## Curriculum for Self-Reliance Taris, A. M., Uman A., 'Hassan A. M. (ALE), FUE Minna October 2014. Thrix A. M., Uman A., Hassan, A. M. & Gimba, R.W.

Peper interne of Industrial & Technology Education The sment of Arience Education, Federal University of Technology, Minna When of Strency Education, EC.E (D) Potiskun Yobe State. Email idrismohammed@futminna.edu.ng

AMPRIVAT A skills acquisition for self-employment and systematics by parameter and skills acquisition for self-employment and sustainability. It focused on The CANCERS OF entrepreneurship education and skills acquisition as the solution to unemployment problem in The crucegy of entrepreneurship education and skills acquisition and its roles in making This paper also examined the senior secondary school recessary for self-This paper also examined the senior secondaryschool curriculum, benefits of A strategies for promotingentrepreneurship education and skills acquisition A New Assistance and conclusion were made

Introduction.

partition and knowledge is power house of economic growth and social development. By investing A human resources enterprises, individual are able to sustain themselves, improve productivity Appende more successfully in increasing integrated world economics leading to better standard Science as a vast intellectual adventure which engages the world's most creative minds was introduced into Nigeria as part of the missionary educational package. Dienye and Chamania (2000) called this type of science introduced in Nigeria primary schools by Missionaries Nature Study and Hygiene. Later this nature study curriculum was changed. According to Abi (2011) rural science syllabus was formulated for the primary schools while hology related subjects like botany, physiology and agriculture were introduced into the secondary school curriculum. Dienye and Gbamaja (1990), Abi (2011) and Omiko (2011) observed that several world events related to science and technology has affected the teaching and learning of science not just in Nigeria or Africa as a whole but throughout the world. Such world events include:

The lesson of the Second World War; (3)

Gaining of independence by many countries of the world. (6)

Abolition of slave trade. (0)

Space travel and movement to the moon and

The introduction of computer and information communication technology (ICT). (0)

The recent global economic meltdown

In Nigeria, Science Education Curriculum has undergone several changes; this is done with the aim of meeting the industrial, scientific and technological needs of the country. Omiko (2011) observed that there is a consensus among science educators that secondary school science education curriculum lacks a sense of direction as well as a theory and philosophy which would provide guidance for entrepreneurship and skills acquisition at the secondary school level. Ibe and Igwe (2010) opined that any nation whose citizens are knowledgeable and skilled enough to influence positively the industrial, educational, agricultural and all the important sectors of the economy is to be classified as a developed nation. Our country Nigeria has undergone several economic adjustment programs. We need people who can be self-employed and who can reduce the unemployment rate. Global economic meltdown, its resultant effect on our economy and various measures taken by governments (states and federal) had resulted into many economic predicaments, such as unemployment, low enrolment in schools, high inflation, debtInitiden and a failing standard conference of Nethons of the problem of unemployment resulting from the problem and restructuring of the science and technoling standard of living The problem that would enable the thought and a failing standard of living the problem and restructuring of the science and technoling the technology and a failing standard of living the problem of unemployment resulting from the pro The problem of unemployment resulting of the science of living and restructuring of the science. burden and a failing standard of living The problem of unemproyment resulting from the problem of the science and technology and a failing standard of living and restructuring of the science and technology and a failing standard of living and restructuring of the science and technology the recipient of their training. 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Concept of Entrepreneurship

Concept of Entrepreneurship

Entrepreneurship as a concept is as old as man but began to gain national and international Entrepreneurship as a concept is as one of the most potent economic forces the world has ever interest over the past decades as one of the most potent that the growing importance of experienced. Obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance of experienced obierika and Nwachokor (2011), opined that the growing importance object of experienced object objec

- To a psychologist, an entrepreneur is a positive for perhaps escape the authority of or attain something through experiment, accomplish or perhaps escape the authority of others (Ibe and Igwe, 2010).

  To an economist, entrepreneur is one who brings resources of labour, materials and other than before and also into the properties of th
- To an economist, entrepreneur is one who of the and other assets into combinations that make their value greater than before and also introduces changes, innovations and a new order.
- changes, innovations.

  To businessman, an entrepreneur appears as a threat, an aggressive competitor. Obi

  (2009) sees an entrepreneur as a person who brings about a change and possesses
  (2009) sees an entrepreneur as a person who be seed to be entrepreneur as a person who characteristics to implement ideas to benefit the society as a whole. It is the person who
  wants to be self-employed. It is a process of creating and running one's own
  business. Obierika and Nwanchokor (2011) defined entrepreneurship as creating and
  building something of value from practically nothing, creationand distribution of
  something of value and of benefits to individuals, groups, organizations and society.
- To educationists, entrepreneurship is an ability of an individual to acquire skills that enable him/her to be self-reliant, Osuala (2004), sees entrepreneurship education as specialized training given to students to acquire skills, ideas and management abilities necessary for self-reliance. He outlined the major objectives of entrepreneurship education to include:
- To provide meaningful education for the youths, which could make them self-reliant and subsequently encourage them to derive profit and self-independence?
- To provide small and medium sized companies with the opportunity to recruit qualified graduates 'who will receive training and tutoring in the skills relevant to the management of the small business Centre.

- 2" International John Street of Technology Education (STE), FUT, Minna October, 2014.
- To provide graduates with the training and support necessary to help them establish a
- To provide graduates with training in skills that will make them meet the manpower
- To provide graduates with enough training in risk management to make uncertainty
- To provide graduates with enough training that will make them, creative and innovative
- To stimulate industrial and economic growth of rural and less developed areas. The integration of entrepreneurship education in the science and technology education curriculum of the secondary schools and tertiary institutions with relevant skills acute business knowledge, self-confidence and national development is necessary.

The Senior Secondary School Curriculum and Entrepreneurship Skills Acquisition According to the National Policy on Education (FRN, 2004), Science Education shall emphases the teaching and learning of science process and principles. This will lead to fundamental and applied research in the sciences at all levels of education. The broad aim of

- Cultivate inquiring, knowing and rational mind for the conduct of a good life and
- Produce scientists for national development;
- Service studies in technology and the cause of technological development, and
- Provide knowledge and understanding of the complexity of the physical world, the forms and the conduct of life.

The National Policy on Education (FRN, 2004) stated that the senior secondary school shall be comprehensive with a core-curriculum designed to broaden pupils' knowledge and outlook

## The Structure of the New Core-Curriculum for the 3-Year Senior Secondary Education

Group A: Core Subjects: Compulsory, cross cutting core subjects:

- English language
- Mathematics
- Amajor Nigerian language
- One of Biology, Chemistry, Physics or Health Science
- One of Literature-in-English, History, Geography or Religious studies

## Avocational subject

This implies that all the students, irrespective of their field of study are to take the listed compulsory cross cutting core-subjects. These subjects are always classified as:

- i. English language
- ii. General mathematics
- iii. One trade enterpreneurship
- IV. Computer studies/ICT
- Civic education

fStudy in the Senior Secondary School Curriculum

Table 1 siglized!	Field of Study III the samples	Technology	Business
Humanities Nigerian Language Literature -in-English Geography Government CRS Islamic Studies Visual Arts Music Arabic studies	Science and Mathematics  Biology Chemistry Physics Further Mathematics Agricultural Science Physical Education Health Education General Mathematics	Technical Drawing General Metal Work Basic electricity Electronics Auto-Mechanics Building Construction Wood -Work Home -Management Food and Nutrition Dashing Textiles	Accounting Store Management Office Practice Insurance Commerce

Sources: Lukman and O

The Senior Secondary School Curriculum and Entrepreneurship Skills Acquisition/Trade

Subjects
According to the national policy on education (FRN, 2004) the following constituent the

entrepreneurship/trade subjects:

1. Auto body repair and spraying painting

- 2. Auto electrical work
- 3. Salesmanship
- 4. Marketing
- 5. Fisheries
- 6. Animal husbandry
- 7. Mining
- 8. Tourism
- 9. Photograph
- 10. GSMmaintenance
- 11. Book keeping
- · 12. Data processing
  - 13. Short-hand
  - 14. Key boarding
  - 15. Leather goods manufacturing and repairs.
  - 16. Cosmetology
  - 17. Printing craft practice
  - 18. Dyeing and bleaching
  - 19. Textile trade
- 20. Garment making
- 21. Catering practice
- 22. Upholstery
- 23. Furniture making
- 24. Carpentry and joinery
- 25. Machine wood working
- 26. Plumbing and pipe fitting
- 27. Painting and decorating
- 28. Auto mechanical work
- 29. Auto part merchandising 30. Air conditioning/refrigerator
- 31. Welding and fabrication engineering craft practice
- 32. electrical installation and maintenance work

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Block laying, brick laying and concrete work 33. Radio, TV, and electrical work.

34. Radio, above curriculum for entrepreneurship and skills acquisition is well articulated its The above cultithe above shall help to produce graduates, youths or people that can make use of their brain and skills acquisition is well articulated its realization shall help to produce graduates, youths or people that can make use of their brain and the same of the sa realization shall be required creative knowledge and self-employment skills. According to hands as a result of their brain and hands as and oviawe (2010), such productive individuals are equipped with necessary Lukman and competence, entrepreneurial abilities and rendering of service to ensure human professional economic prosperity.

Benefits of Entrepreneurship Education and Skills Acquisition in Nigeria

Benefits of Nwanchokor (2011) observed that the economic success of nation worldwide is Objective and the economic success of nation worldwide is the result of encouraging and rewarding the entrepreneurial instinct. It is the entrepreneur who the result of the spark plug in the economy's engine, activating and stimulating all economic serves. This shows that entrepreneurship education serves as the shows that entrepreneurship education is important factor in the economic activities. This shows that entrepreneurship education is important factor in the economic activities. The following are some of the benefits derived from developmentship education. They are:

It gives an opportunity to utilize one's potentials.

It gives the entrepreneur an opportunity to serve one's community and impact on their lives positively.

It provides economic power for both the entrepreneur and the community.

It gives the entrepreneur a lot of independence since he is his own boss.

It provides a training ground for indigenous semi-skilled workers and managers.

It reduces rural to urban migration by engaging a large fraction of the population in gainful employment.

It helps to develop indigenous technology and raises the living standard of the people wheresuch entrepreneurial organization is located.

It boosts foreign exchange earnings for the country as indigenous products are

It eradicates poverty, and reduces the sufferings of the people by providing them with

daily paidjob

A society that has most of its populace gainfully employed, societal ills and vices be reduced to its barest minimum.

Problems of Entrepreneurship and Acquisition in Nigeria

The following are some of the problems facing entrepreneurship education and skills acquisition in Nigeria:

Poor Funding of Education in Nigeria

Poor funding of education in Nigeria has been one of the biggest problems facing the functionality of entrepreneurship education and skills acquisition. In the science, technology, home-economics and vocational education courses or subjects, money is needed to buy and install equipment. Where there is no money to provide the equipment, the education of the children towards entrepreneurial skills acquisition will be affected.

Lack of Equipment and Instructional Materials

As a result of inadequate funding of education, there is acute shortage of infrastructural facilities and equipment such as lecture rooms, machines, instructional materials because huge amount of money are needed to procure them. Obierika and Nwanchokor (2011) observed that facilities in entrepreneurship education are initial for two major reasons for effective instruction and for actual occupations or jobs for self-reliance. Inadequate equipment and instructional materials cannot favour entrepreneurship education. Students who receive such education cannot acquire the necessary skills that would make them confident and self-reliant.

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Lack of School Seminars Workshops Lack of School Seminars Workshops on entrepreneurship skills and attributes which are need Seminars and workshops on business should be organized for students. In organizing by seminars and succeed in business and experts in trade areas should be in the students of the succeed in the succee Lack of School Seminars on entrepreneurs in business should be organized for students. In organizing by entrepreneur to succeed in business should be entrepreneurs and experts in trade areas should be invited entrepreneur to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs and experts in trade areas should be invited to successful entrepreneurs. Seminars and workshops in business should be discovered by the seminars/workshops, successful entrepreneurs and experts in trade areas should be invited to entrepreneur to successful entrepreneurs and experts in trade areas should be invited by the seminars/workshops, successful entrepreneurs and experts in trade areas should be invited by the seminars/workshops, successful entrepreneurs and experts in trade areas should be invited by the seminars/workshops, successful entrepreneurs and experts in trade areas should be invited by the seminars/workshops, successful entrepreneurs and experts in trade areas should be invited by the seminars/workshops, successful entrepreneurs and experts in trade areas should be invited by the seminars/workshops, successful entrepreneurs and experts in trade areas should be invited by the seminars/workshops, successful entrepreneurs and experts in trade areas should be invited by the seminars/workshops, successful entrepreneurs and experts in trade areas should be invited by the seminars/workshops, successful entrepreneurs and experts in trade areas should be invited by the seminary workshops. entrepreneur to successful entrepreneurs and be invited be invited be invited to seminars/workshops, successful entrepreneurs and su seminars/workshops, and helps then to broaden business skills as business planning sthem to deliver lectures on entrepreneurship practices. Such business skills as business planning sthem to know more about entrepreneurship practices. Such business skills as business planning skill deliver lectures on the deliver lectures on the second deliver lectures of the second deliver lectures on the second deliver lectures of the second deliver know more about time management, people management, customer's relation and marketing of goods and marketing of go services should be taught. At times this is done in the schools.

Practical Entrepreneurship Skills Acquisition Counseling Practical Entrepreneurship Skills Acquisitors

Practical Entrepreneurship Skills Acquisitors

Lukman and Oviawe (2010) opined that the entrepreneurial teacher needs to counsel the benefits, importance, significance and contributions of entrepreneurial teacher needs to counsel the benefits, importance, significance and contributions of entrepreneurial teacher needs to counsel the benefits, importance, significance and contributions of entrepreneurial teacher needs to counsel the benefits. Lukman and Oviawe (2010) opined that the only Lukman and Oviawe (201 students on the benefits, importance, significant students of the benefits students of the benefits of the benefits students of the benefit students of the benefits students of the benefit students of the benefits students of the benefit students of the education to the national development. The education to the national development education e authority/counselors to regularly organize places and establishing with the skills of writing business plans, feasibility report, securing finances and establishing with the skills of writing business plans, feasibility report, securing finances and establishing with the skills of writing business plans, feasibility report, securing finances and establishing with the skills of writing business plans, reasonable with the skills of writing business business. The issue of practical work should be taken seriously if students must acquire entrepreneurial skills.

Youth Laxity

Youth Laxity
Some of our youth(s) in this country are no longer ready to work and achieve their daily bread Some of our youth(s) in this country are not some of our youth(s) They engage in various vices in our ingree means the engage in various vices in our ingree means acquiring the proper entrepreneurship skills in these institutions. These vice include: cultism acquiring the proper entrepreneurship skills in these institutions. These vice include: cultism acquiring the proper entrepreneurship skills in these institutions. acquiring the proper entrepreneursing states acquiring the proper entrepreneurs acquiring the proper challant behavior among others.

Prospects of Entrepreneurship and Skills Acquisition In Nigeria

The prospects of curriculum innovation in science and technology education vis-vis entrepreneurship and skills acquisition are very bright. Recently, the Federal Government the education sector in Nigeria to work for the charged all stakeholders in the education sector in Nigeria to work for the successful implementation of the newly introduced nine-year Basic Education Curriculum and the senior Secondary School Education Curriculum Structure. Ibe and Igwe (2010) called on the state government recently to provide adequate fund and enhance the professional standards of teachers and ensure equitable remuneration to make the curriculum workable. According to him, "the implementation of the 9-year basic education curriculum and indeed the senior secondary education curriculum is a task for all of us to tackle.

## Stakeholders Summit on Education

Goodluck (2010) recently summoned an emergency stakeholders' summit on education. The resolutions at the end of that summit indicated that henceforth, there will be increase in funding of education, overhaul of infrastructures improvement of academic and non-academic staff and

Reduction in Crime/Corruption

The inculcation of entrepreneurship education in our youths (students) will help in no small way to give them self-employment, a feeling of self-fulfillment; satisfaction will increase at the expense of greed and avarice that encourages corruption and other vices. When someone is gainfully employed, his mind is always occupied on how he will improve on his job which consequently attracts more rewards to him.

Increase in Industrial Development

The inculcation of entrepreneurship education and skills acquisition will help to create the spirit

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of exploration in students, this gives them the ability to create new things, new jobs which will of exploration of the gives them the ability to create new things, new jobs which will also deals the interest of the students in politics which also create employ and experiments in the country and eradicate poverty. This will also deemphasize the interest of the students in politics which causes thurgery, kidnapping, armed emphasize the students in politics which causes thurgery, kidnapping, arm pobbery and other social vices thereby boosting industrial development (Ibe and Igwe, 2010).

Regular Field Trips to Entrepreneurs Workshops

Regular Flore entrepreneurship education and skills acquisition, there should be regular visits to For effective process of the entrepreneurs workshops. Therefore, entrepreneurial education, there should be regular visits to entrepreneurize visits to local, or states entrepreneur workshops. organize visits to local, or states entrepreneurial education teachers should regularly organize thidents the opportunity of learning and better students. Field trips (visits) organize violation of learning and becoming familiar with entrepreneurial and management skills.

Strategies Necessary, for Promoting Entrepreneurship Education and Skills Acquisition Strategies will help in promoting entrepreneurship Education and Skills Acquisition
The following strategies will help in promoting entrepreneurship education and skills

Organizing internship programmes for students.

Organizing seminars, workshops for students/teachers. 2.

practical counseling on entrepreneurship and skills acquisition for students. 3.

Accessibility of loans, that is granting soft loan to graduates to enable them start of their

Rewarding students that perform well in entrepreneurship and skills acquisition activities.

Conclusion

The main aim of, entrepreneurship education and skills acquisition in Nigeria education system is to produce graduates (school leavers and university graduates) who are creative, confident and self-reliant. The education system should be functional and effective so that the students would be able to acquire entrepreneurial skills that would make them self-employed after graduation.

Entrepreneurship education and skills acquisition are very important in economic development of any country, therefore, all relevant agencies, 'and stakeholders in the education sector, especially those involved in entrepreneurship- education- in. Nigeria should pay attention on skills acquisition which will enable our youths to be self-employed and consequently selfreliant. The curriculum of our schools should be structured to meet the needs of the society and. the emerging new world order.

Recommendations

Based on the usefulness of entrepreneurship education and skills acquisition in national development, this paper recommends that:

- Graduating students should be made to undertake feasibility studies of entrepreneurial ventures of their interest and summit proposals as part of therequirements for graduation.
- A deliberate policy to 4nclude entrepreneurship education and skills acquisition in school curricular should be made.
- Entrepreneurship education and skills acquisition should be made available right from the 3. primary level to the tertiary level.
- 4. Entrepreneurship education and skills acquisition should be compulsory at all levels of our education system
- Adequate sensitization campaign should be carried out to educate people on the importance of entrepreneurship education and skills acquisition.
- The local, states and Federal governments should fund entrepreneurship education properly by providing all the equipment, fund, facilities needed for its functionality in orderto make ourgraduates self-reliant.
- Monitoring and evaluation to assess the success of the link between entrepreneurship education and self-reliance, (Agi, 2011).

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