to the digitized materials is achievable through the Library website.

Major Activities

Since inception, below is the brief summary of the activities as well as what has been achieved by the digitization sub-unit.

- Journals such as **Orita** and **Nigerian Field** - both have close to over 30 volumes have been digitized. The journals have been stored in our external storage device in preparation for uploading, and physical copies have been returned to serials.
- Publications of some lecturers have been digitized. Parts of the completed work have been uploaded into the Institutional Repository (IR).
- Minutes of Appointments and Promotions (A&P) that were brought from the Establishments Unit of the University have been completed and returned.
- Award winning theses of the University of Ibadan are already uploaded into the IR.
- Part of rare materials of Nigerian past heroes like Funmilayo Rasome-Kuti, Bishop Akinyele and Herbert Macaulay have been digitized.
- Some University of Ibadan intellectual outputs: Inaugural Lectures; University Lectures and Valedictory Lectures are being digitized.

Generation of Metadata

Metadata is cataloguing in another format (i.e. descriptors). It is a crucial and important element in the digitization process because without generating metadata for any digitized document, it cannot be searchable. The University of Ibadan Kenneth Dike Library

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uses ***Dublin Core Schema for generating metadata.*** Metadata is done on an excel worksheet before exporting it into the appropriate portion of the document. Below is a brief summary sample of the fields that are captured when generating metadata:

Serial No, title, title alternative(if provided in another language), creator(author), subject, description, publisher, contributor(s), date, type, format extent, format medium, type, identifier, source, language, relation, coverage, spatial coverage, temporal, right, DOI (digital object identifier), URL (universal resource locator).

Acquisition of Software and Hardware

Items required in terms of both hardware and software which are procured for digitization in KDL are:

(1) Hardware

Computers and accessories, Scanners, Camera

ZIT machine (Book Drive) - Recently purchased, uses book drive pro 6.0.2 and book drive editor to achieve faster scanning and editing of the digitized materials.

Storage devices: A Server with 4 terabytes capacity has been acquired and installed for University of Ibadan Institutional Repository (UIIR). Also, external storage devices (terabytes) are procured for off-line backup of contents.

(2) Software

Adobe Acrobat 9.0 Pro is used to create and edit PDF files;
Macromedia Fireworks software is a graphic editor for managing the quality of graphics;
Flipping Book Publisher;
Adobe Photoshop CS5;
Microsoft Office, Access, Excel;
Antivirus.

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Procedure Adopted by KDL in Digitizing Materials
The following steps are taken once a printed material is brought to the digitization chamber to be worked on.

- Enter the details of the material using exercise book.
- Check through the material for missing pages (in case of missing pages, note it as a remark in the note book)
- In the event that the material is bulky, dismantle the material so as to make working on it easier
- Start the scanning process using either the macromedia fireworks or HP solution center.
- Cross-check for errors and make corrections where necessary(Quality Assurance)
- Convert to PDF where need be and merge to form a single document.
- Optimize to reduce the size of the file where necessary
- Convert to an OCR (optical character recognition) document which will make the different words in the document searchable.
- Take material to the bindery section for re-binding to its original state in case the material had been dismantled originally.
- Check the materials out of the chamber.

NB. The University of Ibadan Kenneth Dike Library uses JSTOR suggested specification for digitizing materials, which conforms to international standards. The specification is: resolution of 600 dpi and TIFF 24. Digitization effort at Kenneth Dike Library, University of Ibadan is on-going.

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E-RESOURCES SUB-UNIT
Major Activities
This sub-unit is saddled with the responsibility of packaging and making available to the users of the Library materials in electronic formats, through Kenneth Dike Library. Also, this sub-unit creates awareness about the available e-resources as well as advocacy and users' training in the University community environment.

Available E-Resources: Some of the available electronic resources both on subscription and open access are as captured below:

E-Databases on Subscription

- PROQUEST: This spans six (6) centuries, it covers all disciplines with diverse content types needed by researchers. It provides the world's largest collection of dissertations and theses in all fields. Also available are: Three centuries of newspapers; more than 450,000 academic eBooks; collections of important scholarly journals and other content researchers need such as data; and unique digital vaults of primary source materials.

- Pro-Quest's renowned abstracting and indexing enables researchers to find sources in their area of study. The URL is: Search.proquest.com

- EBRARY: This is an online digital library of full texts of over 700,000 scholarly e-books. It provides a set of online database collections that combine scholarly books from over 435 academic, trade, and professional publishers. It also includes sheet music (9,000 titles) and government documents.

- SCIENCE DIRECT: This is a leading full-text scientific database offering journal articles and book chapters from nearly 2,500 journals and 26,000 books. The journals are grouped into four main sections: *Physical Sciences and Engineering*, *Life Sciences*, *Health Sciences*, and *Social Sciences and Humanities*. The URL is: *Sciencedirect.com*

- IMF E-LIBRARY: This database covers: Business and Economics, Education, Law, Medicine, Nature, Political Science, Social Science, Technology and Engineering.

- *http://www.elibrary.imf.org/*

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- JSTOR: A journal store with resources on ALL subjects. This resource is IP regulated on campus. 0FF campus access is by the token method that requires registration. Follow the link provided from a computer on a UI Net, and a user's name and password could be created for individuals which can then... The URL is: *http://www. Jstor.org*

- HINARI: Health Inter Network Access to Research initiative The HINARI programme, set up by WHO together with major publishers, enables developing countries to gain access to one of the World's largest collections of biomedical and health literature. The URL is: *http://www. who.int/hinari*

- AGORA: Access to Global Online Research in Agriculture. The AGORA programme, set up by the food and Agriculture Organization of UN (FAO) together with major publishers, enables developing countries to gain access to an outstanding digital library collection in the field of food, agriculture, environmental science and related social sciences. The URL is: *http://www.aginternetwork.org*

- OARESCIENCE: Online Access to Resources on the Environment. *http://www.oaresciences.org*

E-Databases on Open Access:

- INTECHOPEN: All Subject Areas especially Basic Medical Sciences. The URL is: *http://www.intechopen.com/*

- ERIC: ERIC (Education Resources Information Centre) is a comprehensive database containing abstracts of journal articles, reports, curriculum guides, conference proceedings, etc. It covers all areas of education at all age and grade levels. ERIC Documents 1993+ is now freely available online. The URL is: *http://eric.ed.gov/*

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- BOOKBOON: Free E-Books. The URL is: *http://www.bookboon.com*

- DOAJ: This service covers free, full text, quality controlled scientific and scholarly journals. There are 2411 journals in the directory. Currently 708 journals are searchable at article level. The URL is: *http://www.doaj.org*

- DOAB: Free E-Books Access. The URL is: *http://www.doab.org*

- AJOL: This is a service to provide access to African published research, and increase worldwide knowledge of indigenous scholarship. The URL is: *http://www.ajol.info/*, etc.

EMERGING TECHNOLOGY CREW (ETC) SUB-UNIT

Major Activities

This sub-unit performs the role of exploring, evaluating, promoting and implementing various emerging technologies/application of current and emerging technologies for use in the Library system. This is aimed at enhancing Library's advocacy and outreaches. In addition, this sub-unit:

- Identifies, evaluates, and implements the application of current and emerging technologies for library and information management and educational technology to determine relevance to the library—such as instant messaging, social networking, content management systems, mobile computing, open source, open content, and other digital capabilities;
- Identifies and manages social media software, applications and other emerging technologies;
- Integrates social media and electronic communications technologies into the Library's marketing, outreach and public relations efforts;

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- Shares strategies, techniques, and best practices for using emerging technologies to support Teaching, Learning and Research (TLR) initiative of the University of Ibadan;
- Initiates, design and provide effective training known as "ETC Training" for staff, students and faculty via workshops, presentations, lectures, tutorials, one-on-one instruction, online tutorials and other methods, and lots more.

In conclusion, the aforementioned notwithstanding, the systems unit is set to put in its best in respect of IT deployment and implementation in the entire University Library system, which is aimed at enhancing our information services delivery. This, to a large extent, will enable us to contribute our quota to achieving the vision and mission of the University, particularly Teaching, Learning and Research (TLR) initiative.

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