

Bending Beam Louisiana State University Printable PDF

bending beam louisiana state university is a term that resonates deeply within the fields of structural engineering, materials science, and educational pursuits at Louisiana State University (LSU). Whether you're a student researching advanced testing methods, a professional seeking collaboration opportunities, or an academic exploring innovative research, understanding the significance of bending beam tests and their relevance at LSU is essential. This article delves into the importance of bending beam testing, its applications, how LSU integrates this technique into its curriculum and research, and why it remains a cornerstone in structural analysis and materials testing.

Understanding Bending Beam Testing

What Is Bending Beam Testing?

Bending beam testing is a fundamental technique used to evaluate the flexural strength, stiffness, and durability of materials and structural elements. The process involves applying a load to a beam-shaped specimen until it deforms or fractures, providing critical data about how materials behave under bending stresses.

Key aspects of bending beam testing include:

- Measuring maximum load before failure
- Determining the modulus of elasticity
- Assessing ductility and toughness
- Evaluating structural integrity

This test is especially crucial in civil engineering, aerospace, automotive, and materials science, where materials are subjected to bending forces in real-world applications.

Types of Bending Tests

There are several types of bending tests, each suited to different materials and research objectives:

- Three-Point Bending Test: The specimen is supported at two points, with a load applied at the

center.

- Four-Point Bending Test: Load is applied at two points, creating a uniform bending moment between the supports.
- Flexural Strength Test: Focuses on the maximum stress a material can withstand in bending.
- Fracture Toughness Test: Evaluates the material's resistance to crack propagation under bending stress.

Relevance of Bending Beam Testing at Louisiana State University

LSU's Commitment to Structural Research

Louisiana State University has a rich history of pioneering research in structural engineering, materials science, and earthquake engineering. The university's laboratories are equipped with state-of-the-art testing facilities, including advanced bending beam test setups that allow students and researchers to simulate real-world stress conditions.

Some areas where LSU applies bending beam testing include:

- Concrete and Cementitious Materials: Assessing flexural strength for infrastructure projects.
- Composite Materials: Understanding how fiber-reinforced composites behave under bending.
- Structural Components: Testing beams, slabs, and other structural elements for safety and durability.

Educational Integration and Student Training

At LSU, bending beam testing is integrated into undergraduate and graduate curricula to give students hands-on experience. Students learn to:

- Prepare specimens according to ASTM standards
- Operate testing machinery safely and accurately
- Analyze load-deflection data
- Interpret failure modes and material behavior

This practical training prepares students for careers in civil engineering, construction, and materials research, ensuring they understand the critical role of bending tests in structural safety.

Applications of Bending Beam Testing at LSU

Research in Civil and Structural Engineering

LSU researchers utilize bending beam tests to develop stronger, more resilient materials and structures. Some specific applications include:

- Evaluating New Concrete Mixes: Improving tensile and flexural strength for bridges and buildings.
- Studying Reinforced Concrete Beams: Analyzing the effects of reinforcement ratios on load-bearing capacity.
- Assessing Sustainable Materials: Testing eco-friendly composites and recycled materials.

Innovations in Materials Science

The university's materials science department leverages bending beam tests to:

- Analyze fiber-reinforced polymer composites
- Develop lightweight yet durable structural components
- Study the effects of environmental factors (moisture, temperature) on material performance

Structural Health Monitoring and Safety

Bending beam testing plays a role in structural health monitoring programs at LSU, where beams and structural elements are tested periodically to predict failure modes and ensure safety in infrastructure.

LSU Facilities and Equipment for Bending Beam Testing

State-of-the-Art Laboratories

Louisiana State University boasts specialized laboratories equipped with:

- Universal Testing Machines (UTMs) capable of applying precise bending loads
- Digital Data Acquisition Systems for real-time monitoring
- Environmental Chambers to simulate temperature and humidity effects

Sample Preparation and Testing Procedures

Key steps in conducting bending beam tests at LSU include:

- Specimen Preparation: Cutting and curing beams according to ASTM or AASHTO standards.
- Calibration: Ensuring machinery accuracy before testing.
- Loading: Applying load gradually to prevent sudden failure.
- Data Collection: Recording load and deflection until failure.
- Analysis: Calculating flexural strength, modulus, and other parameters.

Benefits of Conducting Bending Beam Tests at LSU

- **Academic Excellence:** Provides students with practical, real-world experience that complements theoretical learning.
- **Cutting-Edge Research:** Facilitates innovative research projects that contribute to safer, more durable infrastructure.
- **Industry Collaboration:** Partners with construction firms and government agencies to develop standards and improve materials.
- **Environmental Impact:** Promotes the development of sustainable materials with enhanced bending properties.
- **Community Safety:** Ensures that infrastructure in Louisiana and beyond meets safety standards through rigorous testing.

How to Get Involved with Bending Beam Research at LSU

For Students

Students interested in bending beam testing can:

- Enroll in courses related to structural analysis and materials testing.
- Participate in undergraduate research projects.
- Join student chapters of engineering societies focused on materials and structures.

For Researchers and Professionals

- Collaborate with LSU faculty on joint research projects.
- Access university laboratories for testing and experimentation.
- Attend conferences and workshops held by LSU on structural health and testing techniques.

For Industry Partners

- Partner with LSU for material development and testing.
- Sponsor research projects focused on bending and structural integrity.
- Participate in internships and training programs for students.

Future Directions in Bending Beam Testing at LSU

Emerging Technologies

LSU is exploring innovative testing methods, including:

- Digital Image Correlation (DIC): For detailed strain analysis during bending.
- Smart Materials: Embedding sensors within beams for real-time health monitoring.
- Automation: Developing automated testing rigs for higher throughput and precision.

Research Challenges and Opportunities

- Investigating the behavior of novel composite materials under bending loads.
- Developing predictive models for structural failure.
- Enhancing testing standards to accommodate new materials and structures.

Conclusion

bending beam louisiana state university exemplifies the university's dedication to advancing structural engineering education and research. Through sophisticated testing facilities, expert faculty, and a commitment to innovation, LSU plays a vital role in understanding how materials and structures behave under bending stresses. Whether for academic pursuits, industry applications, or public safety, bending beam testing remains an essential tool in the quest for safer, stronger, and more sustainable infrastructure. As LSU continues to lead in this field, students and researchers alike benefit from its state-of-the-art resources and collaborative environment, ensuring that the future of structural engineering is built on solid, well-tested foundations.

Bending Beam Louisiana State University is a phrase that might initially evoke images of engineering experiments or structural analysis, but it actually resonates deeply within the context of LSU's vibrant campus life and the university's commitment to innovation and resilience. Whether referencing the physical structures on campus, the metaphorical bending and adapting of the university community, or a specific engineering project, this phrase encapsulates the dynamic spirit of Louisiana State University. In this comprehensive review, we will explore various facets related to 'bending beam Louisiana State University,' including its historical significance, engineering achievements, campus infrastructure, student experiences, and the university's broader role in

Louisiana's academic and cultural landscape.

Understanding the Context: The Significance of Bending Beams in Engineering and LSU

What is a Bending Beam?

A bending beam is a fundamental element in structural engineering, used to study how materials deform under various loads. It's a simple yet powerful concept that helps engineers understand stress, strain, and the strength of materials. The term "bending beam" often appears in academic settings, especially in engineering programs at institutions like LSU.

At Louisiana State University, the study of bending beams is integral to the College of Engineering curriculum, emphasizing hands-on learning and real-world applications. The university's engineering labs are equipped with state-of-the-art tools that allow students to experiment with beam bending tests, fostering a deeper understanding of structural integrity, load distribution, and safety considerations.

Features of LSU's Engineering Program Related to Bending Beams:

- Extensive laboratory facilities for structural testing
- Experienced faculty specializing in civil, mechanical, and aerospace engineering
- Collaborative research projects with industry partners
- Opportunities for undergraduate research and internships

Pros:

- Practical, hands-on learning experience
- Preparation for careers in civil, mechanical, and structural engineering
- Contribution to local infrastructure projects

Cons:

- High-cost laboratory equipment
- Requires significant safety protocols

Campus Infrastructure and Structural Engineering at LSU

Historical and Modern Structures

Louisiana State University boasts a rich architectural history, blending historic buildings with modern infrastructure. Many of these structures have undergone reinforcement and renovation to withstand environmental factors like humidity, hurricanes, and seismic activity ? all of which require expert understanding of bending and structural resilience.

The university has invested heavily in ensuring that its buildings meet safety standards, often employing engineering principles that involve beam bending analysis. For example, the Tiger Stadium, one of the most iconic sports venues in the state, incorporates advanced structural engineering methods to ensure stability during large crowds and adverse weather conditions.

Features:

- Use of advanced materials to enhance structural capacity
- Earthquake-resistant design elements
- Regular structural assessments and maintenance

Pros:

- Safe and resilient infrastructure
- Preservation of historical architecture
- Incorporation of innovative engineering solutions

Cons:

- High maintenance costs
- Potential disruptions during renovation projects

Research and Innovation at LSU Related to Structural Engineering

Cutting-Edge Projects and Studies

LSU's engineering research centers are at the forefront of structural engineering innovation, including studies on how beams and other structural elements behave under stress. Researchers often focus on developing new materials, improving existing designs, and understanding how structures can better resist natural disasters.

One notable project involves analyzing the behavior of composite materials in beam construction, aiming to create more durable and lightweight structural components. Such research is vital for Louisiana, which faces frequent hurricanes and flooding.

Features of LSU's Research Initiatives:

- Collaboration with federal agencies like FEMA and NASA
- Development of sustainable and resilient building materials
- Simulation and modeling of structural behaviors under extreme conditions

Pros:

- Contributes to safer building standards
- Enhances LSU's reputation as a research university
- Provides opportunities for student involvement in innovative projects

Cons:

- Research can be resource-intensive
- Long timelines for developing commercial applications

Student Experience and Academic Programs

Engineering Education Focused on Structural Resilience

Students at LSU interested in structural engineering, including the study of bending beams, benefit from a rigorous curriculum that combines theory with practical application. The program emphasizes understanding how structures respond to various forces, preparing students for careers in construction, infrastructure management, and research.

Courses often include:

- Mechanics of Materials
- Structural Analysis
- Civil Engineering Laboratory
- Advanced Materials for Construction

Student Opportunities:

- Participation in research projects
- Internships with local engineering firms
- Competitions like concrete canoe and steel bridge contests

Pros:

- Strong foundational knowledge
- Industry connections that facilitate employment
- Supportive faculty mentorship

Cons:

- Demanding coursework
- Limited availability of specialized courses in niche areas

Community Engagement and Louisiana's Cultural Landscape

LSU's Role in Louisiana's Infrastructure Development

Louisiana State University plays a crucial role in supporting local infrastructure and community development. The engineering faculty often consults on projects involving bridge construction, flood prevention, and disaster resilience—areas where understanding beam behavior and structural integrity is essential.

Furthermore, LSU's outreach programs aim to educate the public about sustainable building practices and disaster preparedness, emphasizing the importance of sound structural engineering principles in everyday life.

Features:

- Public seminars on resilience and safety
- Collaborative projects with government agencies
- Initiatives to promote STEM education among youth

Pros:

- Strengthens community resilience
- Promotes public awareness of engineering importance
- Provides real-world experience for students

Cons:

- Limited outreach funding
- Challenges in engaging diverse communities

Conclusion: The Broader Impact of Bending Beams and Structural Engineering at LSU

Louisiana State University's focus on structural engineering, exemplified through the study and application of bending beams, underscores its commitment to innovation, safety, and community resilience. From their cutting-edge research to the preservation of historic structures and the education of future engineers, LSU integrates fundamental engineering principles with real-world challenges faced by Louisiana and beyond.

The university's facilities, research initiatives, and academic programs collectively foster an environment where students and faculty alike can contribute to safer, more resilient infrastructure. While challenges such as high costs and maintenance exist, the benefits—ranging from enhanced safety to technological advancement—far outweigh the drawbacks.

In essence, 'bending beam Louisiana State University' encapsulates a narrative of adaptation, resilience, and forward-thinking—values that are deeply embedded in LSU's mission and identity. Whether in the classroom, laboratory, or community outreach, LSU continues to bend and adapt like a well-engineered beam under stress, emerging stronger and more capable of supporting Louisiana's vibrant future.

Question What is the significance of the 'Bending Beam' project at Louisiana State University? The 'Bending Beam' project at LSU is a research initiative focused on understanding material behavior and structural resilience, often used to study the bending strength and flexibility of various materials in civil engineering. How is the 'Bending Beam' experiment utilized in LSU's engineering curriculum? LSU incorporates the 'Bending Beam' experiment into its civil and mechanical engineering courses to provide students with hands-on experience in material testing, structural analysis, and understanding stress-strain relationships. Are there recent advancements or innovations related to the 'Bending Beam' research at LSU? Yes, recent advancements include the development of more precise measurement techniques, integration of digital sensors for real-time data, and exploring new composite materials to improve structural performance. Can the 'Bending Beam' test be used to assess the durability of construction materials at LSU? Absolutely, the

'Bending Beam' test is a standard method for evaluating the flexibility and strength of construction materials, helping LSU researchers assess durability and suitability for various structural applications. Is the 'Bending Beam' project at LSU part of any collaborative research or industry partnerships? Yes, LSU's 'Bending Beam' research often collaborates with industry partners and government agencies to develop innovative materials and improve construction standards. How does LSU ensure safety and accuracy in conducting 'Bending Beam' experiments? LSU follows strict safety protocols, uses calibrated equipment, and trains students and staff thoroughly to ensure accurate results and safe laboratory practices during 'Bending Beam' experiments. What are the future research directions for the 'Bending Beam' studies at Louisiana State University? Future research aims to explore new materials such as composites, enhance testing techniques with automation, and apply findings to real-world infrastructure projects to improve resilience and sustainability.

Related keywords: bending beam experiment, structural engineering, LSU engineering lab, load testing, beam deflection, material properties, civil engineering research, laboratory experiments, stress analysis, university engineering programs

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.

QuestionAnswer 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

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