

INTRODUCTION TO TILAPIA CULTURE AUBURN UNIVERSITY Study Guide

Introduction to Tilapia Culture Auburn University

Tilapia farming has gained significant popularity worldwide due to its rapid growth rate, adaptability to various environments, and high nutritional value. Among the many institutions contributing to aquaculture research and development, Auburn University stands out as a prominent center for studying and promoting tilapia culture. This article provides a comprehensive overview of tilapia culture with a focus on Auburn University's contributions, practices, and research initiatives. Whether you are a novice fish farmer or an experienced aquaculturist, understanding the fundamentals of tilapia cultivation at Auburn University can enhance your knowledge and application of sustainable aquaculture practices.

Overview of Tilapia as a Species

Tilapia are freshwater fish belonging to the cichlid family, native to Africa and the Middle East. Their popularity in aquaculture stems from several advantageous traits:

Key Characteristics of Tilapia

- **Fast growth rate:** Tilapia can reach market size in as little as 6-8 months under optimal conditions.
- **Hardy nature:** They tolerate a wide range of water conditions, including varying pH, temperature, and oxygen levels.
- **Reproductive capacity:** Tilapia are prolific breeders, which simplifies stocking and restocking processes.
- **Diet adaptability:** They are omnivorous and can thrive on a variety of feed types, including formulated feeds and natural diets.
- **Market demand:** Their mild flavor and firm texture make tilapia a popular choice in global markets.

Auburn University's Role in Tilapia Culture

Auburn University has long been a leader in aquaculture research, particularly in tilapia breeding, nutrition, and sustainable farming practices. The university's Auburn University Aquaculture Research Program (AARP) actively investigates innovative methods to improve tilapia production

efficiency, disease management, and environmental sustainability.

Research and Development Initiatives

- **Selective Breeding Programs:** Auburn University develops fast-growing, disease-resistant tilapia strains to enhance productivity.
- **Optimal Feeding Strategies:** Researchers study balanced diets that promote growth while minimizing feed costs.
- **Water Quality Management:** The program explores methods to maintain ideal water parameters and reduce environmental impacts.
- **Disease Prevention and Control:** Focus on managing common tilapia diseases such as Streptococcosis and Columnaris through vaccines and biosecurity measures.
- **Sustainable Farming Practices:** The university promotes eco-friendly aquaculture techniques, including Recirculating Aquaculture Systems (RAS) and integrated farming models.

Tilapia Culture Systems Employed at Auburn University

Auburn University employs various tilapia culture systems tailored to different scales and environments. Each system offers unique benefits and challenges.

Earthen Pond Culture

This traditional method involves rearing tilapia in natural or constructed ponds. Auburn's research has optimized pond management techniques such as stocking density, fertilization, and aeration to maximize yields.

Recirculating Aquaculture Systems (RAS)

RAS offers a controlled environment for tilapia culture, recycling water and reducing environmental footprint. Auburn's RAS research focuses on system design, water quality control, and energy efficiency.

Indoor Aquaculture Facilities

Indoor systems allow year-round production and precise environmental control. Auburn University's facilities demonstrate the use of tanks, biofilters, and aeration to optimize tilapia growth.

Best Practices in Tilapia Culture at Auburn University

Implementing best practices is crucial for successful tilapia farming. Auburn University emphasizes

the following key practices:

Water Quality Management

- **Monitoring parameters:** Regularly check pH, dissolved oxygen, ammonia, nitrite, and nitrate levels.
- **Maintaining optimal conditions:** Ideal pH ranges from 6.5 to 8.0; dissolved oxygen should be above 5 mg/L.
- **Water exchange and filtration:** Use biofilters and controlled water exchange to prevent toxic buildup.

Feeding Regimen

- **Balanced diets:** Use high-quality commercial feeds formulated for tilapia growth stages.
- **Feeding frequency:** Typically 2-4 times daily, adjusting for water temperature and fish size.
- **Feeding practices:** Avoid overfeeding to reduce waste and improve water quality.

Stocking Density and Management

- **Optimal densities:** Vary depending on the system; generally 10-20 fish per square meter in ponds.
- **Health monitoring:** Regularly check for signs of disease or stress.
- **Biosecurity:** Implement measures to prevent pathogen introduction.

Sustainable and Environmentally Friendly Tilapia Farming

Auburn University advocates for sustainable aquaculture practices that minimize environmental impact and promote resource efficiency.

Integrated Aquaculture

This approach combines tilapia farming with other agricultural activities such as plant cultivation or rice paddies, creating a symbiotic system that recycles nutrients.

Use of Eco-Friendly Feeds

The university researches and promotes the use of sustainable feed ingredients, including locally sourced plant proteins and insect meal, to reduce reliance on fishmeal.

Water Conservation Techniques

- Implementing RAS and biofiltration to minimize water use.
- Practicing pond management that reduces water runoff and nutrient leaching.

Educational and Outreach Programs

Auburn University actively engages with students, farmers, and industry stakeholders through workshops, training sessions, and extension services.

Training Workshops

- Best practices in tilapia culture and hatchery management.
- Water quality management and disease control.
- Implementing sustainable aquaculture systems.

Research Publications and Resources

The university publishes manuals, research papers, and guidelines to disseminate knowledge on tilapia farming techniques and innovations.

Future Directions in Tilapia Culture at Auburn University

Looking ahead, Auburn University aims to advance tilapia aquaculture through:

- Genetic improvements for faster growth and disease resistance.
- Development of low-cost, sustainable feed formulations.
- Integration of technology such as automation and remote monitoring.
- Expansion of small-scale and community-based tilapia farming projects.
- Enhancing environmental sustainability through eco-friendly practices.

Conclusion

The introduction to tilapia culture at Auburn University showcases the institution's dedication to advancing sustainable, efficient, and innovative aquaculture practices. Through research, education, and outreach, Auburn University continues to be at the forefront of tilapia farming technology and knowledge dissemination. Whether you are interested in starting your own tilapia farm or seeking to improve existing operations, understanding Auburn's approaches can provide valuable insights into

successful aquaculture management. As global demand for fish continues to rise, the role of institutions like Auburn University becomes ever more critical in ensuring sustainable food production for the future.

Introduction to Tilapia Culture Auburn University: Unlocking Sustainable Aquaculture Opportunities

Aquaculture continues to be a vital component of global food security, offering sustainable solutions to meet the rising demand for protein. Among the various fish species cultivated worldwide, tilapia culture Auburn University stands out as a prominent program, blending research, education, and practical application to advance sustainable fish farming practices. This comprehensive guide explores the fundamentals of tilapia culture, Auburn University's role in advancing this field, and how aspiring aquaculturists can benefit from its resources.

Understanding Tilapia: The Ideal Aquaculture Species

Before delving into Auburn University's specific initiatives, it's essential to understand what makes tilapia a popular choice in aquaculture.

Why Choose Tilapia?

- **Fast Growth Rate:** Tilapia reach harvestable sizes quickly, typically within 6-8 months under optimal conditions.
- **Hardiness:** They adapt well to various water qualities and environmental conditions.
- **Diet Flexibility:** Tilapia are omnivorous and can thrive on cost-effective feeds.
- **Reproduction:** They breed readily in captivity, reducing the need for purchasing new stock.
- **Market Demand:** Consumed worldwide, especially in developing countries, tilapia has a high market value.

The Role of Auburn University in Tilapia Culture

Auburn University, located in Alabama, is renowned for its strong aquaculture program, which emphasizes research, education, and practical application to promote sustainable fish farming. The university's Department of Fisheries and Allied Aquacultures provides a comprehensive framework for tilapia culture, focusing on optimizing growth, health, environmental sustainability, and economic viability.

Key Contributions of Auburn University

- **Research and Development:** Developing improved breeding techniques, disease management

strategies, and feed formulations tailored for tilapia.

- Educational Programs: Offering courses, workshops, and extension services to train students, farmers, and industry stakeholders.
- Facility Resources: Operating aquaculture research stations and demonstration farms to showcase best practices.
- Collaborations: Partnering with industry and government agencies to promote sustainable tilapia production.

Fundamentals of Tilapia Culture at Auburn University

Successful tilapia farming hinges on understanding critical factors such as system selection, water quality management, nutrition, and disease control. Auburn University provides guidance on each of these aspects.

System Selection: Pond vs. Recirculating Systems

- Earthen Ponds: Traditional and cost-effective; suitable for large-scale production. Require management of water exchange, aeration, and sediment.
- Recirculating Aquaculture Systems (RAS): More controlled environment, with water reuse and minimal land footprint. Ideal for research and small-scale operations.

Water Quality Management

Maintaining optimal water conditions is crucial for tilapia health and growth.

- Temperature: 25-30°C (77-86°F) is ideal for growth.
- Dissolved Oxygen: Should be above 5 mg/L; aeration is often necessary.
- pH: Maintained between 6.5 and 8.5.
- Ammonia and Nitrite Levels: Kept low through biofiltration and proper feeding practices.

Nutrition and Feeding

A balanced diet promotes rapid growth and disease resistance.

- Commercial Pellets: High-quality feeds formulated for tilapia.
- Feeding Frequency: 2-3 times daily, adjusted based on fish size and water temperature.
- Feed Conversion Ratio (FCR): Auburn research emphasizes optimizing FCR to improve economic efficiency.

Disease Management

Common issues include:

- Streptococcus infections
- Ichthyophthirius (Ich)
- Parasites

Auburn's research includes vaccination protocols, water sanitation techniques, and biosecurity measures to reduce disease outbreaks.

Sustainable Practices in Tilapia Culture

Auburn University champions environmentally responsible aquaculture practices, emphasizing:

- Water Conservation: Using recirculating systems and water reuse strategies.
- Feed Efficiency: Developing feeds that minimize waste and environmental impact.
- Habitat Preservation: Avoiding habitat destruction and promoting integrated aquaculture-agriculture systems.
- Genetic Improvement: Selective breeding programs to produce fast-growing, disease-resistant tilapia strains.

Educational and Extension Opportunities

Students and industry professionals can engage with Auburn University through:

- Undergraduate and Graduate Courses: Covering aquaculture principles, fish health, and management.
- Workshops and Seminars: Focused on tilapia culture techniques, disease control, and business planning.
- Field Visits and Demonstration Farms: Providing hands-on experience.
- Research Publications: Contributing to the scientific body of knowledge on tilapia aquaculture.

Furthermore, Auburn's extension services assist local farmers by providing technical advice, training, and access to research innovations, fostering regional growth in tilapia production.

Future Trends and Innovations in Tilapia Culture

Auburn University continues to pioneer advancements such as:

- Selective Breeding Programs: To develop strains with enhanced growth and resilience.
- Integrated Multi-Trophic Aquaculture (IMTA): Combining tilapia with other species to optimize resource use.
- Recirculating System Optimization: Improving energy efficiency and reducing operating costs.
- Utilization of Waste Streams: Using agricultural by-products as fish feed or fertilizer.

These innovations aim to make tilapia cultivation more sustainable, profitable, and environmentally friendly.

How to Get Started with Tilapia Culture at Auburn University

If you're interested in venturing into tilapia aquaculture, Auburn University offers several pathways:

- Educational Programs: Enroll in relevant courses or certificate programs.
- Research Collaborations: Partner with Auburn's researchers for technical assistance.
- Visiting Facilities: Tour research stations and demonstration farms.
- Accessing Resources: Utilize publications, guides, and extension services provided by Auburn.

Additionally, Auburn's commitment to community engagement and sustainability makes it a valuable partner for aspiring fish farmers seeking to establish or improve their tilapia operations.

Conclusion

Introduction to tilapia culture Auburn University highlights the university's pivotal role in advancing sustainable and profitable tilapia farming practices. By integrating cutting-edge research, comprehensive education, and practical extension services, Auburn equips students, farmers, and industry stakeholders with the knowledge and tools necessary to succeed in aquaculture. Whether you're a novice exploring aquaculture or an experienced producer seeking innovation, Auburn's programs and resources offer invaluable support in harnessing the full potential of tilapia culture for a sustainable future.

Embark on your tilapia aquaculture journey today by leveraging Auburn University's expertise and resources?your gateway to sustainable, profitable fish farming.

Question What is tilapia culture and why is it important at Auburn University? Tilapia culture involves the farming of tilapia fish, which is a popular aquaculture species due to its fast growth and adaptability. At Auburn University, research and education focus on sustainable tilapia

farming practices to support local aquaculture development and food security. What are the key components of tilapia culture taught at Auburn University? The program covers tilapia biology, pond management, water quality control, nutrition, disease prevention, and sustainable farming practices to ensure successful and environmentally responsible aquaculture operations. How does Auburn University support students interested in tilapia aquaculture? Auburn University offers specialized courses, research opportunities, and hands-on training in tilapia farming through its aquaculture programs, along with access to laboratory facilities and industry partnerships. What are the environmental benefits of tilapia culture promoted at Auburn University? Tilapia farming at Auburn emphasizes sustainable practices such as efficient feed use, water recirculation systems, and integrated aquaculture, which help reduce environmental impact and promote resource conservation. Can students learn about tilapia nutrition and disease management at Auburn University? Yes, Auburn University provides education on tilapia nutrition, disease diagnosis, and management strategies to ensure healthy stock and optimize production efficiency. What research initiatives related to tilapia are conducted at Auburn University? Research at Auburn includes breeding programs, feed formulation improvements, water quality optimization, and disease control methods to advance sustainable tilapia aquaculture. How does Auburn University's introduction to tilapia culture benefit local communities? By training students and supporting research, Auburn helps develop sustainable tilapia farming practices that can enhance local food production, create jobs, and promote economic growth in aquaculture-dependent regions.

Related keywords: Tilapia farming, aquaculture, aquaculture techniques, fish cultivation, freshwater fish farming, fish pond management, aquatic animal science, aquaculture research, Auburn University aquaculture, tilapia cultivation methods

Kisii university 2013 graduation

kisii university 2013 graduation marked a significant milestone in the academic journey of numerous students who had dedicated years of hard work and perseverance to achieve their dreams. As one of Kenya's reputable institutions of higher learning, Kisii University has continually emphasized academic excellence, community service, and personal development. The 2013 graduation ceremony was particularly memorable, characterized by inspiring speeches, proud families, and the celebration of accomplishments across various disciplines. This article provides a comprehensive overview of the Kisii University 2013 graduation, exploring its significance, the ceremony details, notable graduates, and the impact on the university community.

Overview of Kisii University

Before delving into the specifics of the 2013 graduation, it is essential to understand the institution's

background and its role in higher education in Kenya.

History and Establishment

Kisii University, located in Kisii County in southwestern Kenya, evolved from the University of Nairobi's Kisii Campus. It gained university status in 2010, becoming a full-fledged university committed to providing quality education, research, and community engagement. The university's mission revolves around fostering innovation, leadership, and holistic development among students.

Academic Programs and Faculties

Kisii University offers a diverse range of undergraduate and postgraduate programs across various faculties, including:

- Faculty of Education
- Faculty of Business and Economics
- Faculty of Science and Technology
- Faculty of Health Sciences
- Faculty of Arts and Social Sciences

This broad academic portfolio attracts students from different regions, fostering a vibrant campus culture.

The 2013 Graduation Ceremony

Date and Venue

The Kisii University 2013 graduation took place on a memorable date—likely in late 2013, typically around December—at the university's main campus. The event was attended by students, faculty, family members, government officials, and distinguished guests, all gathered to celebrate academic achievements.

Significance of the 2013 Graduation

For many graduates, this ceremony was the culmination of years of effort and sacrifice. It represented not just personal success but also the university's growth and commitment to producing competent professionals. The 2013 graduation was also a reflection of the university's expanding reputation and its role in Kenya's development.

Highlights of the 2013 Graduation

Number of Graduates

In 2013, Kisii University graduated hundreds of students across various disciplines. The exact number varied, but reports indicated that over 1,000 students received their degrees and diplomas during this ceremony, marking a significant increase from previous years.

Academic Excellence and Awards

Outstanding students were recognized for their exemplary performance. Several graduates received academic awards, scholarships, and medals for achieving top honors in their respective fields. These recognitions served to motivate others and uphold a culture of excellence.

Keynote Speeches and Addresses

Prominent figures, including university administrators, government officials, and industry leaders, delivered speeches emphasizing the importance of education, innovation, and service. The keynote address often highlighted Kenya's development goals and the role of graduates in national progress.

Notable Graduates and Their Achievements

Prominent Alumni

While specific names from the 2013 graduation may not be publicly documented, many graduates from this cohort have gone on to excel in various sectors such as education, healthcare, business, and government. Some have become community leaders, entrepreneurs, or academics contributing to societal development.

Success Stories

- Entrepreneurs: Several 2013 graduates established startups in Kisii and beyond, contributing to local economies.
- Public Servants: Others joined government agencies, bringing fresh ideas and youthful energy to public service.
- Academicians: Some pursued postgraduate studies and academia, further enhancing Kisii University's reputation.

Impact of the 2013 Graduation on Kisii University

Institutional Growth

The successful graduation of a large cohort showcased the university's capacity to deliver quality education and manage large-scale ceremonies. It helped boost the institution's profile both locally and nationally.

Community and Economic Development

Graduates from 2013 have played vital roles in their communities, contributing to social development, education, health, and entrepreneurship. Their achievements reflect positively on Kisii University's mission to produce socially responsible graduates.

Enhanced Reputation and Future Prospects

The 2013 graduation reinforced Kisii University's reputation as an institution committed to academic excellence. It paved the way for future expansions, new programs, and increased student enrollment.

Post-Graduation Pathways and Opportunities

Employment and Career Development

Many 2013 graduates found employment within Kenya's growing economy. Some entered the public sector, while others ventured into private enterprises or started their own businesses.

Further Education

A significant number of graduates pursued postgraduate studies locally and abroad, enhancing their qualifications and opening doors to advanced career opportunities.

Community Engagement and Impact

Graduates have continued to serve their communities through leadership roles, mentorship programs, and social initiatives, embodying the values instilled during their time at Kisii University.

Conclusion

The Kisii University 2013 graduation remains a landmark event in the university's history, symbolizing achievement, hope, and future potential. It not only celebrated individual success but also highlighted the institution's role in shaping Kenya's future leaders. As graduates from 2013 continue to make their mark across various sectors, their journey underscores the importance of dedication, resilience, and the transformative power of education. For prospective students and alumni alike, the 2013 graduation serves as a reminder of the possibilities that come with

perseverance and academic excellence at Kisii University.

Kisii University 2013 Graduation: A Landmark Event in Academic Excellence and Community Development

The Kisii University 2013 graduation marked a pivotal milestone in the institution's history, symbolizing academic achievement, community growth, and the university's rising stature within Kenya's higher education landscape. This graduation ceremony not only celebrated the accomplishments of hundreds of graduates but also reinforced Kisii University's commitment to producing competent professionals who would contribute significantly to national development. In this comprehensive guide, we delve into the significance of the 2013 graduation, explore the event's highlights, and analyze its broader implications for students, faculty, and the community.

Background of Kisii University and Its 2013 Graduation

Kisii University, located in the heart of Kisii County in Kenya, has grown steadily since its establishment. Originally a constituent college of Moi University, it gained full university status in 2010, making the 2013 graduation one of its early major ceremonies as an independent university. The event was characterized by a sense of pride, progress, and hope for future generations.

The 2013 graduation was held at the university's main grounds, attracting thousands of students, faculty members, family, and dignitaries. It was a moment of celebration for the university's academic community, marking the culmination of years of hard work and dedication.

Significance of the 2013 Graduation for Kisii University

A Milestone in Institution Development

- **Transition to a Full University:** The 2013 graduation underscored Kisii University's transition from a college to an autonomous university, reflecting its growth in size, academic programs, and research capacity.
- **Recognition and Prestige:** The event elevated the university's profile nationally and regionally, attracting prospective students, partnerships, and funding opportunities.
- **Academic Milestone:** Hundreds of students graduated with degrees, diplomas, and certificates across various disciplines, showcasing the university's diverse academic portfolio.

Community and Economic Impact

- **Local Development:** The graduation boosted local businesses, with increased demand for

accommodation, catering, transportation, and retail services.

- Social Impact: Graduates from this event became vital contributors to the Kisii County economy, health sector, education, and governance sectors, embodying the university's mission to serve community needs.

Highlights of the Kisii University 2013 Graduation Ceremony

Keynote Addresses and Dignitaries

The event was graced by prominent figures including:

- The Minister of Education or his representative
- The university's Vice-Chancellor and senior administrators
- Local government officials
- Representatives from partnering universities and organizations

These speakers emphasized the importance of higher education in national development, innovation, and community service.

Academic Achievements and Awards

- Degrees Conferred: The ceremony saw the graduation of over 2,000 students across various faculties including Education, Business and Economics, Science, Health Sciences, and Social Sciences.
- Special Awards: Outstanding students received awards for academic excellence, leadership, and community service, inspiring peers to pursue excellence.

Unique Features of the 2013 Graduation

- Cultural Displays: Traditional Kisii dances and music were showcased, highlighting local culture.
- Innovative Initiatives: The university announced new programs and partnerships aimed at enhancing research and community engagement.
- Dress Code: Graduates wore academic regalia, with some faculties adopting distinctive colors representing their disciplines.

Academic Programs and Disciplines Celebrated

The 2013 graduation covered a broad spectrum of disciplines, reflecting the university's

commitment to comprehensive education:

- Bachelor's Degrees: Education, Business Administration, Economics, Computer Science, Environmental Science, Nursing, and more.
- Diplomas and Certificates: Various technical and vocational programs aimed at skill development.
- Postgraduate Awards: Masters and PhDs in diverse fields, fostering advanced research and specialization.

Notable Graduates and Their Contributions

Many graduates from the 2013 cohort have since made significant impacts in their respective fields:

- Leaders in Education: Some have become teachers, administrators, and policymakers within Kenya.
- Entrepreneurs: Several graduates have started successful businesses, contributing to local employment.
- Health Sector Professionals: Many are working as nurses, doctors, and public health officers across Kenya.
- Researchers and Innovators: Some have pursued further studies or contributed to community-based research projects.

Challenges Faced and Lessons Learned

While the 2013 graduation was largely successful, it also highlighted areas for improvement:

- Capacity Building: The need for increased infrastructure, such as lecture halls and laboratories, to accommodate growing student populations.
- Curriculum Development: Ensuring programs remain relevant to changing industry needs and technological advancements.
- Student Support Services: Enhancing career guidance, counseling, and internship opportunities to better prepare graduates for employment.

The university's leadership acknowledged these challenges and committed to continuous improvement, laying a foundation for subsequent graduations.

Broader Impacts and Future Outlook

The Kisii University 2013 graduation set a precedent for subsequent ceremonies, emphasizing the importance of academic excellence, community involvement, and institutional growth. It fostered a culture of achievement and inspired future generations of students.

Looking ahead, Kisii University aimed to:

- Expand research and innovation hubs.
- Strengthen industry partnerships.
- Promote entrepreneurship among graduates.
- Enhance infrastructure to support higher enrollment and quality education.

The event also reinforced the university's role in Kenya's Vision 2030, particularly in education, health, and economic development sectors.

Conclusion

The Kisii University 2013 graduation remains a landmark event that encapsulates the institution's journey towards academic excellence and community development. It symbolized the aspirations of students, faculty, and the broader Kisii community to pursue knowledge, innovation, and societal progress. As graduates moved forward into their careers, they carried with them the university's values of integrity, service, and excellence—values that continue to shape Kisii University's future trajectory.

Whether reflecting on its historical significance or drawing inspiration for future endeavors, the 2013 graduation will always be remembered as a defining moment in Kisii University's ongoing story of growth and achievement.

Question When did Kisii University hold its 2013 graduation ceremony? Kisii University held its 2013 graduation ceremony in December 2013. How many students graduated from Kisii University in 2013? Approximately 2,000 students graduated from Kisii University in 2013 across various faculties and programs. Were there any notable achievements during Kisii University's 2013 graduation? Yes, the 2013 graduation was notable for its large number of graduates and the inclusion of the first postgraduate students from certain faculties. Did Kisii University 2013 graduation include international students? Yes, the 2013 graduation ceremony included a few international students who completed their programs at Kisii University. What were the main faculties represented at the Kisii University 2013 graduation? The main faculties represented included Education, Commerce, Science and Technology, and Humanities and Social Sciences. Were there any speeches or special addresses during the 2013 Kisii University graduation? Yes, the ceremony featured speeches from the university chancellor, the vice-chancellor, and guest speakers emphasizing education and development. How can graduates from the 2013 Kisii University

graduation access their transcripts or certificates today? Graduates can access their transcripts and certificates through the university's academic registrar's office or online portal, following the official procedures established by Kisii University.

Related keywords: Kisii University graduation 2013, Kisii University convocation 2013, Kisii University alumni 2013, Kisii University graduation ceremony 2013, Kisii University degrees 2013, Kisii University graduation photos 2013, Kisii University graduation program 2013, Kisii University graduation list 2013, Kisii University graduation requirements 2013, Kisii University 2013 graduation results

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