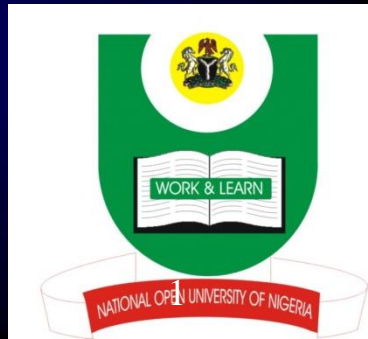
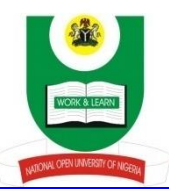


# Course Materials Development in the 21<sup>st</sup> Century

**Olugbemiro Jegede**



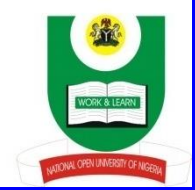


# FOCUS



- ✓ Introduction
- ✓ Types of Materials Development
- ✓ Materials and levels of Development
- ✓ Approach to Course Material Development
- ✓ Delivery Modes
- ✓ Components of Programme and Course Design
- ✓ The Role of Technology
- ✓ E-Learning specifications
- ✓ LMS and LCMS
- ✓ Webagogy
- ✓ Design Pitfalls



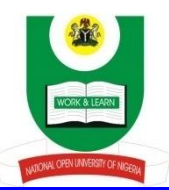


# Contacts

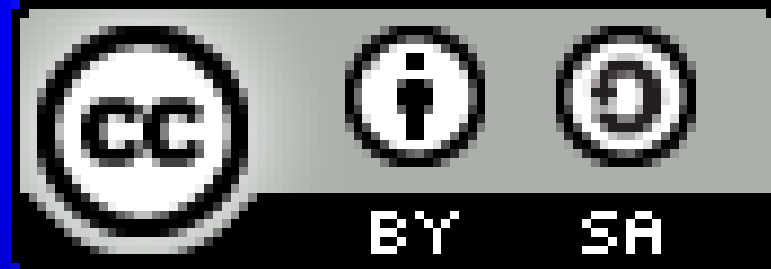


- Telephone: (+234) 8034116363
- [jegeдео@gmail.com](mailto:jegeдео@gmail.com),
- [ojegeдео@noun.edu.ng](mailto:ojegeдео@noun.edu.ng),
- [jegeдео@olugbemirojegeдео.com](http://jegeдео@olugbemirojegeдео.com).
- Website:  
[www.olugbemirojegeдео.com](http://www.olugbemirojegeдео.com)



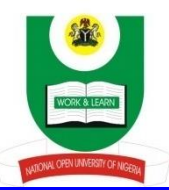


# Creative Common Licence



**Attribution-ShareAlike (CC BY-SA)**





# Materials



**Course Development**

**Delivery Modes**

**Developed from scratch**

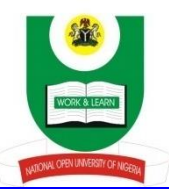
- new materials
- new format
- library search

**Course adoption**

- acquired
- minor revision
- 10% modified

**Course adaptation**

- Acquired/existing
- Major revision
- >30% modified/addition

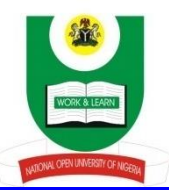


# Delivery Modes



- print
- telephone
- audiocassettes
- videocassettes
- radio broadcast
- TV broadcast
- CD-Rom/VCD/DVD
- computers
- multimedia
- e-learning
- m-learning
- Open Educational Resources





# Material Development



- **Team Approach (Subject Matter Experts, Instructional Designers, Language Editors, Graphic Designers, Multimedia Producers)**
- **Instructional Multimedia design**
- **Blueprint, Outline Programme Proposal (OPP) and Detailed Programme Proposal (DPP)**
- **Usually 9-12 months head start**
- **Cycle of review (3 to 5 years)**

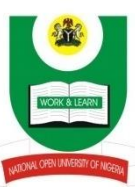


# Programme Design

- The process for the design is in two parts:
  - pre-design information and
    - The pre-design information provides basic information required for the courses in each programme.
  - the course design. The programme
- The programme competencies
- Courses in the programme
- Mapping of Courses to Programme Competences





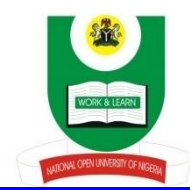


# Course Design



- **Course Information**
- **Course competency(s)**
- **Course Objectives**
- **Structure: Derived the Modules and Units from the course objectives to meet the expected course competency(s)**
- **Alignment. Defined Unit Intended Learning Outcomes (ILOs) and align the teaching approach, learning activities, resources/learning devices, assessments and Required Hours for Study required.**
- **Course/Programme Evaluation**



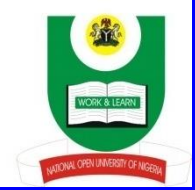


# Course Team



- **Course Developer and or Course Writer (Subject matter Expert)**
- **Instructional Designer**
- **Learning Technologist, Graphic Designer**
- **Content Editor**
- **Copy Editor**





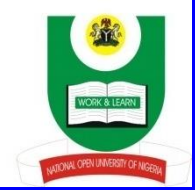
# Course Template 1



## ■ Basic Course Information

- Course Code: **CSS 101**
- Course Title: ***Introduction to Criminology 1***
- Credit Unit: **2**
- Course Status: ***Compulsory***
- Semester: ***1st***
- Required Study Hour: ***4 hours per week***
- Course Edition: ***First***





# Course Template 2



## ■ Course Guide

- Introduction
- Course Objectives
- Working Through This Course
- Study Units: *Modules and Units*
- References and Further Readings
- Presentation Schedule
- Assessment: Continuous and Final
  - CBT and participation and portfolio presentation
- *How to Get the Most from the Course*
- *Facilitation*

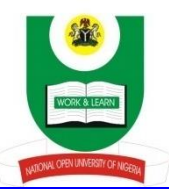


# Course Template 3

## ■ Course Contents

- Modules: *Title and all Units listed*
- Unit: *Title and Contents listed*
- Content: *e.g. Unit 1*
  - Introduction
  - Objectives (*Intended Learning Outcomes*)
  - Main Content (*break into sections or chunks*)
  - Self-Assessment Exercise
  - Conclusion
  - Summary
  - Tutor-Marked Assignment
  - References/Further Reading
    - Online Resources



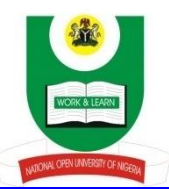


# Student Workload and Study Hours

- The student study hours are determined by
  - credit unit,
  - hours of self-study,
  - hours to respond to forum discussions and posts,
  - hours to do learning activities and assignments,
  - hours to participate in facilitation through video conferencing. Every Unit will have one hour of facilitation through video conferencing.
- Due consideration is also given to:

■ The number of hours per day	-	24 hours
■ Recommended hours of sleep	-	8 hours
■ Official working hours per day	-	8 hours
■ Other Activities	-	8 hours



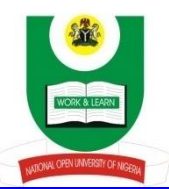


# Determination of Unit Length



- Most students loose interest in reading text after 30 minutes, and on the average students can read and assimilate between 2,400 and 7,000 words per hour.
- Based on this premise a Unit will be between 2 to 4 pages or between 1,200 – 3,200 words.
- Where a lesser number of words are used, there will be more interactivity in the areas of scenarios, animations, videos, web links, etc for further explanations.
- But should be such that can be covered within the recommended hours.





# Determination of Unit Length



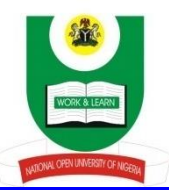
Therefore, the required hours of study are determined thus:

S/N	Weekly Activities per Unit	Hours per Week	
		2 Credit Units	3 Credit Units
1.	Video conferencing per week	1	2
2.	To read and respond to posts including facilitation comments	1	1
3.	Self-study including reading text (may or may not include illustrations), listening to instructional videos if any and responding to self-assessment exercises.	2	3
4.	Assignments (Assignment is at the end of each module and it covers all the units in the module)	1	1
<b>Weekly minimum hours required for study per course</b>		<b>5</b>	<b>7</b>

For 2 credit units, the number of hours required per course per semester of 13 weeks -  $5 \times 13 = 65$  hours of study  
 A student with six courses in a semester for instance will require -  $6 \times 65 = 390$  hours of study

For 3 credit units, the number of hours required per course per semester of 13 weeks -  $7 \times 13 = 91$  hours of study





# Resources/Learning Devices



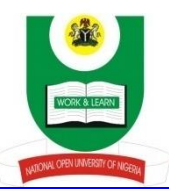
- The resources and learning devices that are compulsory in all the units are classified as **Generic Resources**.

These are:

- Computer/Tablet/Laptop/Mobile Phone
- Internet
- Course Materials
- Instructional Videos of 5 – 10 mins (will be available in all the Units)



- These may not be mentioned and where mentioned may be classified as generic resources.



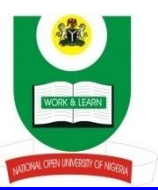
# ICT Development



## Information and communication technology (ICT)

- **Convergence of computing, telecommunications and networking facilities to communicate and share information**
  - **computers, fixed-line communications, mobile phone and other wireless networks, broadband, internet, satellite communications and other networking technologies**
- **Covers any product that will store, retrieve, manipulate, transmit or receive information electronically in digital form**





# Technology

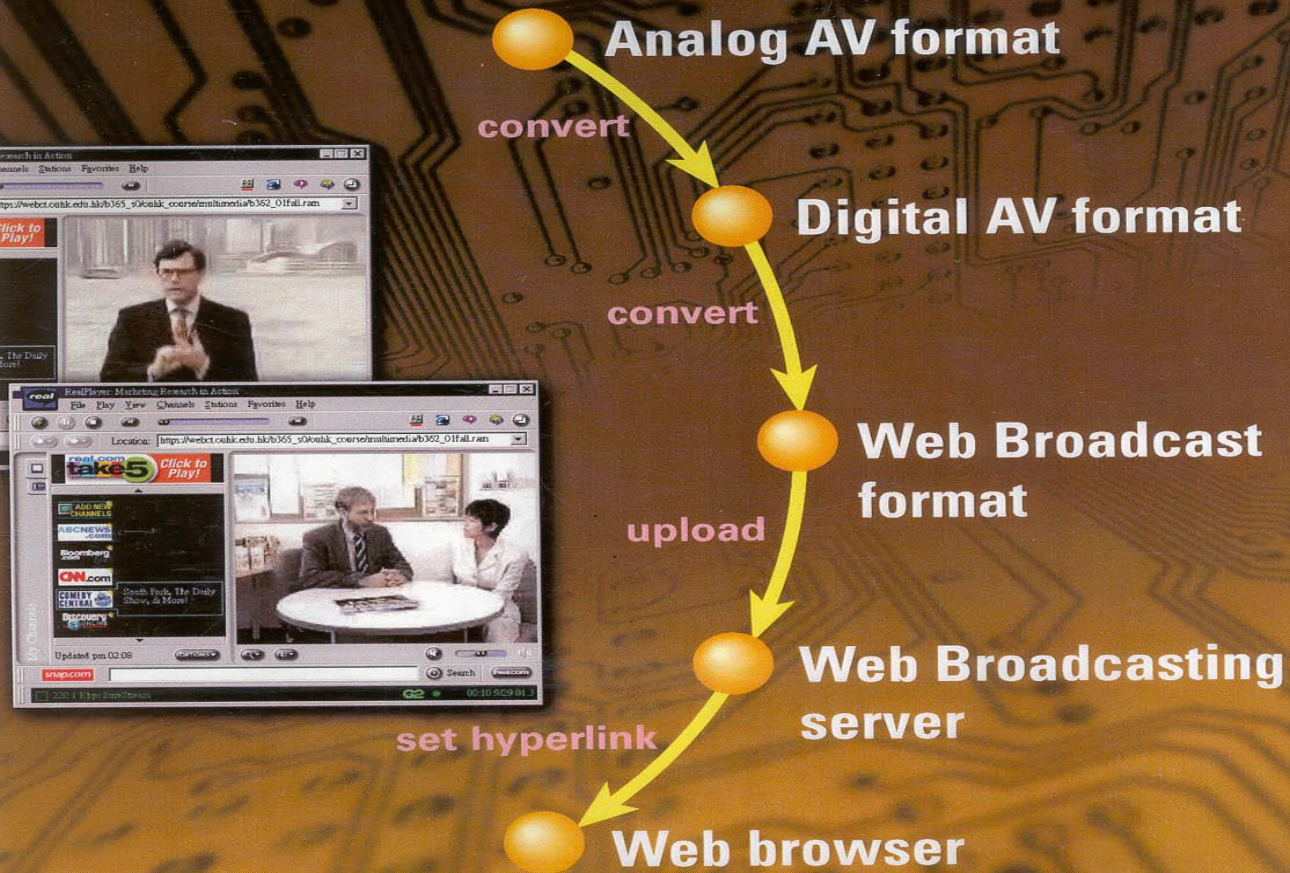


- Only a medium and not the message
- What technologies: multi-media or multimedia?
- Ensure total coverage and reach to all students
- Be as simple as possible
- Consider cost effectiveness
- Review usage and policy regularly





# Flowchart of online audio-visual learning materials development



A decision taken about audio-visual component of online learning materials

This generic model is used to develop the materials



# Flowchart of CD-ROM production



**CD-ROMs have become very common in instructional materials development**

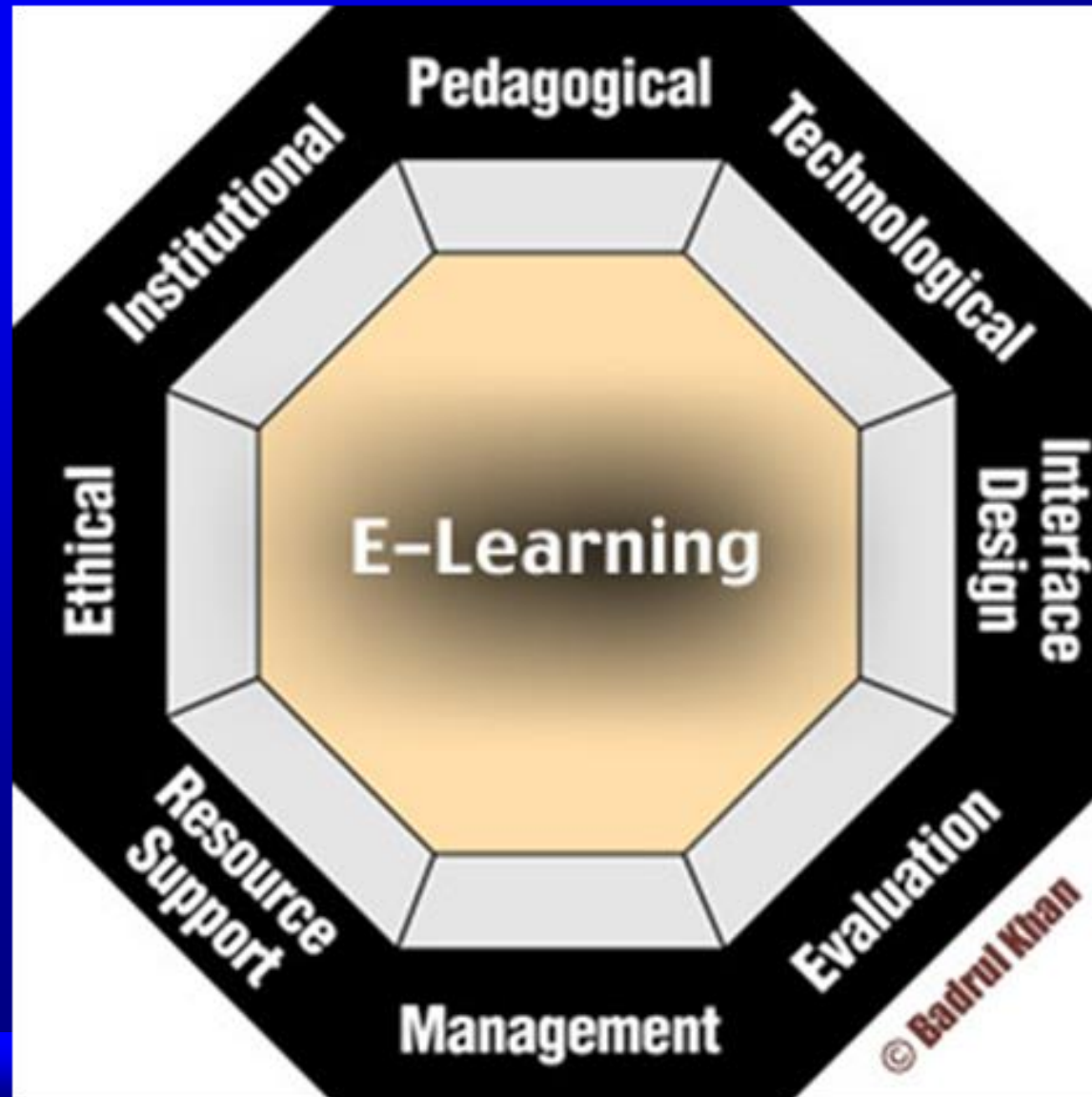
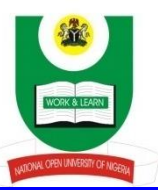
**They hold lots of information, light, easily replaceable**

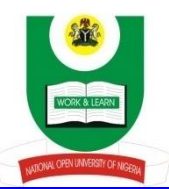
# Flowchart of Online Material Development



**Modern  
Instructional E-  
Learning  
development**

# Patterns of Specs and Standards for E-Learning



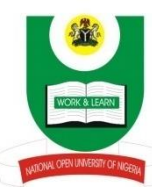


# Use of LMS and LCMS



- A Learning Management System (LMS) is software used for delivering, tracking and managing training/education.
- LMS used for managing training/educational records, distributing courses over the Internet and offering features for online collaboration.
- A Learning Content Management System (LCMS) is software for authoring, editing and indexing e-learning content (courses, reusable content objects).
- An LCMS may be solely dedicated to producing and publishing content that is hosted on an LMS, or it can host the content itself.

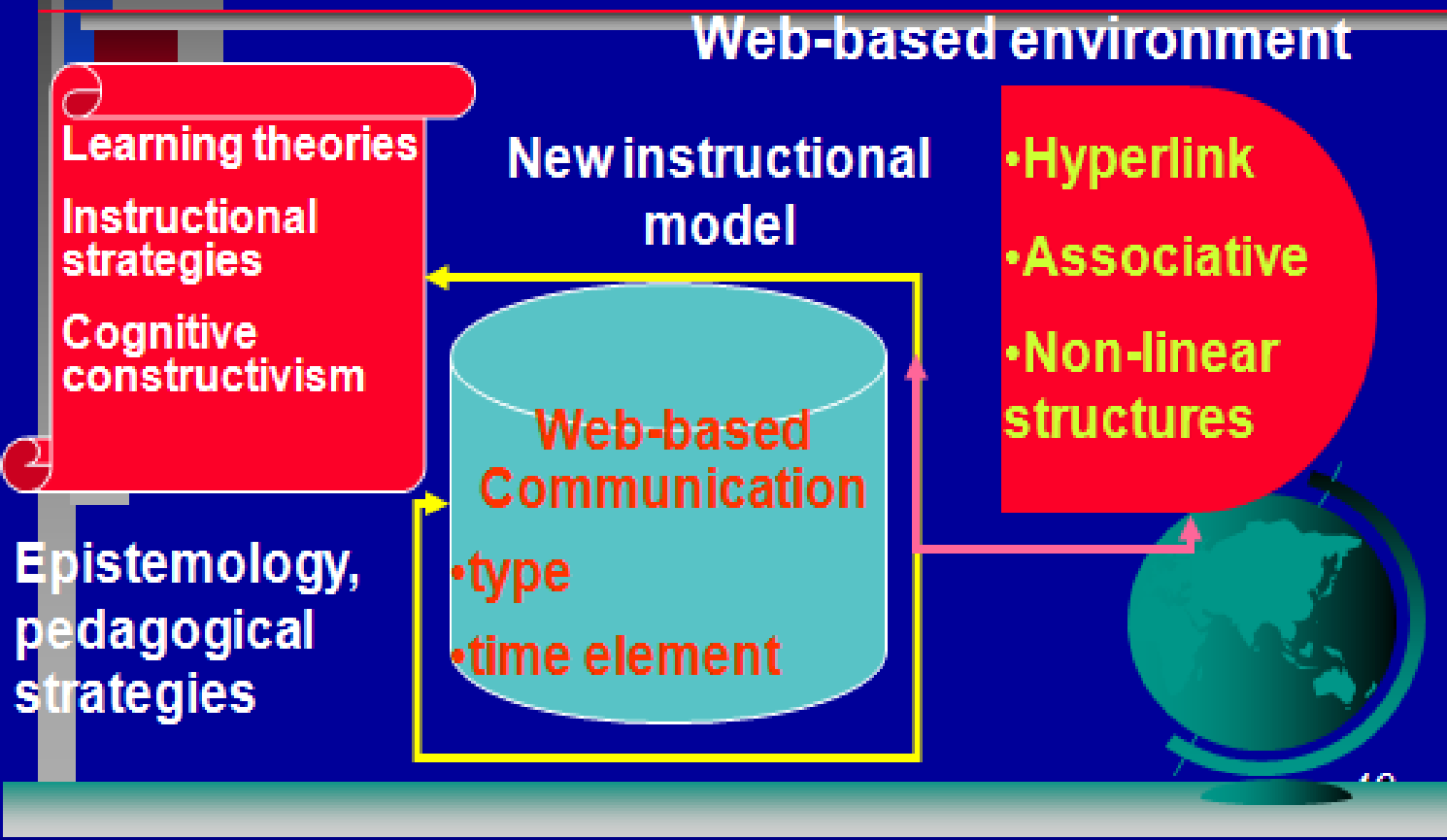




# Webagogy: An E-Learning Course Materials Development Approach



## Webagogy



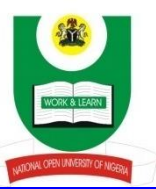
Pedagogical approaches or perspectives:

**Instructional design** – the traditional pedagogy of instruction which is curriculum focused, and is developed by a centralised educating group or a single teacher.

**Social-constructivism** – this pedagogy is used in discussion forums, blogs, wiki and on-line collaborative activities. It is a collaborative approach that opens educational content creation to a wider group



# Conclusion

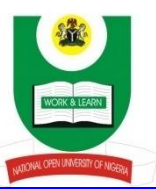


# The Journey of Learning



- The trends come together to demonstrate that Learning is a Journey not a destination
- Constantly close the creativity Gap in Instructional Design
- Reimagine, Redesign, Redeploy
- Instructional Designer's Checklist
- Subject matter Expert Checklist
- Copy Editor's Checklist
- Videographer's Checklist



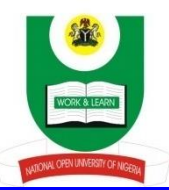


# Top Trends for ID to Note



- **top trends that need the immediate attention of instructional designers:**
  - **Augmented Reality (AR) and Virtual Reality (VR) ...**
  - **Digital Textbooks. ...**
  - **Learning Analytics. ...**
  - **Micro-learning./ Bite-Size Learning ...**
  - **Game-based learning. ...**
  - **Natural User Interfaces. ...**
  - **Mobile Learning...**
  - **Personalised Learning..**
  - **Video as a Learning Modality – Video+Microlearning, Video+social learning, Video+story telling**
  - **Applications (Apps)**



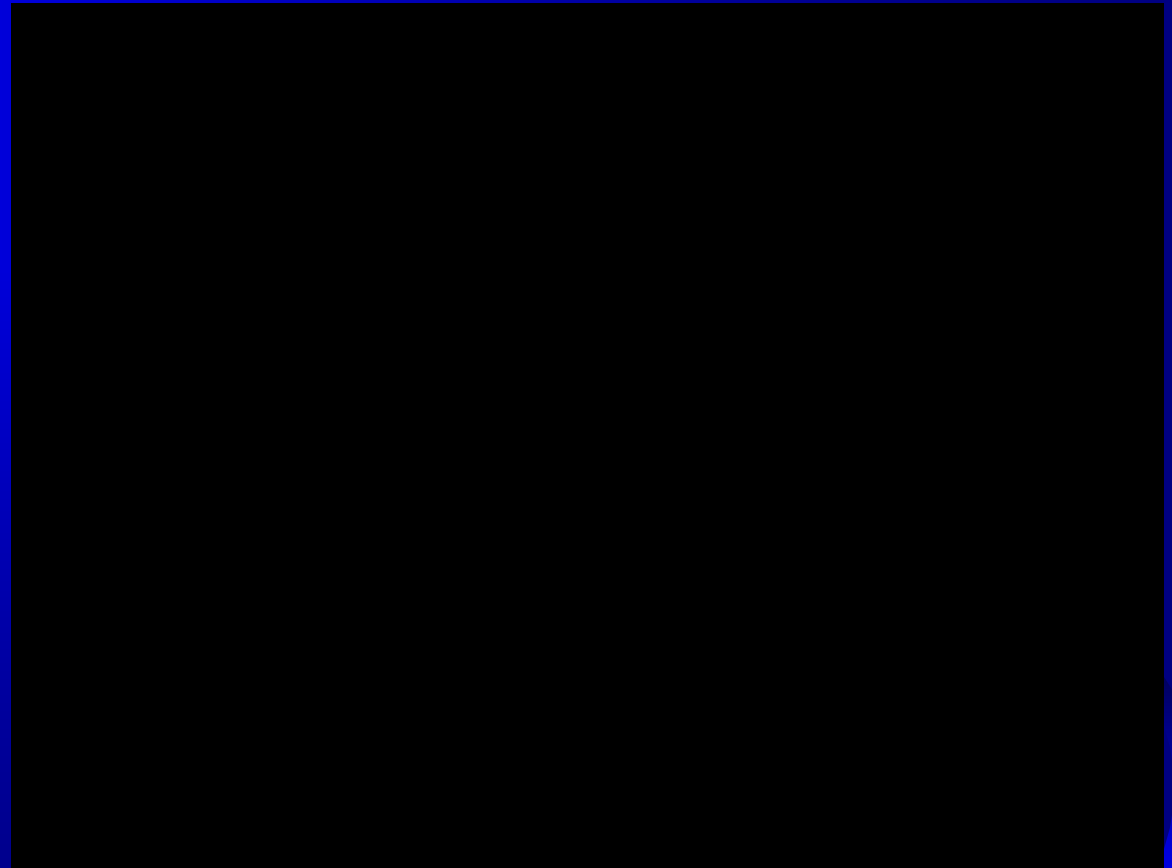


# From Ghetto to the Bank

**Wave**

**to**

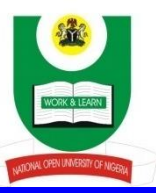
**Wave**



# Design Pitfalls

## 5 INSTRUCTIONAL DESIGN MISTAKES YOU CAN AVOID





# Specific Messages



- **Quality first:** quality digital, open and flexible education
- **Collaboration,** on all levels, on content, courses programmes, methodologies, infrastructure, internationalisation....
- **Take leadership:** for the future we want – lead educational transformation



# Thank you



## Enjoy the rest of the Retreat