

**CURRICULUM IMPLEMENTATION IN AGRICULTURAL EDUCATION AND  
NATIONAL DEVELOPMENT: PROBLEMS AND PROSPECTS**

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**Abstract**

Agricultural education in Nigeria plays a vital role in socio-economic development, relying on effective curriculum implementation. This paper looked that the challenges and prospects of implementing agricultural education curriculum in Nigeria by identifying the problems and prospect for national development, through a comprehensive literature review, including scholarly articles, reports, and policy documents, key themes such as historical evolution, challenges, prospects, and recommendations were analyzed. Historically, agricultural education transitioned from colonial exploitation to national development, facing hurdles like infrastructure deficits, outdated teaching materials, and policy fragmentation. Opportunities for improvement include curriculum reform, partnerships with agro alien industries and entrepreneurs, teachers and training institution, technology integration, and stakeholder engagement. Successful curriculum implementation is crucial for driving national development through agricultural education. Addressing challenges and leveraging opportunities can enhance the quality, relevance, and impact of agricultural education, promoting sustainable development and prosperity. To maximize the impact of agricultural education, Nigeria should prioritize curriculum reform, foster partnerships, invest in teacher training and technology, and enhance stakeholder engagement within a concise framework for sustainable development.

**Keywords:** Agricultural Education, Curriculum Implementation, National Development

Opportunities, Entrepreneurs, Sustainable Development.

**Introduction**

Agriculture is family tradition, providing employment, livelihood, history have shown that every community is established based on its agricultural advantages. The traditional African setting Nigeria inclusive, imbibes the culture of educating the younger members of the family with the aim of carrying the community as well as family values. The teaching is informal as it's involve imitation and mastering the parental method of farming, graduation is made

possible once the learner is matured and have responsibility attached to him. This informal method of teaching prepared the learner not only understanding agricultural values and setting, but equipped him with skills for the world of work. In formal education called agricultural education.

Curriculum implementation in agricultural education is the process of translating agricultural education curriculum plan into teaching and learning activities to achieve educational objectives (Adewale, Ogbonnaya and Egbule, 2022). Effective curriculum implementation in agricultural education enhances students learning outcomes; contribute to national development as well as addressing global agricultural challenges

National development is paramount to agricultural education and productivity, the enhancement of economic, social, environmental and political well-being through sustainable agricultural practices, innovation and human capacity building is achievable through well planned and implemented curriculum programme.(Adebayo, Olatunji and Akinwumi, 2020)

Agricultural education is a crucial component of Nigeria's developmental agenda, as it unites various information, skills, and innovative elements that are necessary for promoting sustainable growth and socio-economic change (Adewale, 2019). Ogunlela and Faturoti, 2017. Identifies the needs of agricultural education in Nigeria is greater than ever, given the country's expanding population, changing agricultural landscapes, and international demands for environmental sustainability and food security. But agricultural education's effectiveness depends on how well its curriculum is implemented, in schools and other institution of learning by following and in accordance with the national policy on education

Setting off on an exploration of Nigeria's educational terrain particularly agricultural education, requires a sophisticated comprehension of its historical foundations, contextual nuances, and modern demands (Adekunle, 2015). The history of agricultural education in

Nigeria is woven together by a multitude of factors, including the demands of a fast changing globalized world, colonial legacies, and post-independence goals (Smith, 2008). Agricultural education's evolution has mirrored the country's quest for identity, autonomy, and prosperity. It started out as a cog in the colonial exploitation machine under colonial tutelage and evolved into a vehicle for national development and self-reliance after independence.

The curriculum has a crucial role in determining the characteristics of agricultural education in Nigeria since it serves as the cornerstone around which all educational activities are constructed (Afolabi, 2020). Fundamentally, the curriculum acts as a road map, outlining the goals, order, and extent of educational programs as well as the path that students must take to get the information, abilities, and attitudes that are relevant to the agricultural industry. A strong curriculum in agriculture education goes beyond traditional classroom pedagogy to facilitate experiential learning, real-world application, and holistic growth (Eze, 2019). It is a dynamic artifact that is always changing to meet new demands from society, developing trends, and technology breakthroughs, all the while staying rooted in the age-old ideas of rural development and sustainable agriculture. However, there are several obstacles standing in the way of effectively implementing agricultural education curriculum in Nigeria, making it difficult to realize this ambition (Olaitan & Bello, 2021). These issues present significant obstacles to achieving educational goals, ranging from systemic inadequacies in infrastructure and resources that compromise the accessibility and quality of agricultural education to the widespread mismatch between curriculum content and the demands of contemporary agricultural practices. To make matters worse, the disjointed environment in which policies are formulated and implemented leads to inconsistencies, inefficiencies, and disparities that make it difficult to carry out educational efforts in a cogent manner.

But in the middle of these difficulties, there are also opportunities to revive, rethink, and reimaging agricultural education in Nigeria for the twenty-first century and beyond (Adekoya, 2018). Stakeholders can use the transformational potential of agricultural education to create equitable growth, stimulate technical innovation, and promote sustainable development by harnessing the synergies between academics, industry, government, and civil society. Nigeria can steer towards a future where agricultural education acts as a catalyst for national prosperity and well-being by making strategic investments in curriculum review and reform, along with focused interventions to improve teacher training, infrastructure development, and stakeholder engagement.

It is essential to take a comprehensive and inclusive strategy while traversing the challenging terrain of curriculum implementation in agricultural education. This approach should recognize the interdependence of educational, economic, social, and environmental elements of development, such as the industries, community stakeholders, policy makers and implementers. Nigeria can fully realize the promise of its agricultural education system by embracing innovation, teamwork, and evidence-based policymaking. This will enable students to become change agents, environmental stewards, and catalysts for equitable development. In order to better educate policy, practice, and research in this important area, this paper aim at shedding light on the possibilities and problems associated with implementing the curriculum in agricultural education in Nigeria. It does this by providing insights, opinions, and suggestions. Nigeria may realize the transformational potential of agricultural education and lead the country toward a future of wealth, sustainability, and resilience by tackling the obstacles head-on and seizing the many possibilities.

## **Nigerian National Development and Agricultural Education Curriculum Implementation**

Nigeria's historical trajectory is intricately linked to the country's agricultural education system. A workforce suited to sustain the colonial agricultural economy was the main goal of agricultural education during the colonial era, which was largely created to satisfy the demands of the colonial government (Smith, 2008). During this time, the curriculum frequently placed more emphasis on labor-intensive, fundamental agricultural skills than it did on creativity or self-sufficiency.

Nigeria set out on a mission for economic independence and self-reliance after gaining its freedom. Agricultural education changed, moving away from its colonial foundations and toward a more nationalistic goal. Given the abundance of traditional agricultural knowledge that existed within the local communities, efforts were undertaken to include indigenous knowledge systems and practices into the curriculum (Adekunle, 2015). During this time, agricultural research centers, colleges, and extension services were established with the goal of advancing contemporary farming practices while maintaining traditional ones.

But even with these advancements, colonialism's legacy remained a cloud over agricultural education in Nigeria. Western paradigms continued to have an impact on the curriculum, frequently giving cash crops and export-oriented agribusiness precedence over the needs of regional populations. In addition, as the post-independence era quickly became more urbanized and industrialized, agriculture's standing as a viable career option decreased, this in turn caused a reduction in the number of students enrolled in agricultural education programs.

### **The Need of Implementing Curriculum**

The curriculum is the foundation of agricultural education; it represents the goals, expertise, and values of all parties involved, from farmers to legislators. It outlines the goals, sequencing, and scope of educational programs, giving students a road map for gaining the abilities, know-how, and mindset required to succeed in the agriculture industry.

Beyond merely imparting academic information, a strong curriculum develops critical thinking abilities, problem-solving techniques, and a strong dedication to sustainable farming methods. It combines real-world exposure, fieldwork, and experiential learning opportunities to make sure graduates are prepared to take on the complex problems facing contemporary agriculture.

However, successful implementation is necessary to convert curricular principles into concrete educational outcomes. This is a complex process that includes stakeholder participation, resource allocation, teacher training, and curriculum creation. Numerous issues exist, such as antiquated instructional materials, poor infrastructure, and a lack of trained teachers. Additionally, there is frequently a mismatch between graduates' skill sets and industry demands due to a divergence between the curriculum and the reality of the agricultural sector.

It is impossible to overestimate how important it is to execute curricula despite these obstacles. It is the cornerstone that connects academic goals with practical application, creating the groundwork for long-term agricultural growth and societal success. The efficient implementation of agricultural education curricula becomes a major issue as Nigeria looks to harness the transformational potential of agriculture to assure food security, stimulate economic growth, and alleviate poverty.

### **Problems of Agricultural Education Curriculum Implementation**

**1. Infrastructure Deficits:** A major obstacle to the successful implementation of agriculture education curricula is the poor condition of infrastructure in many educational institutions. Practical learning experiences are hindered by a lack of infrastructure, including modern agricultural equipments, demonstration farms, and laboratories. In addition to impeding

students' capacity to gain practical skills, this lack of infrastructure lowers the caliber of research and experimentation carried out in academic contexts (Ogunlela & Faturoti, 2017).

**2. Outdated Teaching Materials:** The difficulties encountered in agriculture education are made worse by the widespread use of out-of-date teaching materials. A lot of manuals, textbooks, and educational materials don't adequately cover the latest innovations, technology, and farming techniques. There is a gap between theoretical understanding and practical application as a result of this divergence between the curriculum material and modern agricultural realities, which makes it difficult for students to understand contemporary concepts and procedures (Olaitan & Bello, 2021).

**3. Lack of competent teachers:** One major obstacle to the successful implementation of curricula is the lack of competent teachers who are adept in both theoretical knowledge and practical abilities. It is difficult for many educational establishments to find and keep qualified professors with experience in the agricultural sciences. Due to this shortage, students are deprived of crucial mentoring and advice that is necessary for their growth as agricultural professionals, which also lowers the quality of instruction (Adekoya, 2018).

**4. Relevance and Practicality:** Another difficult obstacle in agriculture education is making sure the curriculum is both relevant and practical. Due to market needs, technical improvements, and environmental concerns, the agricultural sector is always changing. Unfortunately, curriculum creation procedures frequently fall behind these developments, leading to educational programs that are out of date or not adequately flexible. The efficiency of educational endeavors in educating students for the dynamic problems of the agricultural business is diminished by the gap between curricular material and real-world agricultural practices (Eze, 2019).

**5. Policy Fragmentation:** Coherent curriculum implementation is systemically challenged by the fragmented environment of policy creation and implementation in Nigeria's educational sector. Confusion is caused and the alignment of curricular objectives with national development aspirations is hampered by policy inconsistencies and contradictions at various governmental and educational levels. The potential contribution of agricultural education to national development goals is hindered by the lack of consistency in policy, which also weakens attempts to increase agricultural education's quality, relevance, and accessibility (Afolabi, 2020).

### **Prospects for Agricultural Education Curriculum Implementation**

**1. Curriculum Reform and Review:** There is need for regular review and updating of the curriculum of agricultural education in order to offer greater chance for progress. Prioritizing relevance, feasibility, and congruence with national development objectives should be the focus of curriculum reform initiatives by increasing practical skills learning and development of intrinsic interest among learners in agricultural education. Curriculum designers should ensure that educational programs are sensitive to the changing demands of the agricultural industry by embracing emerging trends, technological improvements, and stakeholder input (Olatunji & Oluyide, 2020). So that curriculum will become relevant to the needs of the society and contribute to national development.

**2. Collaboration and Partnerships:** Enhancing curriculum implementation may be possible through partnerships and collaborations between educational institutions, the agriculture sector, governmental entities, and community groups. Collaborations can make it easier to share resources, knowledge, and best practices, which can enhance learning and promote creativity. Educational institutions can improve their ability to provide high-quality agriculture education that satisfies the demands of both students and industry by utilizing the

combined knowledge and resources of many stakeholders (Adekoya, 2018). The effect of collaboration and partnership in agricultural education not only develop intrinsic interest in learning, but also enable learners have opportunities of seeing the different phases of agricultural development and improvement outside their institutions

**3. Teacher Training and Professional Development:** Investing in professional development initiatives and teacher training programs is essential to raising the standard of agriculture education. Effective curriculum implementation requires providing educators with the pedagogical abilities, subject matter expertise, and real-world experience necessary to give high-quality training. Educational institutions may enable faculty members to flourish in their positions as mentors, instructors, and role models by providing chances for continuous professional development (Ogunlela & Fatureti, 2017). Training development in capacity building provide the teachers with new knowledge, skills and abilities to meet the needs of the learners and that of the society

**4. Technology Integration:** Using technology to improve learning outcomes and the way curricula are delivered offers a possible path forward. Digital resources, e-learning platforms, and software for agricultural simulation may be integrated into the curriculum to improve student engagement, enable interactive learning, and close the knowledge gap between theory and practice. Educational institutions may develop dynamic and engaging learning experiences that equip students for success in the digital era by embracing technology-enabled learning solutions (Olaitan & Bello, 2021). Technology in recent time change the phase of teaching and learning, agricultural production and productivity is not left out. Integrating technology into agricultural education will provide the learners with understanding of modern agricultural development of which they are expected to play significant role.

**5. Stakeholder Engagement:** To guarantee relevance and efficacy, stakeholders such as farmers, agribusinesses, legislators, and community leaders must be included in the curriculum creation and implementation process. Curriculum design may be informed by stakeholder consultation to better understand their requirements, goals, and concerns, and to increase the curriculum's effect on national development. Educational institutions are expected to make sure that the many viewpoints and goals of the communities they serve are reflected in their curricula by encouraging a culture of cooperation and shared ownership (Eze, 2019). These stakeholders are directly link to both the learners, they decide what the society needs and how it should provided. The role of institutions is the facilitation and achievement of learning objectives and national goals, which will become possible through engagement.

## Conclusion

In conclusion, Nigerian national growth depends on the successful implementation of agriculture education curricula. Though confronted with formidable obstacles including inadequate infrastructure, antiquated instructional resources, and a scarcity of skilled educators, encouraging opportunities exist for advancement. Nigeria may improve the standard, applicability, and effect of agriculture education by tackling these issues and seizing possibilities for collaborations, curriculum reform, teacher preparation, technological integration, and stakeholder involvement.

The information, abilities, and attitudes that students need to confront the many issues that the agriculture industry faces—such as food security, environmental sustainability, and rural development—are mostly provided by agricultural education. Nigeria can leverage the transformational power of agriculture to generate economic growth, relieve poverty, and

improve the well-being of its inhabitants by investing in curriculum implementation and establishing an ecosystem that supports agricultural education.

### Recommendations

1. **Invest in Infrastructure:** To improve students' hands-on learning experiences and encourage research and innovation in agricultural education, give top priority to investments in educational infrastructure, such as labs, demonstration farms, and contemporary agricultural equipment.
2. **Revise and update instructional materials** often to make sure they accurately depict modern farming techniques, innovations, and technology. Create multimedia and digital resources to support traditional teaching materials and improve learning outcomes and student engagement.
3. **Improve Teacher Training:** Give agricultural educators continual chances for professional development to improve their subject-matter expertise, teaching abilities, and hands-on experience. Encourage industrial partners and educational institutions to work together to promote mentorship and information sharing.
4. **Integrate Technology:** To improve curriculum delivery and give students engaging, interactive learning experiences, make use of technology-enabled learning solutions, such as mobile applications, e-learning platforms, and agricultural simulation software.
5. **Boost Stakeholder Involvement:** Involve stakeholders in the creation and execution of the curriculum, such as farmers, agribusinesses, legislators, and local leaders. In order to make sure that educational programs satisfy the demands of the agricultural sector and advance national development goals, it is important to encourage partnerships and collaborations between educational institutions, governmental organizations, and industry players.

By putting these suggestions into practice and developing a comprehensive curriculum design and implementation strategy, Nigeria may fully realize the potential of agriculture education to promote social advancement, economic growth, and sustainable development.

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