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# Art and Industrial Design in Skill Development, Discovery and Modernization

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**Abstract**— Historically every generation of mankind continue to search for socio-economic development and self- actualization for human survival. The quest for self- actualization became a panacea for skill acquisition, development, discovery and modernization which in a real sense can best be achieved through the fundamentals of Art and Industrial Design. The modern transformation of visual arts which encompass technological and scientific approach for Industrial revolution can be achieved through Graphics, Ceramics, Textiles, Glass Technology, Clothing technology, Photography and Leather technology. Therefore, these Industrial Design courses prompt and give room for basic skills acquisition and development which enhance innovation and invention through critical thinking and application using different media for selfexpression. Consequently, this paper highlights the importance of art and industrial design in developing different skills as well as involves innovations and invention for self- actualization in art, science and technology trends.

Keywords— Arts, Science, Technology, Modernization, Self-actualization and Socio Economic Development.

### INTRODUCTION

Art and its products are certainly used every day in live for the continuous existence of man. Art involves life normally because it is all about us and what is around us. Human beings, and every other mortals both living and nonliving are products of Art created by God Almighty. Beside that the way we reason and every action we take involves thinking and rethinking, creating and recreating, producing and reproducing. Wally (1987) aver that art acts as an intermediary for cultural regeneration and functions beyond the conventional phrases of human expression which is not limited to one technique or connotation but it appeals to inspiration from visual language and practices. In that regard, art is misconstrued by many people in the society as a result of religious, cultural, and psychological believes among the educated and uneducated individuals. Therefore, it is very vital to discuss the significance of art.

# THE MEANING OF ART AND INDUSTRIAL DESIGN

According to Wangboje (1982) Art is a process similarly a product. As a process, art is an avenue through which we give intense and tangible expression to our thoughts and our mood about manmade and natural objects in our environment. As a product, art encompasses all the by-products such as images, illustrations,



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pictures, building structure, clothing and designs, automobiles, furniture, utensils and other manmade objects, all these are termed as art products It is significance to acknowledge that every society, civilization or group of people throughout history use art forms and art products to prompt thoughts and moods that add value to life. As such every people are identified by their artifacts or culture which originated from Art. Industrial design is another aspect that is concerned with human quest for aesthetic appreciation, demand for goods and services through mass production manually or mechanically, which deals mainly with the finishing and services or consumption of goods for human comfort.

In the same vein, Rishante (1998) opines that industrial design is the art of machine and is entirely different from handcraft. It brings together art, science and technology for design of products in a larger quantity for profitable drives. To support this assertion, Talabi (1991) states that art supports industrial and scientific development as the artists create opportunities while the scientist through enquiry makes them conceivable.

The industrial designers are concerned with the human nature, his comfort, aesthetic needs, functions, hope and means of survival as they rise. The industrial products provide for such needs like; fashion and design, interior and exterior decorations and the artist is involved in the provisions of these goods and services. Yunus (2012) summed it up and state that design otherwise art is essential in skilled works in engineering technology and architecture. In his own view, Talabi (1991) had earlier retorted that art is an essential feature of sciences, and the artist made discoveries through the thoughtfulness of perception, while the scientist developed a mechanism to advance this visual perception through research and development. In other words, the artist specifies the potentials in his or her imaginative submissions and the scientist makes them conceivable through research. For example, Leonardo da Vinci was the first to propose clearly the idea of flying machine (airplane) and it took science four hundred years to actualize the invention into practical test. Likewise, the idea of a rocket to be shot to the moon was first projected by an artist.

According to Black (1988) in Akolo (2000) assert that art is a typical and straightforward practice of expression, a universal graphical language for communication which everybody must learn and apply as it is bound on every human activity. Art is also the process of doing something, the result or product of what is done is utilized for human satisfaction. Therefore, if art were not applied in everyday activities, life would have been meaningless. There is a need to reassess art, art courses, art works or art products in order to give its rightful place in the national development program and in teaching and learning in school as subject that contributes to human transformation.

### THE ART COURSES IN INDUSTRIAL DEVELOPMENT

The complexity of art has made it very difficult for the Artist to coin a single name that can define the course and its meaning. However, it is sometimes identified as art and craft, visual art, fine art, applied art and



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creative art. They are further classified into subjects such as ceramics, graphics, painting, sculpture, textiles, photography, basic design, fashion design, drama, music, Poetry, art education and art history. Most of the art products are best completed in the industry through industrial design applications. This is common in all packages and the graphic illustration processes for easy identification and consumption.

It is factual that there can be no meaningful technological and scientific development and industrialization without art. The designers otherwise artists and the industrial designers are significant as they play vital roles at every stage of the development of every industrial or technological production to the scientific functioning of every successful product, right from the conceptual to mechanical functioning of components. The shape of the product is designed to hold the components together in a practical manner. The artist is responsible for this task. Deliberate fanciful, attractive and suitable packages are designed and produced for marketing all products by the Graphic artist who is endowed with the aesthetic technical and artistic skills, application, production principles and knowledge.

Nwoko (2006) opines that an artist who produced and developed the modern technology at the beginning only made provision for the means to withstand its survival and validity by re-forming and replicating the forms and systems of same surviving engines and perhaps their sources of energy as embarked upon by the scientists. The developed nations seemed to understand the roles and meanings of Art and Industrial Design in their scientific and technological engineering development. As such the tripod was adopted and sustained in the physical growth of an individual's world and basic needs, which resulted to Industrialization, Art and Industrial Design, apart from developing the mind and personality of an individual, it's also designed and improve the visual language of the learner.

Bisalla (2019) aver that the importance of art in human development cannot be questioned because art is a tool and subject for a child lingual Franca, through art the child's level of comprehension and judgments are made purer, other subjects involves visuals, and drawings to back up the procedure of learning and teaching. Therefore, art should be consciously taught for the purposes of developing the creative capability of the learner to enable the learner perceive and interpret 3 dimensional and 2 dimensional objects in pictorial rendition or as illustrated. Furthermore, it also renders the learner with the knowledge of physical properties and physical materials, likewise to advance the learners' ability with cautious consideration to specifying application in architecture and engineering. It also improves the aesthetic knowledge, appreciation of principles, elements of design and their application.

#### **ART VALUE**

The value of Art cannot be underestimated as there are numerous benefits of this exercise to the public; some of these art values are to provide a good living for the artist and his customers or patrons. For example Royal or Court arts stresses for the representations of the Kings and Queens or Monarchs, elites and the rich in the society either living or dead. An artist that produces such art works is paid well which serves as



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a basis of livelihood and made the artist to be self-reliance and this goes a long way in alleviating poverty in the society. The graphic artists are the designers of all currencies, bill boards, and package design for products, pictures and illustrations in textbooks. In the case of sculptors they are the producers of artificial human parts that are used in the hospitals for patients that lost parts of their bodies in accident, beautification of public buildings and city centres, through the erection of statues and symbols especially at the roundabouts in urban areas and cities. They also produce models or replicas of machines, automobiles, and design on building structures using plaster of Paris, Metal and cement.

Robin (1990) states that the artist produces designs in form of patterns and motifs, monumental objects, decoration of shields, symbols on currencies, illustration on books and maps are product of art. Art works also serves as socio economic drives to artists and the society as they stimulate trade and commerce as well as enhanced the income of individuals which serves as a good source of revenue for the society. It is very glaring that art and creativity have led to development of industrial materials and their application as embodied on our building edifices and roofs, canvas, office and domestic products, communication gadgets, automobiles and so on. Art has been used as an instrument in the process of change in every society through multi- media advertisements in order to disseminate information as well as create awareness in the society. It is undisputed that Art is charged with the responsibility to stimulate and influence creativity, innovation and invention of an individual or group of persons.

Art education therefore imparts knowledge on self-satisfaction and also liberates one from self-indulgence, resentment, contempt for fellow man through the involvement of concepts, working materials, and tools. It dismays the self-destructive assertiveness as the child or learner works with the spirit of creation.

# ART IN SKILL DEVELOPMENT AND SELF ACTUALIZATION

It is revealed in Talabi (1991) that the prospect of a child is typically designed at pay. As such art exploits such avenues to explore natural trends by presenting group activities and assigning tasks such as group leader, group representative in charge of class work and in charge of materials. At the first cognitive stage the child discovers and examines some things as his sensory organs are at work. Art utilizes such window period by engaging the child in experimentation in drawing or modeling objects of his choice. The other stage is the representational stage. Here the child looks at every object as representational. The child at this stage is out to accomplish his innovative and artistic approaches in craftsmanship. At this stage or period there is a provision for every necessary materials needed to enable the child develop appropriately. This is the period where a satisfactory environment is created for the child.

The third stage of child developmental stages is the inquisitive stage. At this stage the child wants to know, how, what, which and who made what. The child is convoluted in intellectual and perceptive reasoning. Therefore the child is capable of reasoning, relating, comparing and contrasting. He is capable of seeing details of physical features thereby prompting art to take advantage as the child engaged in life drawings



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and depiction of objects in realistic form, this is when the child begins to appreciate beauty and like art naturally. By this development there will be provision of art materials, and guiding the child sensitively in a technical manner in other to stimulate the child in developing talents, techniques, art events and art projects as the child proliferate in knowledge and wisdom.

## **ART PROFESSIONAL CAREERS**

There are many professional careers in Arts and Industrial Design, as these comprise of fashion design, photography, curating, graphic design, painting and illustration, sculpture, ceramic, textile design, craftsmanship, film making, drama, music among others. No serious artist is idle or unemployed except he/she does not learn and acquire any of the skills in the art profession.

### CONCLUSION

With the clarification of the meaning of Art and Industrial Design, digestion of its roles in human and industrial development and the disclosure of its values and professions, it is believed that this material would fill a gap in the quest for sustainable development in the current Engineering, Scientific, and Artistic, needs likewise proffer a solution to the current socio- economic challenges of the developing nations.

# REFERENCE

- [1] Akolo, J.B. (2000) the Relevance of Art Education in the 21st Century: An inside into the affairs at Secondary School level, Kaduna, Nigeria. A Journal of Art Education, Vol. 1, No 1.
- [2] Bisalla, M.A. (2019) the role of art in the development of Polytechnic Education in Nigeria, Nigerian Journal of Art and TourismVol.2 No.1, publication of Lafia, National Gallery of Art.
- [3] Nwoko, D. (2006) the Aesthetics of Art in Technology, Human Creativity as Inspired by Nature. Nigeria, National Gallery of Art.
- [4] Rishante, S.J (1998) "Industrial Design: "A synthesis of Visual Communication and Creativity". Jos, Nigeria, Launi Press Ltd.
- [5] Robin Copon (1990) "Art and Design Drawing" Halley Court Jordan Hill Oxford, Heimann Education Books Ltd.
- [6] Talabi George (1991) "Art Teaching in African Schools", Ibadan Nigeria, Heimann Education Books PLC.
- [7] Wally Caruana (1987) Aboriginal Art, New edition. Singapore, Thames and Hudson World or Art, C.S/Graphic.
- [8] Wangboje, S.I (1982) "Art for Junior Secondary Schools", Alberta, Canada, Molton Publishing Consultant Ltd.
- [9] Yunus, M. (2012) "The Theory and practice of Industrial Design, with examples from Invention to State of the Art", Kaduna, Nigeria, Sarumedia Publishers.