

MATH 221 UNIVERSITY OF PHOENIX DISCRETE MATH Study Guide

math 221 university of phoenix discrete math is a foundational course designed to introduce students to the fundamental concepts of discrete mathematics, which are essential for computer science, information technology, and related fields. As part of the University of Phoenix's curriculum, this course aims to develop logical reasoning, problem-solving skills, and a solid understanding of mathematical structures that are discrete rather than continuous. Whether you're a student enrolled in this course or someone exploring the curriculum, understanding the core topics and how they apply to real-world scenarios can greatly enhance your learning experience.

Overview of Math 221 at the University of Phoenix

Math 221 at the University of Phoenix covers a broad spectrum of topics in discrete mathematics, providing students with the tools necessary to analyze and solve problems involving finite or countable sets. The course emphasizes practical applications, critical thinking, and analytical skills, which are vital for careers in technology, engineering, and computer science.

The course typically includes the following key areas:

- Set theory and logic
- Functions and relations
- Combinatorics
- Graph theory
- Algorithms and complexity
- Number theory

Understanding these areas not only prepares students for advanced coursework but also enhances their ability to approach complex problems systematically.

Core Topics in Math 221 Discrete Math

Set Theory and Logic

Set theory forms the foundation of discrete mathematics, providing a language to describe and analyze collections of objects. Students learn about:

- Sets and their notation
- Subsets and power sets
- Operations like union, intersection, and difference
- Cartesian products

Logic complements set theory by teaching students to construct valid arguments and proofs. Topics include:

- Propositions and logical connectives
- Truth tables
- Logical equivalences
- Predicates and quantifiers

These concepts are crucial for understanding how mathematical statements are formulated and validated.

Functions and Relations

Functions and relations establish relationships between sets and are vital in computer science. Key concepts include:

- Definitions of functions, injections, surjections, and bijections
- Domain, codomain, and range
- Composition of functions
- Relations, properties, and their representation (e.g., matrices, graphs)

Mastery of functions and relations aids in understanding data mappings, database relationships, and mappings in algorithms.

Combinatorics

Combinatorics deals with counting and arrangement problems, which are essential in probability and algorithm analysis. Topics include:

- Permutations and combinations
- The Fundamental Counting Principle
- Binomial Theorem
- Pigeonhole principle

Applying combinatorial methods helps in optimizing algorithms and solving probability-related problems.

Graph Theory

Graph theory examines structures made up of nodes (vertices) connected by edges and has applications in network analysis, scheduling, and routing. Important concepts include:

- Types of graphs (directed, undirected, weighted)
- Traversal algorithms (BFS, DFS)
- Graph coloring
- Eulerian and Hamiltonian paths
- Planar graphs

Understanding graphs enables students to model and analyze complex networks efficiently.

Algorithms and Complexity

This area introduces students to designing and analyzing algorithms, focusing on efficiency and computational complexity. Topics include:

- Basic algorithm design techniques (divide and conquer, greedy algorithms)
- Big O notation
- Sorting and searching algorithms
- Recursion and iterative processes

Knowledge of algorithms and complexity is critical for software development and optimization.

Number Theory

Number theory explores properties of integers and their applications in cryptography and coding theory. Key topics include:

- Divisibility and prime numbers
- Greatest common divisor (GCD) and least common multiple (LCM)
- Modular arithmetic
- Fermat's Little Theorem and Euler's Theorem
- Applications in cryptography

These concepts underpin many security algorithms used in digital communication.

How to Succeed in Math 221 Discrete Math at University of Phoenix

Develop a Strong Foundation in Mathematical Logic

Understanding logical reasoning and proof techniques is vital. Focus on:

- Practicing truth tables
- Learning proof methods (direct, contradiction, induction)
- Analyzing logical statements carefully

This foundation helps in mastering complex topics and completing assignments effectively.

Engage with Course Materials Regularly

Consistent study and review of lectures, textbooks, and online resources are essential. Tips include:

- Attending all classes and participating actively
- Reviewing notes after each session
- Working through textbook exercises

Regular engagement ensures better retention and understanding.

Utilize Online Resources and Study Groups

Supplement your learning with:

- Online tutorials and videos on discrete math topics
- Forming or joining study groups for collaborative learning
- Participating in discussion forums offered by the University of Phoenix

Collaborative learning often clarifies difficult concepts and enhances problem-solving skills.

Practice Problem-Solving Techniques

Discrete math is best learned through practice. Strategies include:

- Solving a variety of problems to understand different applications
- Developing step-by-step solution methods
- Reviewing solutions to understand mistakes and improve

Consistent practice builds confidence and proficiency.

Seek Help When Needed

If concepts are unclear, don't hesitate to:

- Reach out to instructors or tutors
- Use university resources such as academic support centers
- Utilize online forums or communities focused on discrete mathematics

Early intervention can prevent misunderstandings from compounding.

Importance of Math 221 Discrete Math in Your Career

Discrete math skills are highly valued in various tech-driven industries. They form the backbone of:

- Computer programming and software development
- Data structures and algorithms
- Network design and analysis
- Cryptography and cybersecurity
- Data science and machine learning

Completing Math 221 at the University of Phoenix equips students with analytical tools that are directly applicable to solving real-world problems in technology and beyond.

Conclusion

Math 221 at the University of Phoenix offers a comprehensive introduction to discrete mathematics, laying the groundwork for advanced studies and professional applications in technology fields. By mastering key topics such as set theory, logic, combinatorics, graph theory, algorithms, and number theory, students develop critical thinking, problem-solving skills, and a strong mathematical foundation. Success in this course requires consistent practice, active engagement with course materials, and leveraging available resources. Embracing these strategies can lead to a rewarding learning experience and open doors to exciting career opportunities in the tech industry.

Whether you're aiming to excel academically or seeking to strengthen your technical skill set, understanding the core principles of discrete math through Math 221 at the University of Phoenix is a vital step toward achieving your goals.

Math 221 University of Phoenix Discrete Math: An In-Depth Analysis of Course Content, Structure, and Pedagogical Approach

Introduction

In the realm of higher education, particularly within the fields of computer science, information technology, and mathematics, discrete mathematics stands as an essential foundational course. The University of Phoenix offers its version of this critical subject through Math 221 Discrete Math, a course designed to equip students with essential logical reasoning skills, problem-solving techniques, and mathematical rigor necessary for advanced study and professional practice. This article provides a comprehensive examination of Math 221 at the University of Phoenix, analyzing its curriculum structure, pedagogical strategies, learning outcomes, and its role within the broader academic landscape.

Overview of Math 221 at the University of Phoenix

Course Objectives and Goals

Math 221 aims to introduce students to fundamental concepts of discrete mathematics, emphasizing their applications in computer science, software development, and related disciplines. The primary objectives include:

- Developing proficiency in logical reasoning and proof techniques.
- Understanding set theory, relations, and functions.
- Exploring combinatorics and probability.
- Studying graph theory and its applications.
- Applying discrete structures to real-world problems and computational models.

These objectives are designed to foster analytical thinking, support algorithm development, and cultivate problem-solving skills that are vital in technical fields.

Course Structure and Delivery

The course is typically structured into weekly modules, each focusing on a specific topic within discrete mathematics. The University of Phoenix leverages its online learning environment, integrating multimedia lectures, interactive quizzes, discussion boards, and assignments. This

flexible approach caters to non-traditional students who often juggle education with work and personal commitments.

The course components generally include:

- Lectures and Readings: Video-based lectures complemented by textbook chapters.
- Assignments: Problem sets designed to reinforce theoretical concepts and practical applications.
- Quizzes and Exams: Formative assessments to gauge understanding.
- Discussion Forums: Opportunities for peer interaction, debate, and instructor feedback.
- Capstone Projects: Applied tasks that synthesize learned concepts into comprehensive solutions.

Core Topics Covered in Math 221

- Foundations of Discrete Mathematics

This initial segment establishes the mathematical language and tools necessary for subsequent topics.

- Logic and Propositional Calculus: Understanding logical connectives, truth tables, logical equivalences, and implications.
- Predicate Logic: Quantifiers, predicates, and their role in formal reasoning.
- Mathematical Proofs: Methods such as direct proof, proof by contradiction, contrapositive, and mathematical induction.

- Set Theory and Functions

Set theory forms the basis for many concepts in discrete mathematics.

- Sets and Operations: Union, intersection, difference, and Cartesian products.
- Functions and Relations: Definitions, types, properties, and their applications.
- Equivalence Relations and Partitions: Grouping elements based on relation properties.

- Counting and Probability

The combinatorial foundation is vital for algorithm analysis and probabilistic reasoning.

- Fundamental Counting Principle: Counting arrangements and selections.
- Permutations and Combinations: Techniques for counting arrangements with and without repetition.
- Probability Theory: Basic probability, conditional probability, and expected value.
- Graph Theory

Graph theory explores structures that model relationships and networks.

- Graphs and Digraphs: Definitions, terminology, and representations.
- Graph Properties: Connectivity, cycles, bipartiteness.
- Graph Algorithms: Shortest path, spanning trees, and network flow.
- Applications: Social networks, routing, scheduling.

- Discrete Structures and Applications

This segment emphasizes applying discrete mathematics principles to solve real-world problems.

- Boolean Algebra: Logic circuits and digital systems.
- Recursion and Recurrence Relations: Algorithm analysis and problem solving.
- Formal Languages and Automata: Foundations of compiler design and language recognition.

Pedagogical Approach and Learning Methodology

Emphasis on Active Learning

The University of Phoenix's approach to teaching Math 221 underscores active learning strategies. These include problem-solving sessions, peer collaboration, and practical applications. Assignments often involve real-world scenarios, such as designing network topologies or analyzing algorithms, to contextualize theoretical concepts.

Technology Integration

The online platform incorporates interactive simulations, virtual whiteboards, and software tools like

graph visualization programs. These technological integrations enhance understanding, especially for complex topics like graph algorithms and combinatorial problems.

Assessment Strategies

Assessment in Math 221 is designed to measure comprehension progressively:

- Formative Quizzes: These provide immediate feedback to guide learning.
- Summative Exams: Testing comprehensive understanding at module completion.
- Project Work: Applying multiple concepts in integrated tasks.
- Participation: Engagement in discussion forums fosters collaborative learning.

Learning Outcomes and Skill Development

Graduates of Math 221 at the University of Phoenix are expected to:

- Demonstrate rigorous logical reasoning and proof skills.
- Model problems mathematically using set theory, relations, and functions.
- Analyze algorithms? efficiency and correctness.
- Apply combinatorial and probabilistic methods to analyze systems.
- Design and interpret graphs for network analysis.

These skills serve as a springboard for advanced coursework in computer science, data science, and engineering disciplines, as well as for professional roles in software development, network design, and cybersecurity.

Challenges and Criticisms

While the course offers a robust curriculum, some students and educators have raised concerns:

- Online Learning Limitations: The lack of in-person interaction can hinder complex discussions and immediate clarification.
- Mathematical Rigor: Some students find the abstract nature of proofs and formal logic challenging without traditional classroom support.
- Resource Accessibility: Dependence on technology and reliable internet can pose barriers for some learners.

To mitigate these issues, the University of Phoenix often provides supplemental resources, tutoring,

and forums for peer support.

The Role of Math 221 in Academic and Professional Development

This course acts as a cornerstone for students pursuing careers in technology and mathematics. Discrete math's emphasis on logical reasoning, problem-solving, and algorithmic thinking aligns directly with industry demands. For instance:

- Computer Science: Foundations for programming languages, algorithms, and data structures.
- Cybersecurity: Understanding cryptography and network security models.
- Data Analysis: Modeling data relationships and probabilistic reasoning.
- Operations Research: Optimization and decision-making processes.

Furthermore, the analytical and proof skills developed are transferable to research, technical writing, and analytical roles across sectors.

Conclusion

Math 221 Discrete Math at the University of Phoenix exemplifies an essential course that bridges theoretical mathematics with practical application in technology-driven fields. Its comprehensive curriculum, combined with a flexible online delivery model, seeks to equip students with critical thinking, problem-solving, and analytical skills. While challenges exist, particularly related to online modality and abstract content, the course remains a vital component of the university's offerings for students aiming to excel in complex, data-driven, and algorithmic domains.

As technology continues to evolve, and the demand for sophisticated computational reasoning grows, courses like Math 221 will remain pivotal in preparing the next generation of innovators, analysts, and problem solvers. The University of Phoenix's commitment to accessible, rigorous, and applied education ensures that students are well-positioned to meet these challenges and contribute meaningfully to their respective fields.

Question What are the key topics covered in Math 221 Discrete Math at the University of Phoenix? Math 221 Discrete Math at the University of Phoenix typically covers topics such as set theory, logic, proofs, algorithms, combinatorics, graph theory, and number theory, providing a foundational understanding of mathematical reasoning and problem-solving. **Answer** How can I effectively prepare for exams in Math 221 Discrete Math at the University of Phoenix? To prepare effectively, review lecture notes and textbook chapters regularly, practice a variety of problems, participate in study groups, and utilize online resources and tutoring services provided by the university to reinforce key concepts. Are there any recommended resources or textbooks for Math 221 Discrete Math at the University of Phoenix? Yes, the course often aligns with standard discrete mathematics

textbooks such as 'Discrete Mathematics and Its Applications' by Kenneth Rosen. Additionally, the university may provide supplemental materials and online resources through its learning platform. What skills are essential for success in Math 221 Discrete Math at the University of Phoenix? Success in this course requires strong logical reasoning, analytical thinking, problem-solving skills, and the ability to understand and construct formal proofs. Consistent practice and active engagement with the course material are also crucial. How does Math 221 Discrete Math at the University of Phoenix prepare students for careers or further studies? This course develops critical thinking, logical reasoning, and problem-solving skills applicable in computer science, engineering, data analysis, and related fields. It also provides a solid foundation for advanced mathematics and theoretical computer science courses.

Related keywords: Discrete mathematics, university of phoenix, math 221, discrete math course, mathematical logic, combinatorics, graph theory, set theory, proofs, university coursework

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 graduation list 2013, Kisii University graduation requirements 2013, Kisii University 2013 graduation results

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