

Second year computer engineering syllabus shivaji university Academic PDF

Second year computer engineering syllabus Shivaji University is a comprehensive curriculum designed to equip students with advanced knowledge and practical skills in computer engineering. As students progress into their second year, the syllabus emphasizes core technical subjects, practical applications, and emerging technologies to prepare them for industry challenges and higher studies. Shivaji University offers a well-structured syllabus that balances theoretical concepts with hands-on training, ensuring students develop a robust foundation in computer engineering principles.

Overview of the Second Year Computer Engineering Syllabus at Shivaji University

The second-year curriculum at Shivaji University builds upon the foundational topics covered in the first year. It aims to deepen students' understanding of hardware, software, algorithms, and system design. The syllabus is periodically updated to keep pace with technological advancements, ensuring students are industry-ready.

Key features of the syllabus include:

- Focus on core computer engineering subjects
- Integration of practical laboratory work
- Exposure to emerging areas like data structures, digital logic, and computer networks
- Emphasis on problem-solving and analytical skills

Main Subjects in the Second Year Computer Engineering Syllabus

The second-year syllabus is divided into various technical subjects, each targeting specific aspects of computer engineering. These subjects are designed to develop both theoretical knowledge and practical competencies.

1. Digital Logic Design

Digital Logic Design forms the backbone of computer hardware understanding. This subject covers:

- Number systems and codes
- Boolean algebra and logic gates
- Combinational and sequential circuit design
- Flip-flops, counters, and registers
- Design of simple digital systems

Learning Outcomes: Students will be able to design and analyze digital circuits, essential for hardware development and system architecture.

2. Data Structures and Algorithms

This subject emphasizes efficient data management and problem-solving techniques, including:

- Arrays, linked lists, stacks, queues
- Trees, graphs, hash tables
- Sorting and searching algorithms
- Algorithm complexity and optimization
- Applications in real-world problems

Learning Outcomes: Students can implement fundamental data structures and algorithms, laying the groundwork for software development and competitive programming.

3. Digital Signal Processing

This course introduces concepts related to processing digital signals, crucial in multimedia and communication systems:

- Discrete-time signals and systems
- Transform techniques (Fourier, Z-Transform)
- Filters and their design
- Applications in audio, image, and video processing

Learning Outcomes: Ability to analyze and process digital signals effectively.

4. Computer Architecture and Organization

This subject explores the internal working of computers, including:

- CPU architecture and instruction sets
- Memory hierarchy and storage systems
- Input/output organization
- Assembly language programming

Learning Outcomes: Students will understand how hardware components work together to execute instructions.

5. Operating Systems

This course covers fundamental OS concepts such as:

- Process management and scheduling
- Memory management techniques
- File systems and I/O handling
- Concurrency and synchronization
- Resource allocation and deadlock handling

Learning Outcomes: Ability to understand, analyze, and manage operating system functionalities.

6. Software Engineering

Focusing on the software development lifecycle, this subject includes:

- Software requirement analysis
- Design and modeling techniques
- Testing and maintenance
- Project management and documentation

Learning Outcomes: Students will develop skills to plan, design, and manage software projects professionally.

7. Database Management Systems

This course introduces database concepts such as:

- Relational database models
- SQL queries and normalization

- Transaction management
- Database security and backup strategies

Learning Outcomes: Ability to design, implement, and manage databases effectively.

Laboratory and Practical Components

Practical training is an integral part of Shivaji University's second-year syllabus. Labs complement theoretical subjects and provide hands-on experience.

Key Laboratory Subjects Include:

- Digital Logic Design Laboratory
- Data Structures and Algorithms Laboratory
- Digital Signal Processing Laboratory
- Computer Architecture Laboratory
- Operating Systems Laboratory
- Database Management Systems Laboratory

Practical Skills Developed:

- Circuit design and simulation
- Programming in C, C++, and other languages
- Signal processing implementations
- Operating system interfacing
- Database query design and management

Emerging Topics and Electives

In addition to core subjects, Shivaji University offers elective courses and emerging topics to foster innovation and specialization.

Elective Subjects May Include:

- Artificial Intelligence and Machine Learning
- Cyber Security
- Internet of Things (IoT)
- Cloud Computing

- Blockchain Technology

Benefit: These electives enable students to explore niche areas, increasing their employability and research prospects.

Assessment and Examinations

Assessment methods at Shivaji University are designed to evaluate both theoretical understanding and practical skills.

Evaluation Components:

- Mid-term exams
- End-term examinations
- Laboratory tests and viva voce
- Assignments and project work
- Internships and industrial visits

Purpose: To ensure comprehensive evaluation and readiness for industry or higher studies.

Conclusion

The second year computer engineering syllabus Shivaji University offers a balanced mix of foundational and advanced topics that prepare students for the rapidly evolving tech landscape. By focusing on core subjects like digital logic, data structures, computer architecture, and operating systems, along with practical laboratory work, the curriculum aims to produce competent engineers capable of tackling real-world problems. Furthermore, electives in emerging areas allow students to specialize and stay ahead in the competitive industry.

Students aspiring to excel in computer engineering should leverage the structured syllabus, practical sessions, and elective opportunities to build a strong technical foundation. With continuous updates aligned with technological trends, Shivaji University ensures that its graduates are well-equipped to contribute effectively to the fields of software development, hardware design, research, and innovation.

For detailed syllabus and updates, students are encouraged to visit the official Shivaji University website or contact their department offices.

Second Year Computer Engineering Syllabus Shivaji University: An In-Depth Overview

The second year of a computer engineering program at Shivaji University marks a crucial phase in shaping a student's technical expertise and foundational knowledge. This academic year builds upon the fundamentals laid in the first year, introducing more specialized topics, advanced programming concepts, and core engineering principles. In this comprehensive review, we will explore the detailed syllabus, course structure, key subjects, practical components, and evaluation methods that define the second-year curriculum for computer engineering students at Shivaji University.

Overview of the Second Year Curriculum

The second-year syllabus at Shivaji University aims to deepen students' understanding of core computer engineering topics, including hardware fundamentals, programming, algorithms, data structures, and basic electrical engineering concepts. The curriculum is designed with a balanced mix of theoretical knowledge and practical skills, preparing students for advanced courses and industry challenges.

Key objectives of the second-year syllabus:

- Strengthen foundational knowledge in digital logic, computer architecture, and programming.
- Develop proficiency in data structures, algorithms, and problem-solving.
- Introduce students to electrical engineering principles relevant to computer hardware.
- Encourage practical application through laboratory exercises and project work.
- Foster analytical thinking and technical communication skills.

Core Subjects in the Second Year Syllabus

The second-year curriculum encompasses a variety of subjects categorized into core computer engineering topics and related engineering disciplines. Below is a detailed breakdown:

- Digital Logic Design

Scope and Importance:

Digital logic forms the foundation of all digital systems, including computers, embedded systems, and communication devices.

Topics Covered:

- Boolean algebra and logic gates (AND, OR, NOT, XOR, NAND, NOR)
- Simplification of Boolean functions (K-map, Boolean laws)
- Combinational circuit design (adders, subtractors, multiplexers, encoders)
- Sequential circuits (flip-flops, counters, registers)
- Design and analysis of digital systems

Practical Components:

- Circuit simulation using software tools (e.g., Logisim, Multisim)
 - Hardware implementation using programmable logic devices (PLDs)
 - Laboratory exercises on designing combinational and sequential circuits
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- Computer Organization and Architecture

Scope and Importance:

Understanding how computers are organized internally helps students appreciate hardware-software interaction.

Topics Covered:

- Basic computer architecture concepts (ALU, registers, buses)
- Instruction set architecture (ISA)
- Memory hierarchy (cache, RAM, ROM)
- Input/output organization
- Control unit design (hardwired and microprogrammed control)
- Assembly language programming fundamentals

Practical Components:

- Assembly language exercises
 - Simulations of instruction cycles
 - Experiments with simple machine-level programming
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- Programming in C

Scope and Importance:

C programming remains the backbone of systems programming and hardware interfacing.

Topics Covered:

- Syntax and semantics of C language
- Data types, operators, and expressions
- Control structures (loops, conditional statements)
- Functions, recursion
- Pointers and memory management
- Data structures (arrays, strings, structures)
- File handling and input-output operations

Practical Components:

- Writing programs for sorting, searching, and basic algorithms
- Developing small projects and debugging exercises
- Laboratory assignments on data structures and algorithms

- Data Structures and Algorithms

Scope and Importance:

Efficient data management and problem-solving are central to computer engineering.

Topics Covered:

- Linear data structures (linked lists, stacks, queues)
- Non-linear data structures (trees, graphs)
- Hashing and hashing algorithms
- Sorting algorithms (bubble, insertion, quicksort, mergesort)
- Searching algorithms (binary search, linear search)
- Algorithm design techniques (divide and conquer, greedy, dynamic programming)

Practical Components:

- Implementation of data structures in C
- Algorithm analysis and complexity evaluation
- Solving programming problems on online judges

- Electrical Engineering Fundamentals

Scope and Importance:

Basic electrical concepts are essential for understanding hardware components and embedded systems.

Topics Covered:

- Electrical circuits and laws (Ohm's Law, Kirchhoff's laws)
- AC/DC fundamentals
- Electronic components (resistors, capacitors, transistors)
- Digital electronic circuits
- Power supplies and regulators
- Introduction to microcontrollers and embedded systems

Practical Components:

- Circuit building and testing
- Using multimeters and oscilloscopes
- Microcontroller interfacing exercises

- Environmental Studies and Ethics

Scope and Importance:

Understanding societal impact, ethics, and environmental considerations in engineering.

Topics Covered:

- Environmental pollution and conservation
- Sustainable development

- Ethical issues in technology and engineering
- Intellectual property rights
- Professional ethics and social responsibilities

Elective and Additional Subjects

Depending on semester-specific offerings, students may also engage with electives like:

- Python Programming
- Web Technologies
- Software Engineering
- Operating Systems
- Database Management Systems

These courses aim to broaden students' skill sets and prepare them for specialized fields.

Laboratory Components and Practical Training

Laboratory work forms an integral part of the second-year curriculum, reinforcing theoretical concepts through hands-on experience.

Key Laboratory Experiments:

- Digital logic circuit design and simulation
- Assembly language programming and simulation
- Data structure implementation
- Microcontroller interfacing projects
- Electrical circuit design and testing

Project Work:

- Mini-projects related to digital systems
- Hardware-software integration assignments
- Group projects fostering teamwork and problem-solving

Workshops and Seminars:

- Industry guest lectures
- Technical workshops on emerging technologies (IoT, embedded systems)
- Software tool training (MATLAB, Proteus, Xilinx ISE)

Evaluation and Assessment Criteria

The assessment scheme at Shivaji University aims to evaluate both theoretical understanding and practical skills.

Components of Evaluation:

- Internal Assessment (20-30%):
 - Quizzes, attendance, class participation
 - Laboratory performance and viva voce
 - Assignments and mini-projects
- End Semester Examination (70-80%):
 - Written exams testing conceptual knowledge and problem-solving
 - Duration typically 3 hours
 - Emphasis on analytical questions, derivations, and programming

Grading System:

- Based on a combination of internal and external assessments
- Use of letter grades or percentage-based scoring

Future Prospects and Advanced Topics

The second-year syllabus sets the stage for more advanced courses in the third and final years, including:

- Operating Systems
- Compiler Design
- Computer Networks
- Software Engineering
- Artificial Intelligence and Machine Learning
- Cybersecurity

Students are encouraged to utilize the foundational knowledge gained to pursue internships, research projects, and industry certifications.

Conclusion

The second-year computer engineering syllabus at Shivaji University offers a comprehensive, balanced approach to developing core technical competencies. It blends theoretical understanding with practical application, ensuring students are well-prepared for higher studies, industry roles, or entrepreneurial ventures. The curriculum's emphasis on digital logic, computer organization, programming, data structures, and electrical fundamentals provides a robust platform for aspiring computer engineers.

Students are advised to actively participate in laboratory work, engage with projects, and stay updated on emerging technologies. With a solid grasp of this syllabus, they will be well-positioned to excel in complex problem-solving and innovative system design, ultimately contributing meaningfully to the rapidly evolving field of computer engineering.

Note: This overview is based on the general second-year syllabus structure at Shivaji University. For the most accurate and current details, students should consult the official university curriculum documents or academic advisors.

QuestionAnswer What are the main subjects covered in the second year computer engineering syllabus at Shivaji University? The second year computer engineering syllabus at Shivaji University typically includes subjects like Data Structures and Algorithms, Digital Electronics, Computer Architecture, Object-Oriented Programming, and Mathematics courses such as Discrete Mathematics and Linear Algebra. Is there any specific project work required in the second year of computer engineering at Shivaji University? Yes, students are often required to undertake minor projects related to their coursework, such as implementing data structures or digital circuits, to gain practical experience and apply theoretical concepts learned during the semester. Where can I find the detailed syllabus for the second year computer engineering program at Shivaji University? The detailed syllabus is available on the official Shivaji University website under the 'Academics' or 'Syllabus' section, or students can obtain it from their department office or academic coordinators. Are there any new subjects or updates in the second year computer engineering syllabus at Shivaji University for the current academic year? Updates to the syllabus are made periodically; students should check the official Shivaji University updates or contact their department for the latest syllabus, which may include new electives or updated course content to stay current with industry trends. How can I prepare effectively for exams based on the second year computer engineering syllabus at Shivaji University? Effective preparation includes understanding the core concepts through textbooks and lecture notes, practicing previous years' question papers, participating in study groups, and consulting faculty for clarification on difficult topics.

Related keywords: computer engineering syllabus, Shivaji University curriculum, second year engineering courses, CE syllabus Shivaji University, software engineering syllabus, digital electronics syllabus, data structures course Shivaji, computer networks syllabus, programming languages syllabus, engineering mathematics Shivaji University

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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