

FEATURES

An intensive & pure practical training will be conducted in all tertiary institutions free of charge in the following departments:

- **Electrical/Electronics Engineering,**
- **Hardware Design & Development (manufacturing approach)**
- **Telecommunication Technology**
- **Networking (+ Server Technology)**
- **Software Engineering (+website Development**

METHODOLOGY

CTDI has put up an initiative tagged: **“CREATIVE TECHNOLOGY CENTRE FOR EXCELLENCE” (CTCE)** to create strategic and effective solutions to nationwide educational issues and youth concerns such as: Obsolete learning Method with the use of archaic textbooks; Administrative hiccups; non merit-based system; lack of Researchers & Scientist, ICT skills & infrastructure, access, quality and education funding; missing of knowledge sharing, dissemination, adoption and graduate unemployment.

The initiative (CTCE) has 5 Key elements to put into practice and rotate on in order to achieve the above mentioned objectives and goal.

“CREATIVE LEARNING” (CL)

This is the key area which involves knowledge dissemination among all the students in tertiary institutions in Nigeria, focused areas include:

- **Electrical/Electronics Engineering**
- **Hardware Design & Development (manufacturing approach)**
- **Telecommunication**
- **Networking (+ Server Technology)**
- **Software Engineering (+ website Development)**

Focused departments are: **Computer Engineering, ICT Engineering, Computer Science, Computer Science and Engineering, Electrical Engineering, Electronics and Computer Engineering, Electrical and Computer Engineering, Electrical/Electronics Engineering, Electronics Engineering, Communication Engineering (Telecom Engineering), Information Technology and Software Engineering.**

“CREATIVE COMPETES” (CC)

This is to create a competitive learning environment whereby annual National Competition will be taking place in the above mentioned courses.

The competition will be of two categories:

- (1) Microsoft Imagine Cup Competiti
- (2) In-House National Competition

For the In-House National Competition, projects will be given to all students in groups where the foreign partnered ICT giant company (Microsoft, Cisco, Oracle, Intel, IBM etc.) will review, rank the contestants and present to them the global challenges and latest research in their course area.

Attractive and valuable prizes will be awarded to the group winner.

This is to create an enabling knowledge environment that will support merit based and qualitative education system.

“CREATIVE RESEARCH & DEVELOPMENT/INTELLECTUAL PROPERTY” (CRD/IP)

It is one of the key elements that will be handling latest Research areas.

Through the plugins of CTDI to research centers & Institutes internationally and locally, latest research information would be made available to students through the mobile application platform of CTDI that will be installed on a slate device of “Nspad Global Technology Ltd.”¹

It is also an element that welcomes all young talents and promotes them for successive development. The Centre will make it beneficial to the owner, protect and utilize such idea through its entrepreneurship partnership with the public and private sector.

“CREATIVE GLOBAL NETWORK” (CGN)

This element is a web platform that involves;

- Networking between students in different and same school to share ideas and social network through the web application running on the slate device that will be given to individual students.
- Networking between Nigerian students and their counterparts across the globe to share ideas, in order to meet up with the global education standard.
- Networking between students and research centers & institutes in order to build Nigerian students for research and innovation inline with the current global trend.

The web platform will support live video chat, VoIP, messaging etc.

“CREATIVE GLOBAL MALL” (CGM)

This is an element that is entrepreneurial in nature. It forms a market for CTDI through provision of different services and intellectual property development converted to business.

It will also serve the role of creating mass employment for the nation, through its robust and strategic market niche locally and at offshore.

PROCESS

The training will be widely conducted in all Universities and Polytechnics across Nigeria equitably under ***“CREATIVE TECHNOLOGY CENTRE FOR EXCELLENCE” (CTCE)*** initiative focused in the following departments:

- **Computer Engineering**
- **ICT engineering**
- **Computer Science**
- **Computer Science and Engineering**
- **Electrical Engineering**
- **Electronics and Computer Engineering**
- **Electrical and Computer Engineering**

- **Electrical/Electronics Engineering**
- **Electronics Engineering**
- **Communication Engineering (Telecom Engineering)**
- **Information Technology**
- **Software Engineering.**

PROBLEMS AND SOLUTIONS

1) **Obsolete learning methods with the use of archaic textbooks.**

Solutions: E-learning workshop
 E-textbooks
 CREATIVE GLOBAL NETWORK
 CREATIVE RESEARCH & DEVELOPMENT

2) **Administrative Hiccups**

Solutions: CTDI ANNUAL CONFERENCE
 CTDISTAKE HOLDERS FORUM

3) **Non-merit based system**

Solution: CREATIVE COMPETE

4) **Lack of Researchers & Scientist**

Solutions: CREATIVE RESEARCH & DEVELOPMENT/INTELLECTUAL PROPERTY
 CREATIVE GLOBAL NETWORK

5) **ICT Skills**

Solution: CREATIVE LEARNING
 CREATIVE RESEARCH & DEVELOPMENT

6) **ICT Infrastructure & access**

- Solutions: strategic partner between Nspad Global Tech. Ltd. & CTDI, through provision of broadband internet and CGN platform + E-learning (E-textbook) running on their device.
- Strategic partner between Microsoft & CTDI

7) **Quality**

Solution: CREATIVE LEARNING
 E-Textbook

8) **Funding**

Solutions: CTDI ANNUAL CONFERENCE
 CTDI STAKEHOLDERS FORUM
 Public Private Partnership (PPP)

9) **Missing of Knowledge Sharing, Dissemination & Adoption**

Solutions: CGN
 CC (Microsoft Imagine Cup & In-House National Competition)

10) **Graduate unemployment**

Solutions: CGM
 Public Private Partnership (PPP)
 Nspad Global Tech. partnership

CTDI 5 STRATEGIC PROGRAMMES

1. “Creative Technology Centre for Excellence”

Courses

- Electrical/Electronics Engineering,
- Robust Hardware Design & Development (full manufacturing & production approach e.g. laptop, slate, desktop, mobile projector, e-reader etc.),
- Telecommunication Technology
- Networking (+ Server Technology)
- Software Engineering (+website Development)

Audience

Secondary School Students (Intermediate)

Tertiary Institutions Students (full package)

Public & Private official (Selective/Customized)

Methodology

Creative Learning (CL)

Creative Competes (CC)

Creative Research and Development/ Intellectual Property (CRD/IP)

Creative Global Network (CGN)

Creative Global Mall (CGM)

This is to disseminate an intensive & pure practical training to students at secondary & tertiary level and public & private officials with full access to ICT infrastructure.

2) CTDI ANNUAL CONFERENCE (CTDIAC) (3 days event)

This is to create dialogue among policy makers, industrialist and academics by bringing together stakeholders in Government & private sectors to deliberate on the conference title: **National Conference on Education Improvement, Youth Development & Entrepreneurial Opportunities in ICT: Exploring new Opportunities in “Creative Technology” for National Development**

3) CTDI STAKEHOLDERS FORUM (CTDISF)

The forum is designed to bring major stakeholders together, to review and advice on how CTDI 5 strategic programmes can be upgraded for well implementation.

4) E-LEARNING WORKSHOP & CONSULTATION (EWC)

It involves organizing workshop on E-learning for student, teachers & lecturers in order to migrate from the obsolete learning method to the latest. CTDI is well equipped to proffer solutions & consultation on E-learning implementation.

5) CREATIVE CONSULT (CCT)

CTDI has higher potential to consult on “Creative Technology” by fostering local innovation and creativity.