



## **BABCOCK UNIVERSITY**

COURSE OUTLINE TEMPLATE PREPARED BY THE AVP, INSTITUTIONAL EFFECTIVENESS

SCHOOL: Babcock Business School

DEPARTMENT: Information Resources Management

SEMESTER /SESSION: 2016-2017 (First Semester)

**COURSE CODE AND TITLE: MLIS 891: DIGITAL LIBRARY**

**DAY OF CLASS:**

**NO OF UNITS: 2**

**TEACHER'S NAME: Babalola, Yemisi T. (PhD)**

**VENUE FOR CLASS:**

**OFFICE ADDRESS: No 2, 1st floor,  
Block A, Babcock Business School**

**OFFICE HOURS:**

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### **OUR VISION STATEMENT**

A first-class Seventh-day Adventist institution, building servant leaders for a better world.

### **OUR MISSION STATEMENT**

Building leadership through Christian education; transforming lives, impacting society for positive change. To achieve our mission, we are committed to:

- Achieving excellence in our teaching, research program, and service delivery
- Imparting quality Christian education
- Instilling Christ-like character to the members of our Community

### **OUR CORE VALUES**

- |                               |                 |
|-------------------------------|-----------------|
| • Excellence                  | -Our Culture    |
| • Integrity                   | -Our Promise    |
| • Accountability              | -Our Moral      |
| • Servant Leadership          | -Our Strength   |
| • Team Spirit                 | -Our Dignity    |
| • Autonomy and Responsibility | -Our Passion    |
| • Adventist Heritage          | -Our Commitment |

### **OUR PHILOSOPHY**

Babcock University's philosophy is anchored on the harmonious development of the intellectual, physical, social, and spiritual potentials of our students, inspiring stable and noble character needed for effective leadership and service in the society.

**CORPORATE IMAGE STATEMENT:** A center of excellence for character development and scholarship; a socially responsive, responsible, and accountable institution in matters of commitment and action.

## **COURSE DESCRIPTION**

### **MLIS 893: DIGITAL LIBRARY**

**2 CREDITS**

Research, development and evaluation issues in digital libraries including collection development and digitization, provision of access to multimedia materials, access strategies and interface, metadata and interoperability and implications for digital libraries with respect to policy and social issues.

## **COURSE CONTENT**

Digital libraries have emerged in response to the demand for equitable access to information through application of Information and Communication Technologies. The growing number of digital library initiatives and projects at international and national levels attest to the inevitability of the phenomenon for national development. The need to train competent information professionals who can adapt to the dynamism of the digital environment therefore becomes apparent.

## **COURSE OBJECTIVES**

### **Course Objectives**

The objective of this course is to:

1. acquaint students with the theoretical and practical knowledge required to understand the creation, organization, preservation and use of information in digital libraries.
2. provide the baseline education that students need to cope with the evolving world of digital library practice, development and research.
3. Help students understand and manage issues related to access, organization and preservation of digital resources
4. Appreciate the digital library as global phenomenon and be familiar with its current and future trends.

## **RECOMMENDED TEXTBOOK**

1. Sitts M.K. (Ed.) (2000). Handbook for digital projects: A management tool for preservation and access
2. First Edition Chowdhury, G.G. & Chowdhury, S. (2007). *Introduction to digital libraries*. Facet Publishing, 7, Ridgmount Street, London WC1E 7AE.
3. Marcum, D.B. & George, G. (2006). *Digital library development: The view from Kanazawa*. Libraries Unlimited, 88 Post Road West, Westport, CT 06881.
4. Pushplata, S. (2008). *Copyright in Academic Libraries in Digital Environment* Ess Publications, New Delhi.
5. Kling, R. & Elliott, M. (n.d.). Digital Library Design for Usability
6. Purushotam, T. (2013). *Digital Libraries and Digitization* APH Publishing Corporation, Ansari Road, Darya Ganj, New Delhi- 110 002.

7. Purushotam, T. (2008). *Digital Library* APH Publishing Corporation, Ansari Road, Darya Ganj, New Delhi- 110 002.

### **COURSE REQUIREMENTS:**

**CLASS ATTENDANCE:** - “Every student is required to attend classes regularly and punctually, unless ill or prevented by some recognized emergency. Students who absent themselves from class for more than three weeks during the semester shall merit an F grade. Authorized leave of absence from campus does not excuse the student from classes, or relieve the student of the required course work’ (*BU Academic Bulletin 2012-2015 p.13*).

**PARTICIPATION:** -Students are to actively engage in topic discussion and sharing of ideas in class.

**TARDINESS/ CONDUCT OF STUDENTS IN CLASS:** - Lateness to class is unacceptable; students are not allowed to operate their cell phones, iPods and other electronic mobile gadgets during classes, except with the permission of the teacher. Eating and chewing off bubble gums and drinking (water exempted) is also not allowed except with the permission of the teacher. Very importantly, students are required to dress in compliance with the university dress code and wear their identity cards while in class.

**SHORT DEVOTIONALS/ PRAYER:** - Spiritual nurture is a part of whole person development, and team spirit is our strength; thus, every student is required to participate in the devotional exercise and prayer in class.

**SUBMISSION OF ASSIGNMENT:** The teacher will give directive for submission of assignment.

**LATE ASSIGNMENTS:** Assignments could be turned in earlier, but not later than the deadline set by the teacher.

**GUIDELINE FOR WRITTEN WORK:** Guidelines will be set for specific assignments.

**ACADEMIC INTEGRITY/HONESTY:**“Babcock University has a zero tolerance for any form of academic dishonesty. Morally and spiritually, the institution is committed to scholastic integrity. Consequently, both students and staff are to maintain high, ethical Christian levels of honesty. Transparent honest behavior is expected of every student in all spheres of life. Academic dishonesty include such things as plagiarism, unauthorized use of notes or textbooks on quizzes and examinations, copying or spying the test or paper of another student (formal or take-home), talking to another student during examinations. Academic matter would automatically results in a failing grade for the examination, and suspension, or outright dismissal from the university. Academic dishonesty issues are referred to SPEAM (Senate Panel on Examination and Academic Misconduct) who investigates and makes recommendations to Senate. Penalties for examination and

academic misconduct are spelt out in the *student's handbook* and in other regulations as published from time to time” (*BU Academic Bulletin2012-2015 p.18*).

**GRIEVANCE PROCEDURE**

“Students who believe that their academic rights have been infringed upon or that they have been unjustly treated with respect to their academic program are entitled to a fair and impartial consideration of their cases. They should do the following to effect a solution:

- 1.Present their case to the teacher(s) concerned
- 2.If necessary, discuss the problem with the Head of Department
- 3.If agreement is not reached at this level, submit the matter to the School Dean
- 4.Finally, ask for a review of the case by the Grievance Committee
5. A fee is charged for remarking of scripts. If a student’s grievance is upheld after an external examiner has remarked the script, the grade would be credited to the student. The lecturer will be given a letter of reprimand and will be asked to refund the fees to the student. If the student’s grievance is not sustained, the student will be given a letter of reprimand and the original grade retained” (*BU Academic Bulletin2012-2015 p.18*).

**TEACHING/LEARNING METHODOLOGIES:** Lectures and class discussions

**COURSE ASSESSMENT/EVALUATION**

*Continuous Assessment:*

Class Attendance:	5% }	}	=40%
Quizzes & Tests:	10% }		
Assignments:	10% }		
Mid-Semester Exam:	15% }		
Final Semester Exam:	60%		

**GRADE SCALE**

Grades	Marks- Quality	Range Points	Definition
A	80-100	5.00	Superior
B	60-79	4.00	Above Average
C	50-59	3.00	Average
D	45-49	2.00	Below Average

E	40-44	1.00	Pass
F	0-39	0.00	Fail

Currently, the 5-point gradingsystem adopted by the University Senate translates as follows:

**INCOMPLETE GRADE:** An incomplete grade may only be assigned to a student upon request, due to an emergency situation that occurred within that semester, which prevented completion of an/some assignments, quizzes, or examination. Such a student would complete a contract form, obtainable from the Registrar, after agreement with the teacher. The form must be signed by the teacher, the student, the HOD, the dean, the Registrar, and the Senior Vice President (SVP) before contract begins. The original copy of the incomplete form will be sent to the Registrar with copies to the teacher, the student, the HOD, the dean, and the SVP. An incomplete grade (I) reverts to the existing grade if contract is not completed by the end of the following semester (including summer semester, except for examinations), (*BU Academic Bulletin 2012-2015 p. 20*).

### STUDENTS WITH DISABILITY

“Babcock University seeks to provide a conducive environment for optimal living and learning experience. While the university is working towards facilities that accommodate persons with disabilities, provisions will be made for students with disabilities under the following conditions. Students with disabilities are to:

- a. Report to Student Support Services for assessment, and obtain a clearance/recommendation at the commencement of the semester or as soon as disabling incidence occurs
- b. Show the clearance/recommendations to relevant university officials at the commencement of the semester or as soon as disabling incidence occurs
- c. Maintain ongoing contact with Student Support Services” (*BU Academic Bulletin 2012-2015 p. 20*).

### PROPOSED DAILY/WEEKLY OUTLINE OF SCHEDULE

DATE	TOPIC	CLASS ACTIVITIES	ASSIGNMENT
<i>Week 1</i>	Evolution of digital libraries- background, definitions, historical development	Lecture & Class Discussion	
<i>Week 2</i>	Collection development in Digital Libraries	Lecture & Class Discussion	
<i>Week 3 &amp; 4</i>	Preservation and Sustainability of Digital Libraries	Lecture & Class Discussion	

<b>Week 5 &amp; 6</b>	Interoperability in Digital Libraries	Lecture & Class Discussion	
<b>Week 7</b>	Digital Rights Management	Lecture & Class Discussion	
<b>Week 8</b>	Digital Library Services	Lecture & Class Discussion	
<b>Week 9</b>	Usability of DLs	Lecture & Class Discussion	
<b>Week 10</b>	Education for Digital Libraries	Lecture & Class Discussion	
<b>Week 11</b>	Digital Library Services	Lecture & Class Discussion	
<b>Week 12</b>	<b>Revision</b>	Lecture & Class Discussion	
<b>Week 13</b>	<b>Examination</b>		
<b>Week 14</b>	<b>Examination</b>		
<b>Week 15</b>	<b>Examination</b>		

## **Week 1. Introduction and Overview of Digital Libraries**

What is a digital library?

What is not a digital Library?

Required Reading:

- Akst, D. (2003). *The digital library: It's future has arrived*. Carnegie Reporter.
- President's Information Technology Advisory Committee (2001). *Digital Libraries: Universal Access to Human Knowledge – Report to the President*
- Kuny, T. & Cleveland, G. (1996). *The Digital Library: Myths and Challenges*. IFLA Conference paper.

- Borgman, C. L. (1999). What are digital Libraries -- Competing Visions, *Information Processing & Management*, 35(3), 227-243.
- Nunberg, G. (2009). Google's Book Search: A disaster for scholars. *The Chronicle of Higher Education*. August 31, 2009.
- Rothman, D. H. (2011). It's time for a national digital library system. *The Chronicle Review*. <http://chronicle.com/article/Its-Time-for-a-National/126489/>

#### Recommended Reading:

- Arms, Williams. *Digital Libraries*. Chapters 1-2.
- Borgman, Christine. *From Gutenberg to the Global Information Infrastructure*. Chapters 1-2
- *Digital Libraries: Definitions, Issues and Challenges*

## Week 2. Vision and History of Digital Libraries

Digital Libraries: History and vision

DLI & DLI2, NSDL Projects

#### Required Reading:

- Bush, V. (1945). "As We May Think" *The Atlantic Monthly*. 176(1), 101-108.
- Mischo, W. H. (2005). *Digital Libraries: Challenges and influential work*. *D-Lib Magazine*, July/August 2005.
- Arms, Williams. *Digital Libraries*. Chapter 4: Innovation and Research
- TED Video (20 minutes): Brewster Kahle builds a free digital library. [http://www.ted.com/talks/brewster\\_kahle\\_builds\\_a\\_free\\_digital\\_library.html](http://www.ted.com/talks/brewster_kahle_builds_a_free_digital_library.html)
- DPLA – Digital Public Library of America

#### Recommended Reading:

- NSF/DARPA/NASA Digital Libraries Initiative <http://www.dlib.org/dlib/july98/07griffin.html>
- Google Book Digitization Project (2004)
  - *The Infinite Library*
- Greenstein and Thorin (2002). *The Digital Library: A Biography*

System Exploration: [Memex Prototype](#)

### **Week 3. Metadata and Foundations of Digital Libraries**

Metadata

Digital Library Manifesto

Required:

- [Metadata Made Simpler](#) (2001)
- [Introduction to Metadata](#) (online edition , version 3.0, 2008)
- [What is a Digital Library Anymore, Anyway?](#) (D-Lib Magazine, Nov. 2005, doi:10.1045/november2005-lagoze)
- [Digital Library as Network and Community Center](#) (D-Lib Magazine, Dec. 2006, doi:10.1045/december2006-manduca)
- [Setting the Foundations of Digital Libraries](#), (D-Lib Magazine, March/April, 2007).

Recommended:

- Arms, Williams. [Digital Libraries](#). Chapter 10: Information Retrieval and Descriptive Metadata
- [A Service Framework for Libraries](#) (D-Lib Magazine, July/August, 2006)

System Exploration: [IPL Digital Library](#)

### **Week 4. Architecture and Systems of Digital Libraries**

Digital Objects and DOI

Digital Library Architectures

Distributed Models of digital libraries

Required Reading:



- Erickson, John. "Digital Object Identifier", In McGraw-Hill Yearbook of Science & Technology 2003.
- DOI: A 2003 Progress Report (D-Lib Magazine, June, 2003. DOI: 10.1045/june2003-paskin).
- An Architecture for Information in Digital Libraries (D-Lib Magazine, Feb. 1997)
- Brogan, M. *Contexts and Contributions: Building the Distributed Library* (DLF Report, November 2006).
- Goncalves, MA, Fox, EA, Watson, LT, et al. (2004). Streams, structures, spaces, scenarios, societies (5S): A formal model for digital libraries. *ACM Transactions of Information Systems*, 22 (2): 270-312.

#### Recommended Reading:

- Arms, Williams. *Digital Libraries*. Chapter 12: Object Models, Identifiers, and Structural Metadata.
- *A Metadata Architecture for Digital Libraries* (1998)
- *DSpace: An Open Source Dynamic Digital Repository* (D-Lib Magazine, January, 2003. DOI: 10.1045/january2003-smith).
- Fedora Architecture: <http://www.fedora.info/>

System exploration: [DSpace](#)

## Week 5. Content Organizations in the Digital Space

Indexing & knowledge representation

KOS, ontology and topic maps

#### Required Reading:

- Hodge, G. (2000). *Systems of Knowledge Organization for Digital Libraries: Beyond Traditional Authority Files*.
- The TAO of Topic Maps
- NKOS – Networked Knowledge Organization Systems
- SKOS, <http://www.w3.org/2004/02/skos/>

#### Recommended Reading:

- Wrightson, A. (2001). Topic maps and Knowledge Representations
- Arms, C., and Arms, W. "Mixed Content and Mixed Metadata: Information Discovery in a Messy World." In *Metadata in Practice*, edited by D. Hillmann and E. Westbrooks, ALA Editions, 2004.

System Exploration: [Drupal](#)

## Week 6. Digital Collections and its Evaluation

Defining digital collections

Building digital collections

Evaluating digital collections

Required Reading:

- [Defining Collections in Distributed Digital Libraries \(1998\)](#).
- [Smith, A. \(2001\). Strategies for Building Digitized Collections.](#)
- [CDL Guides for Digital Objects \(2007\)](#).
- [Atkinson, R. "Library functions, scholarly communication, and the foundation of the digital library: laying claim to the control zone." Library Quarterly, 66\(3\), 239-265. 1996.](#)
- [Emerging tools for evaluating digital library services: Conceptual adaptations of LibQUAL+ and CAPM \(Journal of Digital Information, 4\(2\), June, 2003\).](#)

Recommended Reading:

- [Building Digital Collections: Technical Information and Background Papers \(Library of Congress\)](#)
- [NISO \(2007\). A Framework of Guidance for Building Good Digital Collections \(3<sup>rd</sup> edition\).](#)
- [Digital Library Content and Course Management Systems: Issues of Interoperation. \(DLF Report, July, 2004\).](#)

System Exploration: [Fedora](#)

## Week 7. Access and User Interfaces to Digital Libraries

Resource discovery and searching

Interface design

Search and access interfaces

Information visualization

### Required Reading:

- Paepcke, A.(1996). Digital Libraries: Searching Is Not Enough. D-Lib Magazine, May 1996.
- Smith, A. G. (2000) Search features of digital libraries. Information Research, 5(3)
- Bates, Marcia J. (2002). The cascade of interactions in the digital library interface. Information Processing & Management, 38(3), 381-400.
- Martin, R. S. (2003). Reaching across Library Boundaries. In: Emerging Visions for Access in the Twenty-first Century Library. (CLIR report &CDL Conference Proceedings).
- Manduca, C. A.; Iverson, E. R.; & Fox, S. (2005). Influencing user behavior through digital library design (D-lib Magazine, May, 2005).
- Arko, R. A.; Ginger, K. M.; Kastens, K. A.; & Weatherley, J. (2006). Using Annotations to add value to a digital library for education. (D-lib Magazine, May, 2006).

### Recommended Reading:

- User-centered iterative design for digital libraries (D-Lib Magazine, Feb. 1996).
- An Atlas of Cyberspaces --Information Space Maps
- National Research Council. More than Screen Deep: Toward Every-Citizen Interfaces to the Nation's Information Infrastructure, 1996: (Read at least the Executive Summary).
- CDL user interface principles.

System Exploration: Visual Concept Explorer

## Week 8. Social Factors of Digital Libraries

Copyrights & Open access

Security, privacy, and Intellectual property

Digital Preservation

### Required Reading:

- [Copyright in the Digital Library](#)
- Besek, June. [Copyright Issues Relevant to the Creation of a Digital Archive: A Preliminary Assessment.](#)
- [Digital Rights Management and the Break Downs of Social Norms \(First-Monday:   
<http://firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/1097/1017>\)](#)
- [Copyright issues in Open Access Research Journals.](#) (D-Lib Magazine, Feb. 2006)
- Jantz, R. & Giarlo, M. J. (2005). [Digital Preservation: Architecture and Technology for Trusted Digital Repositories.](#) (D-Lib Magazine, June 2005).

### Recommended Reading:

- [Statement of Senator Brownback on introducing the Consumers, Schools, and Libraries Digital Rights Management Act of 2003.](#)
- [Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities \(2003\)](#)
- [DRM and Privacy \(Cohen, Julie E. "The Law and Technology of Digital Rights Management: DRM and Privacy." Berkeley Technology Law Journal 18 \(Spring 2003\) : 575-617\).](#)
- [Transitions in Intellectual Property for Digital Libraries](#)
- [Copyright Law for the Digital Library: A Bibliography \(Sept. 2003 version\)](#)
- [The Digital Millennium Copyright Act of 1998](#)
- [Intellectual Property Digital Library](#)
- [Preservation risk management for Web resources \(D-Lib Magazine, Jan. 2002\).](#)
- [National Digital Information Infrastructure Preservation Program](#)

## Week 9. Digital Librarians

Users' needs and long tail

Digital librarians

### Required Reading:

- Coleman, A.; & Sumner, T. (2004). Digital Libraries and User Needs: Negotiating the Future. *Journal of Digital Information*, 5(3), <http://journals.tdl.org/jodi/article/view/119/123> .
- Covey, Denise. Usage and Usability Assessment: Library Practices and Concerns. *CLIR* 105, 2002.
- [The Long Tail](#) (Wikipedia).
- Dempsey, L. Libraries and the long tail. (*D-Lib Magazine*, April, 2006).
- Choi, Y. & Rasmussen, E. (2006). What do digital librarians do? *JCDL* 2006,
- Choi, Y. & Rasmussen, E. (2006). What is Needed to Educate Future Digital Librarians (*D-Lin Magazine*, Sept. 2006).
- Marion, L. (2001). "Digital Librarian, Cybrarian, or Librarian with Specialized Skills: Who Will Staff Digital Libraries?" *Crossing the Divide: Proceedings of the Tenth National Conference of the Association of College and Research Libraries*. Denver, Colorado, March 15-18, 2001), pp143-149. [The first version of this article was developed in this class].

### Recommended Reading:

- Hastings, K. & Tennant, R. (1996). How to Build a Digital Librarian. *D-Lib Magazine*, November 1996.
- Steele, C.; Guha, M. (1999). "Staffing the Digital Library in the 21st Century".
- Tennant, R. (1998). "The Most Important Management Decision: Hiring Staff for the New Millennium". *Library Journal*, February 15, 1998.
- Tennant, R. (2002). "Digital Libraries – The Digital Librarian Shortage". *Library Journal*, March 15, 2002.

System Exploration: [MediaWiki.org](http://MediaWiki.org)

## Week 10. Future of Digital Libraries

### Semantic Digital Libraries

### Web 2.0, Library 2.0, and Digital Libraries 2.0

#### Required Reading:

- [The national Centre for Text Mining: A Vision for the Future](#) (Ariadne Magazine, 2007).
- Larsen, R. L. & Wactlar, H. D. (2003). “[Knowledge Loss in Information](#)”, final report of NSF Workshop on research directions for digital libraries.
- McDermott, R. (1999) Why information technology inspired but cannot deliver knowledge management; *California Management Review*, 41(3), 103-118 Summer 1999. (PDF file for this document is in this week’s notes folder).

#### Recommended Reading/Resources:

- Lesk, M.E., How much information is there?  
<http://www.lesk.com/mlesk/ksg97/ksg.html>
- [Digital Collections, Digital Libraries and the digitization of cultural heritage information](#). (First Monday, May 2002).
- [Digital Talking Books](#)