

## Entrepreneurship Education in Public Universities in Ekiti State, Nigeria

Aina M. Adebayo\*

*Department of Vocational and Technical Education, Faculty of Education, Ekiti State University, Ado Ekiti, Nigeria*

**Corresponding author:** Aina M. Adebayo, E-mail: ainaadebayo2013@gmail.com

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### ABSTRACT

The inclusion of entrepreneurship education to university curriculum is to make the content more functional. However, it seems that entrepreneurship education has not been achieving its objectives in Nigeria. The main purpose of this study was to compare entrepreneurship education in two public universities in Ekiti State. The survey research design was adopted. The sample of the study consisted of 101 lecturers/trade experts from these universities. Two questionnaires were used to collect data. The instruments were validated by two lecturers from Ekiti State University (EKSU) and the Federal University, Oye Ekiti (FUOYE). The reliability test yielded a coefficient of 0.73. The findings showed that lecture method was mostly used in the two institutions, among others. Based on the findings of this study, it was recommended that adequate instructional materials should be provided. Also, the use of field trip is recommended to enable the students to receive first-hand information about these entrepreneurship trades from the appropriate companies/sites/industries, among others.

**Key words:** Appraisal, Entrepreneurship, Entrepreneurship Education, Public Universities

### INTRODUCTION

The economies of most developing nations such as Nigeria and Gambia are moving towards a direction where only individuals with self-sustaining and saleable skills can really survive. This is evident by the rate at which unemployment among Nigerian graduates are increasing yearly. Thus, National Universities Commission (NUC) (2011) reported that the Federal Government directed that entrepreneurship studies should be introduced into the curriculum of university education in Nigeria. The philosophy of entrepreneurship education is to produce graduates with some value addition over and above their field of study for the purpose of self-reliance. In line with this policy thrust, NUC was directed to design the curricula and course specifications for entrepreneurship education for the undergraduate programmes regardless of their disciplines.

European Commission (2008) defined entrepreneurship as an individual's ability to turn ideas to actions and includes creativity, innovation and risk taking as well as the ability to plan and manage projects in order to achieve objectives. Ekpenyong (2010) states the objectives of entrepreneurship include establishment of entrepreneurship mindset; production of responsible and enterprising individuals who will become entrepreneurs, and/or entrepreneurial thinkers who could contribute to the economic development and poverty alleviation in Nigeria; recognition of opportunities; and generation of ideas and compilation of resources to pursue opportunities while recognizing the risks. Similarly,

Nwangwu (2007) defined entrepreneurship as a process of bringing together the factors of production, which include land, labour and capital so as to produce a product or service for public consumption. Entrepreneurship education therefore can be defined as that type of education which deals with the inculcation into the students, the ability to study one's environment and make use of available opportunities into some economic gains. Also, Afolabi, Yusuf, Ogunjobi and Idowu (2014) affirm that entrepreneurship education is a process that equips individuals with entrepreneurial skills, knowledge and right attitude to work and sharpen their talents, natural endowments and competencies so as to make them self-reliant, self-employed and employers of labour.

Generally, the goal of entrepreneurship education is to reduce unemployment among graduates through acquisition of appropriate skills that will enable students to embark on economic venture on their own after graduation. NUC (2011) identified the broad objectives of entrepreneurship education to include:

- To redirect education/training for relevance and quality by developing in the undergraduate/graduate an entrepreneurial mindset (spirit) and equipping him with the skills necessary to start and run a business successfully; and
- To introduce students to the key requirements for starting an enterprise.

Since the introduction of entrepreneurship education in higher institutions commenced across the nation, a survey of

some universities' handbooks on entrepreneurship education programme reveal that there are differences in the course contents being taught in these institutions. Each university seems to develop its programme based on how it conceptualizes it.

In view of the fact that knowledge acquisition is partly dependent on the pedagogy of the teacher or lecturer, it is therefore important to identify appropriate methods of entrepreneurship education. Ajayi (2004) lists some of the teaching methods that include lecture, demonstration, group discussion, and field trip, among others. A study conducted by Onagite and Aina (2017) revealed that teaching methods used in entrepreneurship were basically theoretical which needs to be improved with practical knowledge and skills for students' preparation for future career in the world of work. Also, the findings of Co and Mitchell (2006) showed that entrepreneurship education focuses on traditional classroom delivery such as lectures. An observation of the present methods used in entrepreneurship education in these institutions seems to reveal that project method, lecture method, demonstration and question and answer method, assignment, and discussion are mostly used. Most of these methods are teacher-centered, which did not allow the students to actively participate in the learning process. This seems to account for the failure of entrepreneurship education to yield desired results. Byun, Sung, Park and Choi (2018) noted that entrepreneurship graduate schools should provide methods and contents to discover opportunities and challenge risks in an uncertain environment. They observed that it is desirable to invite qualified entrepreneurs and lecturers to improve the content and quality of entrepreneurial subjects with high importance. Thus, there is need for an activity-based method which is student-centered such as experiential teaching method.

Experiential learning is the process of learning through experience. It is more specifically defined as learning through reflection on doing. Experiential learning is concerned with more concrete issues related to the learner and the learning context, (Kolb, Robin and McIntyre, 1974). Experiential learning method would be a better approach to entrepreneurship education. In support of this, Ajayi and Ayodele (2002) reported that recipients of indigenous education were exposed to a wide range of vocations and occupations which include farming, fishing, boat-making, mat-making, pottery-making, soap-making, animal-husbandry, weaving, hair plaiting, bead working, carpentry and dressmaking. Thus, there was no room for unemployment in the African traditional setting as traditional education emphasised self-employment.

In contemporary era, experiential learning has been formalized by Kurt Lewin and the T-Group Movement in the 1940s and other great thinkers in the field of philosophy and educational psychology like Paulo Freire, John Dewey, Jerome Bruner, Kurt Hahn, and Carl Rogers, among others.

Entrepreneurship has been identified as a remedy against unemployment and stagnant economic growth, hence, the need to ascertain the availability of resources needed for effective and practical-oriented entrepreneurship education is germane. Egbe in Ikegwuani (2015) stated that the rates of learning through five senses give an immediate picture of the vital role of audio visual materials in teaching/learning

process. It is therefore practically impossible for a learner to be successful in any skill acquisition programme that does not involve the effective use and manipulation of learning materials. This view is in consonance with Umar (20xx) in Harnau (2014) when he pointed out that capacity building aimed at developing the human resources being a key element in quality and quantity in manpower development for specific tasks. In view of this, it is expected that the required instructional resources, as listed in the 2011 NUC benchmark will be provided.

Thus, Afolabi et al. (2014) and Ikegwuani (2015) reported that provision of modern working tools, maintenance of aesthetically pleasing working environment, modern audio-visual materials, equipment, relia, laboratory, power supply and gadgets must be adequately provided at the Centre for Entrepreneurship Education (CEE) to enable the teacher and learners add more knowledge and compare ideas. Thus, NUC (2011) benchmark for minimum standards in entrepreneurship provided a list of 34 trades/skills and instructional resources needed for effective teaching of these trades. This is to enable the institutions to produce more enterprising, qualified and skill-oriented graduates who would be able to contribute significantly to the growth of the nation's economy by increasing self employment. Based on the high premium placed on the use of instructional resources in entrepreneurship education, it is therefore important to identify the available instructional resources at Centre for Entrepreneurship Education (CEE) that will guarantee effective teaching in these institutions. In his contribution, Nwokike (2015) observed that government needs to provide money for funding the universities by providing facilities for teaching the students This will enable Nigeria university graduates possess employable skills through involvement in relevant practical activities in entrepreneurship education. However, Ayodele (2008) listed some of the obstacles/challenges to effective entrepreneurship development in Nigeria to include: Inadequate capital, irrelevant education, low level of infrastructural development, overt problems of procuring materials, among others.

The rate at which unemployment is increasing on yearly basis is becoming a source of concern to parents, governments and lecturers in spite of the introduction of entrepreneurship education in the nation's tertiary institutions. There seems to be hindrances against effective entrepreneurship education which has not allowed the course to achieve its set objectives. These include unconducive learning environment, method of teaching, inadequate instructional materials, among others (Ekpenyong, 2010). It is against this background that this study appraised entrepreneurship education in Ekiti State University, Ado-Ekiti (EKSU) and the Federal University, Oye-Ekiti (FUOYE).

### **Purpose of the Study**

The main purpose of this study was to compare the entrepreneurship education in public universities in Ekiti State. Specifically, the study determined:

1. pedagogical approaches used for entrepreneurship education;

2. the extent of availability of instructional resources/facilities for entrepreneurship education; and
3. challenges of entrepreneurship education in public universities in Ekiti State.

### Research Questions

The following research questions were raised and answered to guide the study:

1. What are the pedagogical approaches used in entrepreneurship education in public universities in Ekiti State?
2. What are the instructional resources available for entrepreneurship education in public universities in Ekiti State?
3. What are the challenges of entrepreneurship education in these universities?

### METHODS

The descriptive research design of the survey type was used for this study. This design sought to collect data on the opinions of the respondents with a view to comparing the teaching methods used in two public universities in Ekiti State.

### Sample

The population of the study was made up of 121 entrepreneurship education lecturers and adjunct trade experts in the two institutions, consisted of 86 and 35 from EKSU and FUYOE respectively. Entrepreneurship education lecturers and trade experts (n = 101) were randomly selected as the sample for this study. From EKSU and FUYOE respectively 76 and 25 respondents were randomly selected. The remaining 20 members (that is, 10 from each of the institutions) were used to carry out the reliability test.

### Instrument

To test the reliability of 'Entrepreneurship Education in Public Universities' (EEMU) questionnaire, split half method was used. The scores collected were subjected to Pearson Product Moment Correlation formula which yielded a coefficient of 0.73.

Table 1 indicates the level of availability of the teaching resources in these institutions since the required numbers were not expressly stated in the NUC (2011) Benchmark.

In arriving at the decision in Table 1, the researcher considered the quantity available vis-à-vis the population of students in groups. To ascertain the validity of the instrument, the drafts were submitted to two lecturers, one from each of the entrepreneurship centres of the two institutions. Their comments and corrections made by these experts were incorporated into the final copy of the instruments.

### Data Analysis

Data were analysed using descriptive statistics, and more specifically, mean values. Items with means of 2.50 or above were regarded as 'Agree' while items with values below 2.50 were considered 'Disagree'.

## RESULTS

### Pedagogical Approaches Used in Entrepreneurship Education

Research Question 1: What are the pedagogical approaches used in entrepreneurship education in public universities in Ekiti State?

The analysis of result in Table 2 reveals that out of the twelve (12) pedagogical approaches listed respondents from EKSU agreed on adequate use of teaching methods on items 1, 4, 6, 7, 8, and 11 while respondents from FUYOE are of the opinion that methods on items 1, 3, 4, 5, 7, 10, and 11 are mostly used in tertiary entrepreneurship education.

The analysis revealed that the two institutions are commonly using lecture, demonstration and assignment methods (i.e., items 1, 4 and 7) as the mean scores of the items are above 2.50 cut off point in the two institutions. Other teaching methods listed in items 2, 9 and 12 are the least used methods with cut off point of less than 2.50.

### Instructional Resources Available for Teaching Entrepreneurship

Research Question 2: What are the instructional resources available for teaching entrepreneurship in public universities in Ekiti State?

In order to answer the research question, the NUC Benchmark for minimum academic standards for undergraduate programmes in Nigerian universities was used to ascertain the required instructional resources in each of the trades

**Table 1.** Self-developed rating scale on measure of availability of instructional resources needed for entrepreneurship education

	Quantity	Quantity available	Points	Decision
i.	Litres of liquid or units of tools:			
	* Absent	0	1	Not available
	* Sparsely available	1-10	2	Inadequate
	* Adequately available	11-20	3	Adequate
	* Highly available	21+	4	Very adequate
ii.	Land/Laboratories:			
	Equipment/Laboratory	1	3	Adequate
	Equipment/Laboratory	2+	4	Very adequate

**Table 2.** Mean scores of pedagogical approaches used in entrepreneurship education in the public universities in Ekiti state

S/N	Teaching Methods	EKSU		FUOYE	
		Mean	Decision	Mean	Decision
1.	Lecture method is used to teach the principles in entrepreneurship education.	3.11	Agree	3.13	Agree
2.	Question and answer method of teaching entrepreneurship is also used.	1.76	Disagree	1.92	Disagree
3.	Use of field trip/excursion is being used to teach entrepreneurship education.	1.69	Disagree	2.61	Agree
4.	Demonstration method was used to teach students.	2.63	Agree	2.88	Agree
5.	Individual and group project method is used for teaching entrepreneurship.	1.70	Disagree	2.79	Agree
6.	Textbook method is used for entrepreneurship education.	3.01	Agree	1.85	Disagree
7.	Assignment method is used to teach my students in entrepreneurship education.	2.57	Agree	2.73	Agree
8.	Debate is used as a method for teaching entrepreneurship.	2.85	Agree	1.53	Disagree
9.	Use of problem solving method in entrepreneurship education is more relevant.	1.68	Disagree	2.08	Disagree
10.	Brainstorming enhances students' skill acquisition in entrepreneurship education.	2.04	Disagree	2.86	Agree
11.	Dramatization is used to teach entrepreneurship.	3.09	Agree	2.58	Agree
12.	Recitation method can be effectively used to teach entrepreneurship education.	1.01	Disagree	1.92	Disagree

specified. Also, the self-developed rating scale on availability in Table 1 was used as a guide to measure level of availability.

A careful study of the available entrepreneurship trades in the two universities revealed that out of the 34 trades in the NUC Benchmark, only thirteen (13) trades are being taught in the two institutions. In view of the foregoing, the table below presents the analysis of the data collected on the available instructional resources in the trades:

Table 3 reveals that the instructional resources in items 13 and 14 are completely and adequately available in the two institutions as each of them had 3 points and above. This means that all the required items/materials for effective teaching and learning of soap/detergent/toothpaste (item 13) and cloth/textile (item 14) are adequately provided. Also, food processing (items 15) and building drawing (item 22) revealed that only Ekiti State University, Ado-Ekiti have instructional resources in food processing and building drawing while the two trades are not available at FUOYE. The data collected on items 16, 17, 18, 19, 20, 21, 23, 24 and 25 revealed that some instructional resources needed for these trades are very adequately available, some are adequately available while few are not adequately available in the two institutions.

### Challenges of Teaching Entrepreneurship

Research Question 3: What are the problems/challenges of teaching entrepreneurship in your university?

Table 4 revealed that out of the ten (10) identified challenges, respondents from EKSU agreed that only items 31 and 33 are not challenges to effective entrepreneurship education while respondents from FUOYE agreed that items 27, 29, 33, 34, and 35 are not challenges to effective entrepreneurship education. The analysis revealed that the two institutions agreed that items 33 (lecturers' attitude to students) is not a challenge to effective entrepreneurship education.

### DISCUSSION

The finding of the study revealed that most of the methods used to teach entrepreneurship education in EKSU are teacher-centred, while the finding from FUOYE revealed that field trip/excursion is used to teach their students, which is one of the viable student-centred teaching methods. This may enable FUOYE students to be well-equipped in entrepreneurship skill acquisition. The finding suggests that there was a preference for academic implication at EKSU and practical implication at FUOYE. This is in support of the findings of Mwatsika and Sakhulani (2016) that entrepreneurship education affects students' knowledge (academic implication), perception of having adequate skills and competencies (practical implication) to engage with entrepreneurship practical successfully. The finding is in contrary to the recommendation of NUC (2011) that methods of delivery should be mentoring and practical in business incubator/existing business. This can only be found in pedagogical approaches like field trip/excursion and demonstration.

Also, the study revealed that in Ekiti State University, Ado Ekiti, out of the 13 available trades only 3 trades, (soap/detergent/toothpaste making, food processing and tailoring) adequately have all the needed materials for effective teaching and learning, while the remaining 10 trades are not adequately equipped in one or two of the instructional resources needed to learn the trades effectively. The findings on available resources in Federal University, Oye Ekiti revealed that soap/detergent/toothpaste and cloth dyeing are adequately equipped at FUOYE. Generally, it was also found out that there are no enough instructional resources to teach the available entrepreneurial trades in these universities. The finding is in support of Nwokike (2015) when she noted that facilities for teaching and learning are lacking in most universities in Nigeria. Also, in their own contribution,

**Table 3.** Analysis of availability of instructional resources for entrepreneurship education in EKSU and FUOYE

S/N	Trades/instructional resources	Qty available	EKSU		Qty Available	FUOYE	
			Points	decision		Points	Decision
13.	Soap/detergent/toothpaste making:						
	i. Laboratory	1	3	Adequate	1	3	Adequate
	ii. Chemicals	15	3	Adequate	12	3	Adequate
	iii. Caustic soda	15	3	Adequate	12	3	Adequate
	iv. PKO	15	3	Adequate	12	3	Adequate
14.	Cloth Dyeing/Textile:						
	i. Buckets	17	3	Adequate	20	3	Adequate
	ii. Dye of different colours	15	3	Adequate	12	3	Adequate
	iii. Chemicals	15	3	Adequate	20	3	Adequate
	iv. Water	25	4	Very Adequate	20	4	Very Adequate
15	Food Processing:						
	i. Preservatives	20	3	Adequate	0	1	Not Available
	ii. Processing equipment (Palm oil & garri)	2	4	Very Adequate	0	1	Not Available
16	Photography:						
	i. Dark room (lab)	1	3	Adequate	1	3	Adequate
	ii. Cameras	7	2	Inadequate	5	2	Inadequate
	iii. Films	7	2	Inadequate	5	2	Inadequate
	iv. Chemicals	5	2	Inadequate	5	2	Inadequate
17.	Poultry:						
	i. Site (Land)	2	4	Very Adequate	2	4	Very Adequate
	ii. Incubator	2	4	Very Adequate	1	3	Adequate
	iii. Water Supply	25	4	Very Adequate	25	4	Very Adequate
	iv. Cages	12	3	Adequate	8	2	Inadequate
	v. Egg Trays	12	3	Adequate	8	2	Inadequate
	vi. Drinking trough	6	2	Inadequate	4	2	Inadequate
	vii. Vaccines	20	4	Very Adequate	20	4	Very Adequate
18.	Domestic electrical Installation						
	i. Electrical workshop	3	4	Very Adequate	3	3	Adequate
	ii. Soldering Iron	8	2	Inadequate	7	2	Inadequate
	iii. Screw Drivers/Pliers	8	2	Inadequate	8	2	Inadequate
	iv. Electrical toolbox	2	2	Inadequate	2	2	Inadequate
	v. Alternative Power Supply	1	2	Inadequate	1	2	Inadequate
19.	Welding, metal work and Fabrication:						
	i. Workshop	1	3	Adequate	1	3	Adequate
	ii. Tool kits	2	2	Inadequate	1	2	Inadequate
	iii. Safety wear	20	3	Adequate	12	3	Adequate
	iv. Welding machine	1	2	Inadequate	1	2	Inadequate
	v. Soldering machine	8	2	Inadequate	6	2	Inadequate
20.	Wood work and carpentry						
	i. Workshop	2	4	Very Adequate	1	3	Adequate
	ii. Safety wear	18	3	Adequate	12	3	Adequate
	iii. Planks	30	4	Very Adequate	21	4	Very Adequate
	iv. Chisels	10	2	Inadequate	7	2	Inadequate
	v. Saw	10	2	Inadequate	7	2	Inadequate
	vi. Hammer	10	2	Inadequate	7	2	Inadequate
	vii. Energy Source (Generator)	1	3	Adequate	1	3	Adequate
21.	Radio and Television Repairs						
	i. Workshop	3	4	Very Adequate	1	3	Adequate
	ii. T.V for practicals	8	2	Inadequate	7	2	Inadequate
	iii. Robber gloves	20	3	Adequate	18	3	Adequate
	iv. Technologists	1	2	Inadequate	1	2	Inadequate
	v. Overall	13	3	Adequate	8	2	Inadequate

(Contd...)

**Table 3.** (Continued)

S/N	Trades/instructional resources	Qty available	EKSU		Qty Available	FUOYE	
			Points	decision		Points	Decision
22.	Building Drawing:						
	i. Computer software	4	2	Inadequate	0	1	Not Available
	ii. Drawing set	12	3	Adequate	0	1	Not Available
	iii. Drawing board	12	3	Adequate	0	1	Not Available
	iv. Drawing laboratory	1	3	Adequate	0	1	Not Available
23.	Farming (Crop)						
	i. Land	1	3	Adequate	1	3	Adequate
	ii. Tractors	1	3	Adequate	1	3	Adequate
	iii. Seedling	12	3	Adequate	13	3	Adequate
	iv. Labour (unskilled)	10	2	Inadequate	8	2	Not Adequate
24.	Tailoring:						
	i. Workshop	1	3	Adequate	1	3	Adequate
	ii. Sewing machines	25	4	Very Adequate	20	3	Adequate
	iii. Weaving machines	12	3	Adequate	8	2	Inadequate
	iv. Threads (per roll)	30	4	Very Adequate	22	4	Very Adequate
	v. Needles (packs)	14	3	Adequate	11	3	Adequate
25.	Interior Decoration:						
	i. Cloths (yards)	35	4	Very Adequate	25	4	Very Adequate
	ii. Iron rods (per length)	18	3	Adequate	14	3	Adequate
	iii. Fittings	10	2	Inadequate	10	2	Inadequate
	iv. Curtains (yards)	30	4	Very Adequate	20	3	Adequate

Source: Field work, 2017

**Table 4.** Mean scores of challenges of entrepreneurship education in public universities in Ekiti state

S/N	Teaching methods	EKSU		FUOYE	
		Mean	Decision	Mean	Decision
26.	Inadequate number of hours for practical work	2.63	Agree	2.74	Agree
27.	Number of lecture hours per week are not enough	2.90	Agree	1.82	Disagree
28.	Insufficient power supply to operate some equipments	3.02	Agree	2.59	Agree
29.	Overcrowded lecture rooms	2.95	Agree	1.73	Disagree
30.	General shortage of teaching materials/equipment	2.54	Agree	2.62	Agree
31.	Students' poor attitude towards learning a vocation	1.95	Disagree	2.82	Agree
32.	Poor funding for the purchase of needed instructional resources	3.25	Agree	2.75	Agree
33.	Lecturers' attitude to students in entrepreneurship education lecture periods	1.65	Disagree	1.52	Disagree
34.	Inadequate motivation/incentives for course lecturers/trade experts	2.86	Agree	1.93	Disagree
35.	Inadequate qualified trade experts to teach practical entrepreneurship	2.78	Agree	1.85	Disagree

Source: Field work, 2017

Nnaji and Bagudu in Ikegwuani (2015) stated that most of the facilities required for training are lacking and sometimes inadequate in most of the institutions in Nigeria. These are in agreement with the findings of this study. In line with these findings, Harbau (2014) in a study conducted in Zaria concluded that there were needs for training and preparing teachers in entrepreneurship in order to enable them education the young generation.

In addition, the findings on the challenges of entrepreneurship education as considered by the researcher from existing literature revealed that all the respondents in the two institutions were unanimous in their opinion with all the items listed except item 22 which was to find out whether lecturers' attitude could be a problem in effective teaching and learning of entrepreneurship in their institutions. This implies that the respondents acknowledged that

the nine items are problems/challenges of entrepreneurship education. This finding is in support of Okorie (2013), when he asserted that government under-funding affects the facilities to be provided for effective teaching, learning and research activities and type of teaching staff that can be engaged. Also, in agreement with this finding, Aina and Nwachuckwu in Ikegwuani (2015) stated that the trade subjects require laboratories and workshops where teaching and learning can take place and more classrooms/laboratories still need to be built so as to reduce overcrowding and shortage of facilities.

## CONCLUSION

Based on the findings, it could be concluded that the 34 entrepreneurship trades recommended for teaching by the National Universities Commission are not fully implemented in these institutions. Also, the instructional resources needed for the practical demonstration in the available entrepreneurship trades are not totally available in most of the trades taught to enhance effective skill acquisition.

The following recommendations are made, according to the results of the current study.

1. Pedagogical approaches used for entrepreneurship education in these institutions should be extended to include field trip and demonstration method.
2. The management of the two institutions should endeavour to make adequate provision for the instructional resources needed for effective teaching and learning of entrepreneurship trades as stated in NUC Benchmark Minimum Academic Standards for the programme.
3. The management of these institutions should allocate more hours to practicals, reduce overcrowded lecture rooms by grouping the students, provide alternative power supply and employ more qualified trade experts to teach the practical aspect to ensure acquisition of entrepreneurial saleable skills.

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