



**AFRICAN CENTER OF EXCELLENCE FOR DRUG RESEARCH, HERBAL  
MEDICINE DEVELOPMENT AND REGULATORY SCIENCE (ACEDHARS)  
UNIVERSITY OF LAGOS  
AKOKA-YABA, LAGOS, NIGERIA**

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**DLI 5.3 MODULE 2: DEVELOPMENT OF THE INSTITUTIONAL  
INNOVATION / ENTREPRENEURSHIP ECOSYSTEM**

**M 2.1., Development of an innovation and entrepreneurship curriculum for Center  
Student and Staff**

**TASKS:**

- i) Development of curriculum for a Short Course in conjunction with the University's Center for Entrepreneurship and Skill development in the Health thematic area
- ii) Run the Short course for Postgraduate students and faculty members of the Center within 1<sup>st</sup> semester, 2021/2022 session
- iii) Establish ACEDHARS's Innovation grant scheme.

The grants scheme is to provide support to several types of grants: (i) development of medicinal formulation into commercial product (ii) medicinal products in need of upgrading to global commercial standard (iii) medicinal product in need of market research and (iv) the development of communication strategies for attracting investors in take-up for commercialization of Center's medicinal products.

## **REPORT**

### **A. ENTREPRENEURSHIP WORKSHOP**

The 3-Day Entrepreneurship Workshop is a strategic capacity-building event co-developed by ACEDHARS and Entrepreneurship and Skills Development Centre (ESDC), University of Lagos, Nigeria. The three-day workshop held during the National Industrial Strike in Federal Universities in Nigeria. The venue was moved from the University of Lagos to Yaba College of Technology and the event held from 21<sup>st</sup> to 23<sup>rd</sup> June, 2022.

### ***Target Participants***

The target participants for the **3-Day Workshop** were members of ACEDHARS – officers, faculty, technologists and students. Call for enrollment was sent out on Center WhatsApp platform due to the industrial action going on in Nigerian Federal Universities at the time. Link to the enrolment form: [https://docs.google.com/forms/d/e/1FAIpQLSdlsk5g7JmP-ktlYvaF62s45sTaniZ4PsBnfTzNDO0UYmP7nQ/viewform?usp=pp\\_url](https://docs.google.com/forms/d/e/1FAIpQLSdlsk5g7JmP-ktlYvaF62s45sTaniZ4PsBnfTzNDO0UYmP7nQ/viewform?usp=pp_url) .

### ***Objectives of the 3-Day Workshop***

The overarching objective of the Workshop is:

- (i) Empower the members of ACEDHARS with entrepreneurship capabilities required to convert their respective research outputs into products with potent commercial values
- (ii) Expose the members of ACEDHARS to requisite entrepreneurship concepts needed to guide their sojourn along the entrepreneurial journey.
- (iii) Assist the members of ACEDHARS appreciate the commercial value, as well as the processes embedded in Design Thinking (DT) as a methodology for the development of novel products with potent commercial value.
- (iv) To expose the members of ACEDHARS with the knowledge of stakeholders' engagement and mapping, as well as each member can manage both internal and external stakeholders within their space for effective collaboration, innovation, and creativity-enriched product development.

### ***Expected Outcome of the 3-Day Workshop***

At the end of the 3-Day Workshop, the target participants are expected to:

- (i) Have acquired basic entrepreneurship capabilities required to convert their research outputs into products with potent commercial values.
- (ii) Have been exposed to requisite entrepreneurship concepts they need in order to be guided along their entrepreneurial journey.
- (iii) Have basic appreciation of the utility and processes embedded in the Design Thinking methodology
- (iv) Have basic understanding of stakeholders' engagement, mapping, and management for the purpose fostering effective collaborations, and implementing innovative and creativity-enriched product development.

## **1. Workshop's Modules**

The workshop is carefully designed with eight (8) modules as follows:

<b>Module</b>	<b>Title</b>
1.	Engaging with Stakeholders in Entrepreneurship Ecosystem I
2.	Understanding the Basics of Entrepreneurship & Innovation
3.	Engaging with Stakeholders in Entrepreneurship Ecosystem II
4.	Understanding the Basics of Design Thinking I
5.	Understanding the Basics of Design Thinking II
6.	Intellectual Property, Business Registration, and Product Commercialization
7.	Understanding the Basics of Financial Sustainability
8.	Pitching Competition

Each module is expected to be delivered over a duration of 120 minutes, inclusive of the questions and answer sessions.

### **Participants**

The workshop was attended by twenty faculty, two Account Officers, one technologists and three Masters students, all from the Center.

**Team Building activity:** Participants were divided into 5 teams and membership was random

- (i) Team Pleasure Park.
- (ii) Team Yankari Game Reserve
- (iii) Team National War Museum
- (iv) Team Obudu Cattle Ranch
- (v) Team Zuma Rock

### **Feedbacks from the Field Experience**

The field work was done in the campus of Yaba College of Technology, Lagos; a Sister institution whose venue was used for the workshop due to industrial action in University of Lagos that had led to closure its workshop venues. After developing their concept medical invention, the teams went out to the field to pitch their prototype idea to the society. The feedbacks were further used to improve the product

#### **Team Obudu Cattle Ranch**

*“... in terms of asking them questions, we need to come down to their levels for them to understand.... we need not to use the big terminologies so that we can get the best out of their response.”*

*“... they were also able to confirm the wicked problems that we’ve been able to identified with diabetes and hypertension...”*

*“... and importantly, we asked them what they think could benefit people suffering from diabetes and hypertension and they suggested how products that can help them to cope with life and manage the situation.”*

#### **Team Zuma Rock**

*“... the exercise helps us to encourage ourselves that we are on the right track...they gave us hope that neuro degenerative diseases are all over in our society and that many atimes, people don’t know that they are depressed.”*

*“... we asked them if you have herbal formulations that people can take to ameliorate or cure or manage depressed situation, they said yes in the affirmative.”*

#### **Team National War Museum**

*“ ... we asked if they were aware of any company that produced herbal tea for viral infection.... while majority said no, one acknowledged he knows one and that they teas goes for 100 GBP.”*

Overall, the participants acknowledged that the field experience was worth the time, the energy, and the exposure. The lessons from the interactions with the potential customers from the field was unquantified and the responses was reassuring that they were doing the right thing.

### **Test of Training Impact**

The various Teams were made to make a presentation of their enterprise ideas using the Business Model Canvas (BMC) which they have been previously trained. This was quite exciting and Team Zuma came first overall and was celebrated and given prizes by the Center Leader of ACEDHARS.

Certificates of participation was presented to all the participants.

The following documents are available via links

- (i) E-copy of Workshop Curriculum
- (ii) Attendance sheets:  
[https://drive.google.com/file/d/1bl7aMRUYN\\_y1swuE1R1CHAFma6izD\\_-e/view?usp=share\\_link](https://drive.google.com/file/d/1bl7aMRUYN_y1swuE1R1CHAFma6izD_-e/view?usp=share_link)
- (iii) Photographs:  
[https://drive.google.com/drive/folders/1ejynZFTjQq6hiWN\\_SzrLU7xhM2AwS4nU?usp=share\\_link](https://drive.google.com/drive/folders/1ejynZFTjQq6hiWN_SzrLU7xhM2AwS4nU?usp=share_link)

## **B. ENTREPRENEURSHIP GRANT AWARD**

During the course of the Entrepreneurship Workshop, the Center Leader announced the ‘Call for Proposal for Entrepreneurship Grant values at \$5000’ open to all participants at the workshop. Four proposals were received and after a series of reviews, resubmissions and re-evaluations by the ESDC Committee and the sum of \$5000 (equivalent in naira) was awarded to each of the team in December 2022, to develop their formulations into products within six months. The four awardees are:

1. **Proposed Formulation:** Antiseptic Herbal Mouthwash Solution from Selected Medicinal Plants.  
**Team Members:** Dr. I.C. Orabueze; Pharm. O. Oderinde Fausat; Dr. C. Azubuike; Mr. A. Usman
2. **Proposed Formulation:** Herbal Sun-Screen for Healthy Skin  
**Team:** Dr. Abimbola Sowemimo; Dr. M.O. Ilomuanya; Dr. Uloma Ukoma-Ubani
3. **Proposed Formulation:** Antidepressant Herbal Tea  
**Team:** Dr. M.N. Igwo-Ezikpe; Dr. N.O.A Imaga; Dr. I Ishola; Prof. O.A.T Ebuechi; Pharm. V. Chukwuka; Mr. A.E. Adesiyun; Mrs. I. Asoro
4. **Proposed Formulation:** Kolaviron: Kola Seed Formulation for Prevention of Hypertension

**Team:** F.J., Olatoye; A.J. Akindele; C. Azubike