

MICROBIOLOGY ANDHRA UNIVERSITY Ebook

Microbiology Andhra University: Exploring Excellence in Microbiology Education and Research

Microbiology Andhra University stands out as a premier destination for students and researchers interested in the fascinating world of microorganisms. With a rich history of academic excellence and pioneering research, Andhra University's microbiology program offers comprehensive education, cutting-edge laboratories, and opportunities for innovative research. Whether you're aiming to pursue undergraduate studies, postgraduate degrees, or doctoral research, microbiology Andhra University provides an environment that nurtures scientific curiosity and fosters professional growth.

Overview of Microbiology at Andhra University

Andhra University, located in Visakhapatnam, Andhra Pradesh, has built a reputation for its strong science programs, especially in microbiology. The department emphasizes both theoretical knowledge and practical skills, preparing students to excel in academia, industry, and research institutions.

Historical Significance and Academic Excellence

- Established as part of Andhra University's commitment to scientific research and education.
- Recognized for producing influential microbiologists and researchers.
- Accredited by national accreditation bodies, ensuring high-quality education standards.

Research Focus and Specializations

The microbiology department at Andhra University specializes in several key areas, including:

- Medical Microbiology
- Environmental Microbiology
- Industrial Microbiology
- Food Microbiology
- Microbial Biotechnology

Academic Programs in Microbiology at Andhra University

Andhra University offers a range of academic programs tailored to various levels of expertise and

career aspirations in microbiology.

Undergraduate Courses

The Bachelor of Science (B.Sc.) in Microbiology provides students with foundational knowledge of microbial biology, genetics, immunology, and laboratory techniques.

- Duration: 3 years
- Curriculum includes lectures, practicals, and fieldwork
- Focus on developing analytical and research skills

Postgraduate Programs

The Master of Science (M.Sc.) in Microbiology allows students to delve deeper into specialized topics and engage in research projects.

- Duration: 2 years
- Includes coursework, lab work, and dissertation
- Opportunities to work with renowned faculty and research labs

Doctoral Research (Ph.D.)

For those interested in advanced research, Andhra University offers Ph.D. programs in microbiology, emphasizing original research and publication.

- Structured research projects under faculty supervision
- Participation in national and international conferences
- Opportunities for collaborative projects with industry and research institutes

State-of-the-Art Facilities and Laboratories

A significant advantage of microbiology Andhra University is its well-equipped laboratories and research facilities, designed to foster innovation and hands-on learning.

Advanced Laboratory Equipment

- Bioreactors and fermentation tanks for industrial microbiology

- Electron microscopes for microbial visualization
- PCR and DNA sequencing facilities for genetic studies
- Flow cytometry and immunology labs for cellular analysis

Research Centers and Collaborations

The university collaborates with government agencies, biotech firms, and international research centers, providing students with exposure to real-world applications and cutting-edge research projects.

- Microbial Biotechnology Research Centre
- Collaborative projects with the Indian Council of Medical Research (ICMR)
- Partnerships with industry leaders for applied microbiology research

Research and Innovation in Microbiology Andhra University

Research is a cornerstone of Andhra University's microbiology department, with faculty and students actively contributing to advancements in science and technology.

Recent Research Highlights

- Development of novel antibiotics from microbial sources
- Bioremediation techniques for environmental pollution control
- Probiotics and functional foods for health benefits
- Genomic analysis of pathogenic bacteria

Research Funding and Grants

The department regularly secures funding from national agencies such as the Department of Science and Technology (DST), Department of Biotechnology (DBT), and other research bodies, enabling high-quality research projects.

Publication and Conferences

- Faculty and students publish research in reputed international journals
- Participation in national and international conferences enhances visibility and collaboration
- Organizes annual seminars and symposiums to showcase research breakthroughs

Career Opportunities for Microbiology Graduates

Graduates from Andhra University's microbiology programs are well-positioned for diverse career paths across academia, industry, healthcare, and government sectors.

Academic and Research Careers

- Teaching positions in universities and colleges
- Research scientist roles in public and private research institutions
- Postdoctoral research opportunities globally

Industry and Commercial Applications

- Biotechnology firms focusing on microbial products
- Pharmaceutical companies developing antibiotics, vaccines, and diagnostics
- Food industry for microbial fermentation and safety testing
- Environmental agencies working on pollution control and bioremediation

Government and Public Health Sectors

- Roles in health departments and research organizations like ICMR
- Regulatory agencies overseeing microbial safety and standards
- Public health microbiology and epidemiology

Why Choose Microbiology at Andhra University?

Students selecting microbiology Andhra University benefit from a combination of factors that make it a top choice.

Experienced Faculty

Faculty members have extensive research experience and are actively involved in groundbreaking studies, providing mentorship and guidance to students.

Research Opportunities and Funding

Access to funded projects and collaborations enables students to participate in meaningful research that can lead to publications, patents, and industry innovations.

Student-Centric Learning Environment

- Modern laboratories and research facilities
- Industry internships and fieldwork
- Participation in seminars, workshops, and conferences

Strategic Location

Visakhapatnam's thriving biotech industry and proximity to research hubs provide additional opportunities for internships, placements, and collaborative projects.

Conclusion

Microbiology Andhra University stands as a beacon of scientific excellence, fostering a vibrant academic community dedicated to advancing microbiological sciences. With its comprehensive programs, cutting-edge research facilities, and strong industry connections, the university prepares students to excel in various domains of microbiology. Whether your goal is to contribute to healthcare, environmental sustainability, or biotechnological innovation, Andhra University offers the ideal environment to cultivate your aspirations and make meaningful contributions to the world of microbiology. Choosing microbiology at Andhra University means embarking on a rewarding journey of discovery, research, and professional growth in one of India's most esteemed institutions.

Microbiology Andhra University stands out as a premier program dedicated to fostering expertise in one of the most dynamic and impactful branches of biological sciences. Located in Visakhapatnam, Andhra Pradesh, Andhra University has established a reputation for academic excellence, research innovation, and holistic student development in microbiology. Whether you're a prospective student, researcher, or industry professional, understanding the scope, curriculum, research opportunities, and career prospects associated with microbiology at Andhra University can significantly inform your academic and professional journey.

Introduction to Microbiology at Andhra University

Microbiology is the scientific study of microorganisms—bacteria, viruses, fungi, protozoa, and algae—that play critical roles in health, industry, agriculture, and the environment. Andhra University's microbiology program combines theoretical knowledge with practical skills, preparing students to address global challenges like infectious diseases, antibiotic resistance, food safety, and biotechnological innovations.

The university's Department of Microbiology emphasizes cutting-edge research, interdisciplinary collaboration, and industry readiness, making it an attractive choice for students aiming to contribute

meaningfully to science and society.

Overview of the Microbiology Program at Andhra University

Academic Structure

The microbiology program at Andhra University typically spans undergraduate, postgraduate, and doctoral levels:

- Bachelor of Science (B.Sc.) in Microbiology: Provides foundational knowledge in microbiology principles, laboratory techniques, and basic research methodologies.
- Master of Science (M.Sc.) in Microbiology: Focuses on advanced topics such as microbial genetics, immunology, pathogenic microbiology, and environmental microbiology.
- Ph.D. in Microbiology: Offers opportunities for in-depth research, thesis work, and contributions to scientific knowledge.

Curriculum Highlights

The curriculum is designed to blend theoretical understanding with practical applications. Core topics include:

- Microbial taxonomy and classification
- Microbial physiology and biochemistry
- Microbial genetics and molecular biology
- Immunology and vaccine development
- Pathogenic microbiology and infectious diseases
- Environmental microbiology and bioremediation
- Industrial microbiology and fermentation technology
- Food microbiology and safety

Laboratory sessions are integral, focusing on techniques such as aseptic methods, microscopy, culturing, molecular diagnostics, and bioinformatics.

Research and Innovation at Andhra University

State-of-the-Art Facilities

The university is equipped with modern laboratories, research centers, and collaborative hubs that facilitate innovative research in microbiology. Facilities include:

- Biosafety level laboratories for pathogenic microbiology
- Molecular biology labs for DNA/RNA analysis
- Environmental microbiology labs for pollution studies
- Microbial culture facilities
- Bioreactors for fermentation and industrial applications

Key Research Areas

Research at Andhra University spans multiple domains, including:

- Antibiotic resistance mechanisms
- Microbial genomics and proteomics
- Vaccine development and immunotherapy
- Microbial role in climate change and biogeochemical cycles
- Bioremediation of contaminated sites
- Industrial applications of microbes in pharmaceuticals, agriculture, and food production

Collaborations and Funding

The department collaborates with national and international institutes, pharmaceutical companies, and environmental agencies. Funding is often secured through government grants, industry partnerships, and research councils, fostering an environment of innovation and real-world impact.

Career Opportunities and Industry Linkages

Graduates from the microbiology program at Andhra University are well-positioned for diverse career paths:

Academic and Research Fields

- Teaching positions in universities and colleges
- Research scientist roles in government or private research labs
- Ph.D. research and postdoctoral opportunities

Industry Sectors

- Pharmaceuticals and biotechnology companies
- Food and beverage industry (quality control, R&D)

- Environmental agencies and pollution control boards
- Agricultural biotech firms
- Diagnostic laboratories and healthcare organizations

Public Sector and Government Opportunities

- Roles in health departments and disease control programs
- Jobs in agencies like the Indian Council of Medical Research (ICMR)
- Positions in environmental monitoring and policy formulation

Entrepreneurship and Innovation

- Start-ups in biotech, health tech, or eco-friendly products
- Commercialization of microbial products and technologies

Why Choose Microbiology at Andhra University?

Academic Excellence

- Experienced faculty members with significant research credentials
- Curriculum aligned with national and international standards
- Opportunities for internships, industry visits, and practical training

Research Opportunities

- Participation in ongoing research projects
- Access to funding and mentorship for thesis work
- Participation in conferences, seminars, and workshops

Industry Connect

- Collaborations with biotech firms, hospitals, and environmental organizations
- Placement assistance through campus recruitment drives
- Entrepreneurial support for students interested in startups

Holistic Development

- Workshops on scientific communication and soft skills
- Opportunities for international exchange programs
- Student clubs and societies promoting scientific discussion and outreach

Admission Process and Eligibility

Admission to microbiology programs is primarily based on academic merit and entrance examinations, depending on the level of study. Typical eligibility criteria include:

- Undergraduate (B.Sc.): Completion of 10+2 with science stream (Physics, Chemistry, Biology)
- Postgraduate (M.Sc.): Graduation in microbiology or related biosciences
- Ph.D.: Master's degree in microbiology or equivalent with research aptitude

Applicants should check the university's official admission notifications for detailed procedures, entrance test requirements, and application deadlines.

Future Prospects and Trends in Microbiology

Microbiology is a rapidly evolving field driven by technological advances such as next-generation sequencing, bioinformatics, and synthetic biology. Future trends include:

- Development of personalized vaccines and therapies
- Use of microbes in sustainable agriculture
- Microbial solutions for environmental cleanup
- Integration of microbiology with data science and AI
- Growing importance in global health and pandemic preparedness

Students and researchers at Andhra University are well-placed to contribute to these emerging areas, leveraging the university's infrastructure and academic network.

Conclusion

Microbiology Andhra University offers a comprehensive, research-oriented, and industry-relevant education for students passionate about understanding the microbial world. With its strong academic foundation, cutting-edge facilities, and vibrant research community, the university serves as an ideal platform for those aspiring to make a difference in health, industry, and environmental sustainability.

Embarking on a microbiology journey at Andhra University can open doors to rewarding careers, groundbreaking research, and contributions to solving some of the world's most pressing

challenges. Aspiring students should consider this esteemed institution for a future rooted in scientific discovery and societal impact.

Note: For the latest updates on courses, admission procedures, and research initiatives, always refer to Andhra University's official website or contact their departmental offices directly.

QuestionAnswer What postgraduate programs are offered in microbiology at Andhra University? Andhra University offers M.Sc. and Ph.D. programs in Microbiology, providing advanced research and practical training in the field. How can I apply for microbiology admission at Andhra University? Applicants can apply online through the Andhra University admission portal, submitting required documents and meeting eligibility criteria specified for microbiology courses. What research facilities are available for microbiology students at Andhra University? The university provides state-of-the-art laboratories, research centers, and collaborations with industry partners to support microbiology research and innovation. Are there any scholarships available for microbiology students at Andhra University? Yes, Andhra University offers various scholarships and financial aid options for meritorious and economically disadvantaged microbiology students. What career opportunities are available after completing microbiology at Andhra University? Graduates can pursue careers in healthcare, research, pharmaceuticals, food safety, environmental monitoring, and academia, among others. Does Andhra University collaborate with industries for microbiology projects? Yes, the university has collaborations with biotech and pharmaceutical industries to facilitate real-world projects and internships for microbiology students. What is the duration of the microbiology postgraduate course at Andhra University? The M.Sc. Microbiology program typically lasts two years, divided into four semesters, including coursework and research components. Are there any ongoing microbiology research projects at Andhra University? Yes, faculty and students are engaged in various research projects focusing on microbial biotechnology, pathogenic microbes, and environmental microbiology. How does Andhra University support microbiology students in internships? The university has tie-ups with research institutes and industries to provide internships, practical training, and fieldwork opportunities for microbiology students. What are the eligibility criteria for admission to microbiology programs at Andhra University? Candidates must have a relevant undergraduate degree with the required minimum marks and meet the specific entrance exam or interview criteria set by the university.

Related keywords: microbiology department, Andhra University, microbiology courses, Andhra University research, microbiology faculty, microbiology lab Andhra University, microbiology syllabus, Andhra University admissions, microbiology postgraduate programs, microbiology conferences Andhra 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.

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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