

KAIMS INTERNATIONAL INSTITUTE MULTAN

BOOKISH

EDITION JULY'2024

A PROJECT BY
**KAIMS LITERATURE &
LINGUISTICS ACE SOCIETY (KLLAS)**

**Today a Reader,
Tomorrow a Leader**

Bringing You The Best Reads

**TO YOU,
BY YOU**

Because You are
important to us



Editor In Chief

MS. RAMSHA ZABTA

HOD ENGLISH



Dear students, the world is changing fast and the conventional education curriculum has to pave way for experiential learning. 21st Century education and learning must surpass the four walls of class room. Therefore, I believe that the core aim of learning should be to foster holistic development of students and it essentially means intellectual, physical, emotional and social development. It gives me an immense pleasure to note that the KAIMS International Institute, Multan is bringing out the monthly departmental magazine. "Learning is a continuous process from the minute we are born, until we die." KAIMS provides a platform for every student to develop his/her learning skills through magazine. As you scan through the pages, it will enlighten you with the important milestones that Institute has achieved this year. Besides, our budding talents have expressed their thoughts, ideas, hopes, feelings, aspirations and convictions in a creative way. This magazine should be a good source of guidance for faculty and coming batches of students in choosing activities of their choice in their future for building their carrier. I congratulate Editor-in-Chief, editorial board and students of the English Department for bringing this edition of Magazine June'2024.

Wish you all the best.

Best Regards,

MAHAR KHIZAR HARAJ

Director KAIMS





DEAR READERS AND CONTRIBUTORS,

I am extremely thrilled to launch this first edition of KAIMS Literary Magazine "BOOKISH". I would like to extend my heartfelt gratitude to all the talented individuals who have contributed to making our college magazine a success. Your dedication, creativity, and hard work have truly shone through in the latest issue. From the thought-provoking articles to the captivating artwork, each piece has added a special touch to our publication.

This is the result of all the hard work, dedication and efforts done by the KLLAS team. Aim of publishing this magazine is to acknowledge the efforts of all the departments currently running in KAIMS. Dedication of HODs and Faculty members along with the cooperation of our brilliant students is depicted through this magazine. Furthermore, the main objective of launching this magazine is to keep our students and surroundings updated regarding the happenings, progress and activities of departments. This could have never been possible without the kind guidance of our Worthy Director KAIMS, Mahar Khizar Haraj as his continuous support is a great motivation for this publication. I am truly humbled to be the crucial part of being the Editor -In-Chief of this amazingly structured magazine.

As we continue on this journey of creativity and exploration, I look forward to seeing our magazine evolve and grow with each new edition. Your contributions are the heart and soul of this publication, and I am grateful for the opportunity to work alongside such talented individuals.

Together, we have created something truly special.

Warm regards,
MS. RAMSHA ZABTA
Editor-in-Chief Bookish
(Head Of English Department/President KLLAS)

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WELCOME TO THE DEPARTMENT OF PHARMACY IN KAIMS

INTRODUCTION

KAIMS International Institute Multan established Faculty Of Pharmacy in 2021 and started Pharm-D program as per guidelines of Pharmacy Council of Pakistan. The Faculty has a proud record of education and research in pharmacy. Our courses combine work experience and creative teaching methods to expose students to current practices and challenges they'll face as highly qualified pharmacists and pharmaceutical scientists.



HOD'S MESSAGE

There is an ever increasing need for high quality education institutions for producing highly trained professionals in the field of Pharmacy. We have progressively established itself as a reputed Institute in Multan imparting education in Pharmaceutical Sciences.

We at Kaims international are committed to providing modern infrastructure for conveying high quality education supported by highly qualified, dedicated teaching faculty so as to produce Skillful and trained Pharmacists.

BEST REGARDS,

Dr. Rabia Razzaq

Head Of Pharmacy Department
PhD in Pharmaceutics



LIBRARY FACILITY

A collection of around two thousand books is available in the faculty library. An adequate collection of text books, reference books, and research journals are available in the library of the faculty covering various disciplines of pharmacy, namely Pharmaceutics, Pharmacology, Pharmaceutical Chemistry, Pharmacy practice, and Pharmacognosy.



LABORATORY FACILITY

The faculty of pharmacy, KAIMS International Institute Multan was established in 2021 and started Pharm-D program as per guidelines of Pharmacy Council of Pakistan.

LABORATORIES



PHARMACEUTICS



BASIC MEDICAL SCIENCES



PHARMACOGNOSY & MICROBIOLOGY



PHARMACEUTICAL CHEMISTRY



PHARMACEUTICAL ANALYSIS



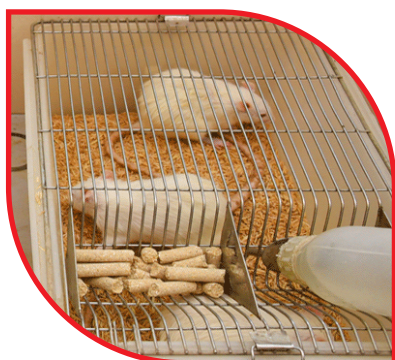
COMPUTER LAB



RESEARCH LAB

ANIMAL HOUSE

An animal house facility has been established in compliance with guidelines proposed by international organizations. These animals are meant for the experimental purpose and to be performed by Pharm-D students.



WELCOME TO THE DEPARTMENT OF PHYSICAL THERAPY AT KAIMS

Physical therapy is a healthcare discipline focused on evaluating, diagnosing, and treating disorders of the musculoskeletal system. It involves the use of various physical techniques and modalities to enhance movement, reduce pain, restore function, and prevent disability. Physical therapists (PTs) work with patients who have suffered injuries, surgeries, or illnesses affecting their physical capabilities.

Key components of physical therapy include:

Assessment and Diagnosis: PTs assess patients' physical condition through physical exams, medical history, and diagnostic tests to determine the cause of pain or functional impairment.



Treatment Planning: Based on the assessment, PTs create personalized treatment plans that address specific patient needs and goals.



Therapeutic Exercises: These exercises aim to improve strength, flexibility, balance, and coordination.



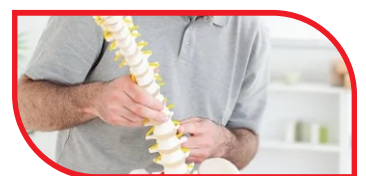
Manual Therapy: Techniques like mobilization, and manipulation to reduce pain and improve mobility.



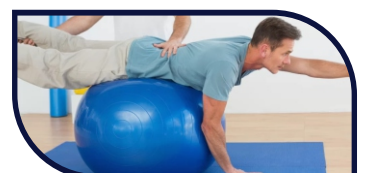
Modalities: Use of heat, cold, ultrasound, electrical stimulation, and other modalities to alleviate pain and promote healing.



Patient Education: Teaching patients about their conditions, treatment plans, and ways to prevent further injury.



Functional Training: Helping patients relearn movements and tasks necessary for daily living and work activities.



Physical therapy is used to treat a wide range of conditions, including sports injuries, arthritis, stroke, spinal cord injuries, and post-operative recovery, among others. The goal is to help patients achieve the highest possible level of function and independence.

KAIMS LABS OF PHYSIOTHERAPY DEPARTMENT



Anatomy lab: Anatomy lab is a specialized educational facility where students and professionals study the structure of the human body. This lab is crucial for medical science students, providing hands-on experience with human anatomy that is essential for understanding and practicing healthcare. Key features and components of our anatomy lab include:

- **Bones** • **Skeleton** • **3D models**
- **Muscle model** • **Organ model**

Physiology lab: Physiology lab is a specialized facility where students and researchers study the functions and mechanisms of the human body. It focuses on understanding how organs and systems work, how they interact, and how they respond to various stimuli. Physiology labs are essential for medical and health science students, providing practical experience and insights into bodily functions. Key features and components of our physiology lab include:

• **Experimental Equipment**

Physiological Recording Devices: Instruments like electrocardiographs (ECG), spirometers, and blood pressure monitors to measure and record physiological parameters. **Biochemical Analyzers:** Devices to analyze blood, urine, and other bodily fluids for various chemical and biological markers.

Kinesiology lab: KAIMS kinesiology lab is a specialized facility where the study of human movement, biomechanics, and physical activity takes place. It is essential for students and researchers in fields such as kinesiology, physical therapy, sports science, and occupational therapy. Our lab is equipped with a variety of tools and technologies to analyze and improve human movement, performance, and rehabilitation.

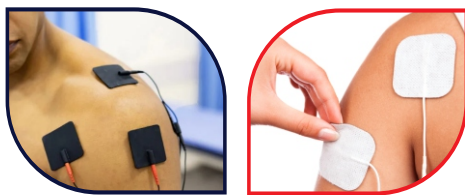
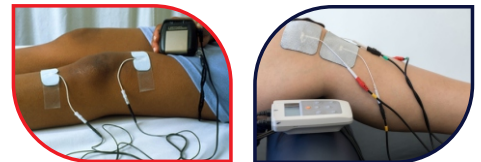


Electrotherapy lab: KAIMS electrotherapy lab is a specialized facility within physical therapy, sports medicine, or rehabilitation clinics where various forms of electrical stimulation are used to treat patients. Our electrotherapy lab is equipped with devices and tools designed to manage pain, enhance muscle function, promote tissue healing, and improve circulation. Key features and components of our electrotherapy lab include:

ELECTROTHERAPY DEVICES:

- **Transcutaneous Electrical Nerve Stimulation (TENS):**

Portable devices that deliver electrical impulses through the skin to relieve pain.



- **Electrical Muscle Stimulation (EMS):** Devices that send electrical impulses to stimulate muscle contractions, often used for muscle strengthening and rehabilitation.

- **Interferential Current (IFC) Therapy:** Machines that use medium-frequency electrical currents to relieve pain and reduce inflammation.



- **Ultrasound Therapy:** Devices that use high-frequency sound waves to promote tissue healing and reduce pain.

- **Shortwave Diathermy:** Equipment that uses high-frequency electromagnetic waves to generate deep heat within tissues, aiding in pain relief and tissue healing.



- **Microcurrent Therapy:** Devices that deliver extremely low-level electrical currents to promote tissue healing and reduce pain.

KPRC (KAIMS PHYSIOTHERAPY & REHABILITATION CENTER) :

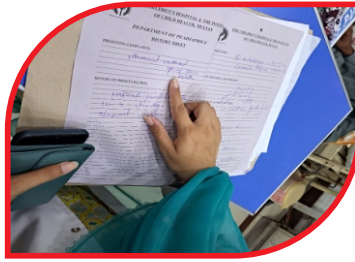
Our physiotherapy clinic is a facility where physical therapists provide services to help patients recover from injuries, manage chronic conditions, and improve their physical function and mobility. KAIMS physical therapy clinic is equipped with various tools and equipment tailored to the needs of patients and staffed by trained professionals who deliver personalized care. Key features and components of a physiotherapy clinic include:

- **Reception and Waiting Area Reception Desk:** For patient check-in, scheduling appointments, and handling administrative tasks.
- **Comfortable Seating:** A waiting area with chairs, reading materials for patient comfort.
- **Private Rooms:** Spaces where therapists conduct initial assessments, discuss treatment plans, and provide patient education.
- **Assessment Tools:** Equipment such as goniometers, inclinometers, and strength testing devices to evaluate the patient's condition.
- **Open Treatment Spaces:** Areas with treatment tables and equipment for exercises and manual therapy.
- **Private Treatment Rooms:** For one-on-one sessions that require privacy, such as manual therapy or certain modalities. Exercise and Rehabilitation Equipment:
- **Electrotherapy and Modalities:** TENS and EMS Units: Devices for electrical nerve and muscle stimulation to manage pain and improve muscle function. Ultrasound Machines: For deep tissue heating and promoting tissue healing. Heat and Cold Therapy: Hot packs, cold packs, and hydrotherapy devices for pain relief and inflammation reduction. Laser Therapy: Low-level laser devices for tissue healing and pain management.
- **Manual Therapy Tools:** Treatment Tables: Adjustable tables for joint mobilization, and other manual therapy techniques.
- **Specialized Tools:** Instruments for myofascial release, trigger point therapy, and other hands-on treatments.
- **Gait and Movement Analysis:** Gait Analysis System
- **Patient Education Resources:** Educational Materials: Pamphlets, diagrams, and multimedia resources to help patients understand their conditions and treatment plans.
- **Home Exercise Programs:** Customized exercise plans and demonstrations for patients to continue their rehabilitation at home



ELECTROTHERAPY DEVICES:

One day study tour visit at **Pediatric Ward, Children Hospital Multan**
Students visited **Neonatal ICU Ward, Pediatric Ward**, where students learnt how to take history (neonatal and children history)



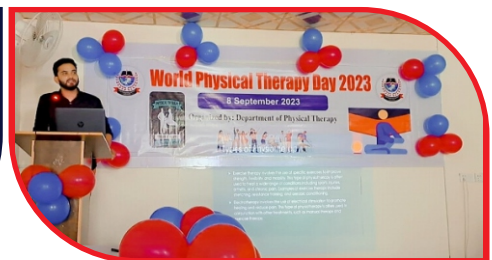
One day study tour visit at **Multan Institute of Kidney Diseases, Multan**

Students visited at **Radiology Department** to explore **X-ray machines, CT-Scan, MRI and Ultrasound**.

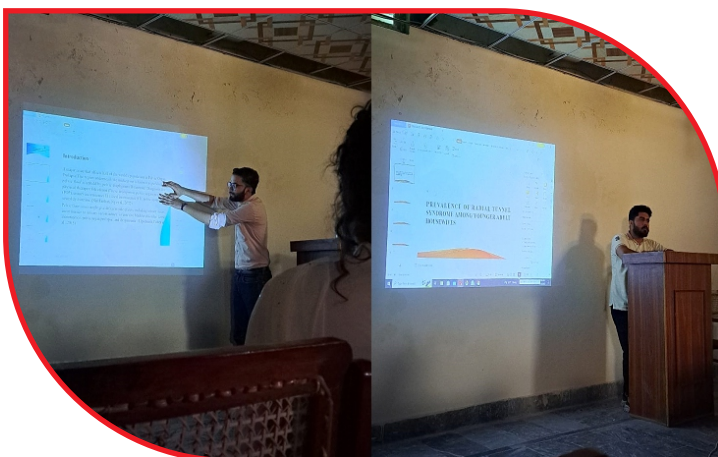


ACTIVITIES

We celebrated **International world physical therapy day** on **8th September** at **Kaims International Institute, Multan** where a presentation on the history of physiotherapy day and the **subject of arthritis** was presented to the pupils.



One day we had arranged **synopsis defense**. In this **DEFENSE** students told about their **Research topics**.



We had arranged different **free Physical Therapy camps**. Where patients get free physiotherapy and and they seek knowledge about their health condition.



KPRC arranged a very informative **cardiopulmonary assessment** and examination class for the internship students with honorable guest and mentor **Dr Sami Aleem MBBS MO(MIC)**.



Dr. Asma Sattar

Head Of Physical Therapy Department
MS Orthopedic Manual Physical Therapy

Doctor of Physical Therapy (DPT)
Department is dedicated to

providing quality education, enables the student to become clinical physiotherapist thus help them to establish their clinics to improve the lives of patients and clients in the ever changing healthcare landscape. We equipped students with theoretical as well as evidence based practical knowledge. In KAIMS International Institute DPT Department also provide opportunities to the students in the field of academics as well as in Research. Our DPT department has our own KAIMS Physiotherapy and Rehabilitation Center (KPRC) help students in making evidence based diagnosis and treatment under the supervision of experienced Physical Therapist.



WELCOME TO THE DEPARTMENT OF HUMAN NUTRITION AND DIETETICS AT KAIMS

INTRODUCTION

The Department of Human Nutrition is well-established for envisioning the betterment of human health through rigorous academic programs, highly trained staff, sophisticated laboratories, innovative research, and significant engagement opportunities. Furthermore, the department also possesses a professional clinic (**KNDC**) where students attain a hands-on experience while also studying. The students will be awarded degree of **GCUF** as the institute is also affiliated with GCUF, Pakistan.



MISSION

Our mission is to raise the quality-of-life and improve the nutritional status of individuals by:

- Provision of therapeutic diet services for patients in hospitals.
- Uplifting people's wellbeing through meal-management practices focusing on a truly balanced diet.
- Encouraging general lifestyle modifications by community outreach programs
- Focusing on prevention of diseases by using clinical nutritional expertise.
- Providing knowledge of nutrition to undergraduate and graduate students through nutritional labs, professional clinics, and comprehensive teaching.





SCOPE

CLINICAL NUTRITIONIST CAN ASSIST YOU WITH:

- WEIGHT MANAGEMENT LOSS/GAIN AND SUPPORT
- DIABETES (TYPE 1, TYPE 2)
- IMPAIRED GLUCOSE TOLERANCE, GASTROINTESTINAL DISEASES
- CARDIOVASCULAR DISEASES
- HIGH BLOOD PRESSURE, RISK REDUCTION
- HYPERTENSION
- GASTROINTESTINAL DISEASE /COMPLICATIONS
- KIDNEY DISEASE/RENAL DISORDERS
- RESPIRATORY DISEASE/DISTRESS (COPD)
- PREGNANCY/LACTATION
- ENTERAL AND PARENTERAL
- NUTRITION/CRITICAL CARE
- FOOD ALLERGIES (OPTIONAL)
- PEDIATRICS (OPTIONAL)
- CLINICS NUTRITION
- SPECIALIZED CARE
- PUBLIC HEALTH NUTRITION
- ONLINE AND TELEHEALTH SERVICES
- INDUSTRIAL EXPOSURE

KAIMS NUTRI DIET CLINIC

ADMISSIONS

Open



MISS MISHAL SAEED
HEAD OF DEPARTMENT

As an Head of Department my mission is to foster an environment of excellence and innovation in this department, dedicated to the advancement of knowledge in the field of Nutrition. Our faculty are passionate about teaching and mentoring, and they bring a wealth of experience and expertise to the students

www.kaims.edu.pk

☎ 061-6220022 , 03000-454222
📍 Northern Bypass, Main Bosan Road Multan



KAIMS



KNDC



CONAK

Community of Nutritionist at KAIMS



Our Target Is Empowering Health Through Nutritional Excellence

KAIMS INTERNATIONAL INSTITUTE, MULTAN



CONAK

Community of Nutritionist at KAIMS

MAHAR KHIZAR HARAJ DIRECTOR INSTITUTE
MISS MISHAL SAEED HEAD OF DEPARTMENT
MISS WARDHA SHAFEEQ CLINICAL HEAD
MISS MARIA REHMAN LECTURER

THE DEPARTMENT OF HUMAN NUTRITION AND DIETETICS AT KAIMS INTERNATIONAL INSTITUTE MULTAN, IN COLLABORATION WITH THE ESTEEMED DIRECTOR AND DSA'S OF THE INSTITUTE, HAS CHOSEN TO APPOINT THE EXECUTIVE BODIES FOR THE COMMUNITY OF NUTRITIONISTS AT KAIMS.



SHAHDA HASHMI
PRESIDENT



SAMEER ABBAS
VICE PRESIDENT



IQRA NADEEM
STAGE SECRETARY / SPEAKER



M. ARBI RAMZAN
SOCIAL MEDIA ACTIVIST



MAHNOOR
SOCIAL MEDIA ACTIVIST



ALI RAZA
GENERAL SECRETARY



HAMZA SAFDAR
PRESIDENT PERSON



AREEBA
JOINT SECRETARY



HUMNA NAVEED
EVENT ORGANIZER



DUA ADNAN
EVENT ORGANIZER

MUHAMMAD RAMEEZ
FINANCE SECRETARY

ILSA NAVEED
MANAGEMENT COMMITTEE

ALVEENA RUBAB
MANAGEMENT COMMITTEE

SANA AWAIS
MANAGEMENT COMMITTEE

ALEENA NOOR
MANAGEMENT COMMITTEE

- Patient Assessment
- Nutritional Fact Sheets
- Novel Food Product Development
- Community Counseling
- Nutrition Surveys
- Safe And Nutritious Food
- Diet Plans
- Nutrition Awareness Campaigns
- Industrial Exposure
- Departmental Achievements
- Patients Case Studies
- In House Practices
- Hospital Visits
- Disease Awareness Camps



SCOPE OF BS HND IN PAKISTAN

As one of the emerging programs gaining popularity in Pakistan, it has a broad scope nationally as well as globally.

- **Nutritionists** are in high demand for administering different nutritional policies and programs nationally and internationally.
- **Students** are required in medical facilities for providing therapeutic diets for different illnesses or health conditions like CVDs, Diabetes, Celiac disease etc.
- **By** doing extensive research in nutrition, students can boost their skills and build a reputation in the academic community.
- **Students** are able to set up their own clinics where they can provide patients with personalized diet plans.
- **Nutritionists** are greatly needed to enhance the nutritional awareness of the population in schools and high-risk communities.



HEAD OF DEPARTMENT'S MESSAGE



I am delighted to share that, by the grace of Allah the Almighty, an independent department of Human Nutrition and Dietetics has been established in the KAIMS International Institute, Multan. According to recent data in 2023, Pakistan has been declared acutely malnourished. There is a great need for nutritional education and awareness throughout the general population.

Therefore, this step is significant for the improvement of food and nutritional status throughout the country. I am confident that with the collaborative effort of public and private sectors, academics and students, Pakistan's nutritional well-being can gain a major revival. I hope that the establishment of this department will not only cater to the educational needs of the students but will also enrich students with a goal to impact the nutritional health of people and reinforce the prestige of the institute at large.

Best Regards,

Mishal Saeed

Head Of Human Nutrition & Dietetics Department

M.phil Food & Nutrition

The English Department aims to promote critical thinking among students by helping them gain a deeper understanding of language and literature, while emphasizing the importance of efficient reading and writing along with a study of literature in all its diversities.



ACTIVITIES

English department engages its students in other learning activities too apart from studies. Seminars on job interviews, cv making, time management, workshops, mock interviews, walks on reading awareness have been held under the supervision of faculty. Further activities are being planned according to the requirement of job market and subjects.



PROJECTS

KAIMS Literature & linguistics Ace Society (KLLAS) aims to foster a love for language, enhance literary creativity and provide an avenue for self-expression beyond the academic curriculum.

KLLAS Has Many Sections Of

- Debate wing • Drama wing • Magazine wing • English spoken wing • Media wing



KAIMS International Institute, Multan

DEPARTMENT OF ENGLISH

*Today A Reader,
Tomorrow A Leader*

READING AWARENESS Activity

Chief Organizers

MA'AM RAMSHA ZABTA
(HOD ENGLISH)

Chief Organizers

MS. HUMERA KHAN
(SENIOR LECTURER)

ORGANIZERS

BS ENGLISH 7TH



PROGRAM OFFERED

- Program Name: BS English (4 years degree)
- Eligibility Criteria: 50% marks in HSSC, Number of seats offered are 50

GRADUATED BATCHES

| BATCHES | SESSION | GRADUATION YEAR |
|---------|---------|-----------------|
| Batch 1 | 2016 | 2020 |
| Batch 2 | 2017 | 2021 |
| Batch 3 | 2019 | 2023 |



HOD'S MESSAGE

The English Department boasts an excellent, highly-qualified faculty with expertise in different contemporary literary and linguistic trends. Our curriculum is designed to encompass various areas in contemporary linguistic and literary traditions. We believe in an all-encompassing education which includes emphasis on academics along with extracurricular activities. This amalgamation of academic and extracurricular activities aims to nurture critical-minded individuals with enhanced intellectual abilities. For this purpose, along with our comprehensive curriculum, the English Department offers a variety of platforms like the reading club, speech competitions, and the literary and debating society. We continue organizing conferences, seminars and symposium to inculcate a vibrant research culture and encourage budding researchers. We welcome students who possess a keen interest in English language and literature, and are hoping to broaden their horizons. I am looking forward and aiming to make it one of the best Department of KAIMS, as its scope is never ending and it is the part of each and every other department of KAIMS.

Best Regards,

RAMSHA ZABTA

Head of English Department

Mphil English literature & Linguistics

MEET OUR KAIMS IT DEPARTMENT

EMPOWERING THE FUTURE

INTRODUCTION

In the age of digital transformation, where technology is the cornerstone of innovation, our university's IT department stands as the bedrock of support, ensuring seamless connectivity and empowering every facet of academic and administrative life. Established in 2016, under the visionary leadership of the honourable director of KAIMS, Mr. Khizar Hayat Hiraj, the IT department has since been at the forefront of shaping our university's technological landscape. Over the past Eight years, four batches of talented IT professionals have passed out, equipped with the knowledge and skills to meet the ever-evolving demands of the digital era.

Our IT department embodies the quintessential characteristics expected from any esteemed university's IT division. It operates with a commitment to excellence, constantly striving to provide innovative solutions and reliable support services. From managing complex network infrastructures to implementing robust cybersecurity measures, our IT wizards demonstrate unparalleled expertise and dedication in ensuring the smooth functioning of our university's technological ecosystem. They are the architects behind the digital platforms that facilitate seamless communication, collaboration, and knowledge sharing among students, faculty, and staff.

As we embark on this journey to explore the pivotal role played by our IT department, let us delve deeper into its rich history, its remarkable achievements, and its unwavering dedication to driving technological innovation and excellence within our university community.



SECTION 1: OVERVIEW OF THE IT DEPARTMENT

The IT department at our university is dedicated to leveraging cutting edge technology to enhance both academic and administrative experiences. Established in 2016, our department has been pivotal in driving the university's digital transformation journey. Our core functions encompass a wide array of services aimed at ensuring seamless connectivity, robust infrastructure, and comprehensive support across all technological domains.

OBJECTIVES

- 1. Continuous Improvement:** We are committed to continuously improving our services and infrastructure to meet the evolving technological needs of the university community.
- 2. Innovation:** Our objective is to drive innovation and creativity by exploring new technologies and implementing best practices in IT management.
- 3. Accessibility:** We strive to ensure that technology remains accessible and user-friendly for all members of the university community, regardless of their level of expertise.
- 4. Collaboration:** We promote collaboration and partnership across departments to enhance the integration and effectiveness of technology in achieving academic and administrative goals.

MISSION

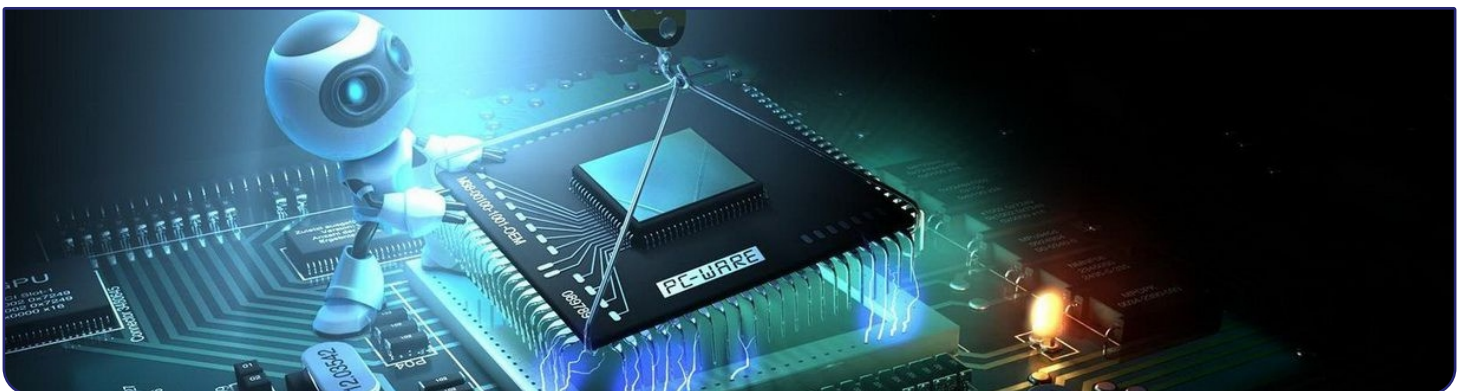
Our mission is to provide cutting-edge technology solutions and support services that empower every facet of academic and administrative life at our university. By fostering a culture of innovation, collaboration, and continuous improvement, we aim to position our university as a leader in leveraging technology to drive academic excellence and student success.

GRADUATED BATCHES

| BATCHES | SESSION | GRADUATION YEAR |
|---------|---------|-----------------|
| Batch 1 | 2016 | 2020 |
| Batch 2 | 2017 | 2021 |
| Batch 3 | 2018 | 2022 |
| Batch 4 | 2019 | 2023 |

SECTION 2: MEET THE FACULTY

Our IT department is comprised of a diverse team of dedicated professionals, each bringing unique expertise and experience to the table. Get to know some of the key members who work tirelessly to ensure the smooth functioning of our university's technological infrastructure:

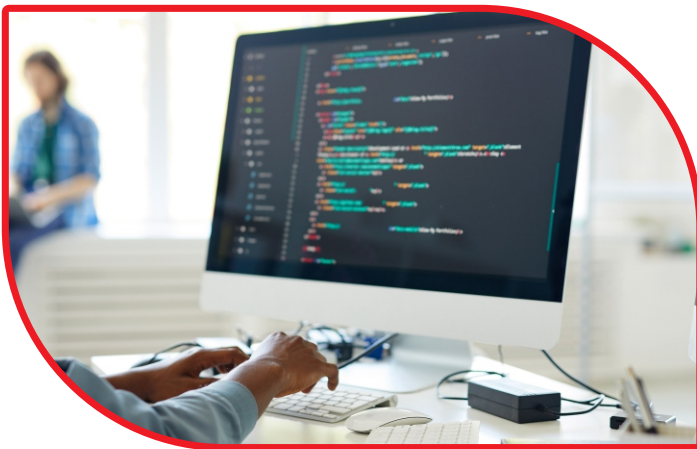




MR. ARBAB HAIDER

Head Of Information Technology Department
M.Phil. Computer Science

Mr. Arbab Haider leads our IT department with his extensive experience in strategic technology planning and management. With a Masters in Computer Science and a passion for innovation, he oversees the development and implementation of IT strategies that align with the university's mission and goals.



SECTION 4: INNOVATIONS AND INITIATIVES

SEMINAR ON MATHEMATICS & CREATIVITY INNOVATING THE FUTURE.

The "Seminar on Mathematics & Creativity: Innovating the Future" explored the symbiotic relationship between mathematics, computer science, and IT, showcasing how mathematical concepts drive innovation and creativity in technology. Through engaging discussions and presentations, participants gained insights into the interdisciplinary nature of these fields, paving the way for ground-breaking advancements and solutions in the digital age.



KAIMS SCIENCE FAIR

The "KAIMS Science Fair" provided a platform for showcasing the innovative projects and research endeavours of the CS/IT department, culminating in their well-deserved first position. Featuring a diverse array of exhibits and presentations, the event highlighted the department's commitment to excellence and its contributions to cutting-edge advancements in science and technology. Through collaborative efforts and ingenuity, the CS/IT department demonstrated its leadership in driving forward-thinking solutions and shaping the future of the scientific landscape.



CONCLUSION

As we navigate the digital frontier, our university's IT department remains at the forefront, guiding us towards a future where technology empowers learning, drives innovation, and fosters collaboration. Let us extend our gratitude to the dedicated professionals who work tirelessly behind the scenes to ensure that our university remains connected, secure, and prepared for the challenges and opportunities of tomorrow.

WELCOME TO THE DEPARTMENT OF COMPUTER SCIENCE IN KAIMS

WHAT IS COMPUTER SCIENCE?

Computer science is the study of computation, encompassing the design and development of software systems. It delves into algorithms, data structures, programming languages, computer architecture, operating systems, networking, artificial intelligence, and more. Computer scientists are the architects of the digital world, creating the tools and technologies that shape our lives.

WHY CHOOSE A BS IN COMPUTER SCIENCE?

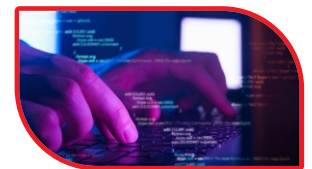


- ▶ **High Demand:** Computer science professionals are in high demand across various industries.
- ▶ **Lucrative Careers:** The field offers competitive salaries and excellent job prospects.
- ▶ **Impactful Work:** You'll contribute to solving real-world problems and shaping the future.
- ▶ **Intellectual Challenge:** Computer science fosters creativity, critical thinking, and problem-solving skills.
- ▶ **Versatility:** A CS degree opens doors to diverse career paths, from software development to cybersecurity, data science, and beyond.

OUR BS IN COMPUTER SCIENCE PROGRAM

The BS program provides a strong foundation in computer science fundamentals. Here's a glimpse into what you can expect:

- **Core Courses:** These courses delve into core CS concepts like algorithms, data structures, programming languages, computer architecture, operating systems, and databases.
- **Elective Courses:** You can explore specialized areas like artificial intelligence, machine learning, software engineering, human-computer interaction, computer graphics, and network security.



FURTHER EXPLORATION

To delve deeper into the world of computer science, consider these resources:

Books: Introductory computer science texts and biographies of renowned computer scientists.

Online Courses: Explore introductory CS courses offered on platforms like Coursera, edX, or Udacity.

Coding Bootcamps: Immerse yourself in intensive programming bootcamps for specific programming languages or disciplines.

Tech Blogs and Podcasts: Stay up-to-date with industry trends and news through tech blogs and podcasts.





MR. ABDUL MAJID KHOKHAR

Head Of Computer Science Department
M.Phil. Computer Science

This department equips students with the knowledge and skills to excel in the dynamic field of computer science. In KAIMS International Institute Bachelor of Science (BS) degree program prepares you to become a problem-solver, an innovator, and a leader in the ever-evolving world of technology.

THE FUTURE OF COMPUTER SCIENCE

The field of computer science is constantly evolving, offering exciting opportunities for innovation and growth. With a strong foundation in CS, you'll be well-equipped to shape the future of technology, tackle complex challenges, and build a fulfilling career.

The field of computer science, once a niche pursuit, has become the beating heart of the modern world. From the smartphones in our pockets to the algorithms shaping our online experiences, computer science underpins nearly every facet of our lives. A Bachelor of Science in Computer Science (BS CS) equips graduates with the foundational knowledge and practical skills to thrive in this ever-evolving landscape. This comprehensive analysis delves into the future scope of a BS CS degree, exploring the projected job market, emerging technologies, and the ever-expanding frontiers of this dynamic discipline.

A BS CS degree provides a strong foundation, but specialization can give graduates a competitive edge in the job market. Here's a glimpse into some exciting areas of specialization:



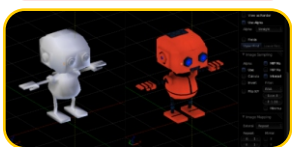
Artificial Intelligence: Graduates can specialize in areas like natural language processing, computer vision, robotics, or deep learning, focusing on developing intelligent systems that can learn and make decisions.



Human-Computer Interaction (HCI): Specialists in this field bridge the gap between humans and technology, designing user-friendly interfaces and experiences.



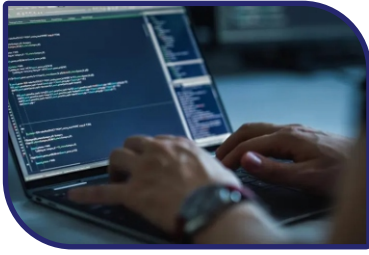
Bioinformatics: This field combines computer science with biology to analyze and interpret biological data, contributing to advancements in healthcare and biotechnology.



Computer Graphics and Visualization: Specialists in this area create stunning visuals for films, games, and simulations, pushing the boundaries of computer-generated imagery.



Cryptography: Graduates with expertise in cryptography can develop secure communication protocols and protect data from unauthorized access.



- **Programming Languages:** You'll gain proficiency in fundamental programming languages (e.g., C++, Java, Python) and potentially explore others based on your interests.
- **Projects and Labs:** Hands-on projects and labs allow you to apply your knowledge to real-world scenarios and build practical skills.
- **Internships and Research Opportunities:** Gain valuable experience and build your network through internships and research opportunities with faculty or industry partners.

FACULTY AND RESOURCES

Our department boasts a dedicated faculty of experienced computer scientists passionate about teaching and research. We provide a variety of resources to support your academic journey:

- ▶ **Modern Labs:** Access cutting-edge computer labs equipped with the latest software and hardware.
- ▶ **Academic Advising:** Get personalized guidance from faculty advisors throughout your program.
- ▶ **Career Services:** We offer career counseling, resume workshops, and job placement assistance.
- ▶ **Student Organizations:** Join vibrant student organizations to connect with peers, participate in competitions, and explore your interests.



BEYOND THE CLASSROOM

The BS in CS program prepares you for a successful career in technology. We encourage you to participate in:

- **Hackathons:** Collaborate with peers on coding challenges to develop innovative solutions.
- **Open-Source Projects:** Contribute to open-source software projects and gain valuable real-world experience.
- **Coding Competitions:** Test your skills and compete with national or international programmers.
- **Industry Events:** Attend workshops, conferences, and seminars to network with professionals and stay updated on industry trends.

GETTING STARTED

If you're passionate about technology and eager to make a difference, the BS in Computer Science program could be the perfect fit. Explore our department website for details on:

- ▶ **Admission requirements** ▶ **Curriculum information** ▶ **Course descriptions**
- ▶ **Faculty profiles** ▶ **Student testimonials** ▶ **Financial aid information**

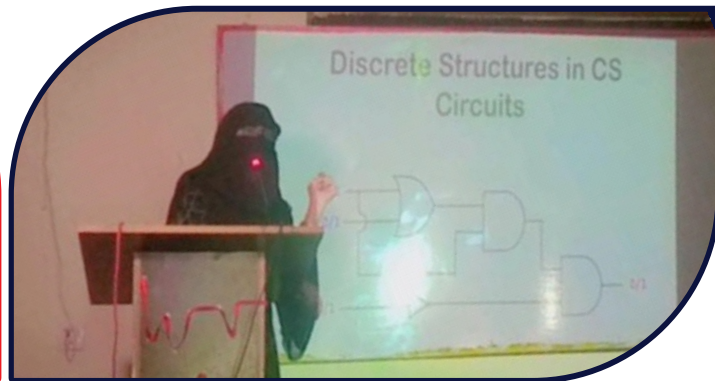
MATHEMATICS AT KAIMS

ACTIVITIES

One day Seminar on **Mathematics and Creativity: Innovating the future of Computer science**

SPONSORED BY KAIMS CAREER DEVELOPMENT SOCIETY

That's a fascinating topic! Mathematics and creativity are both essential components of innovation in computer science. By embracing both mathematics and creativity, computer scientists can push boundaries, drive innovation, and shape the future of technology!

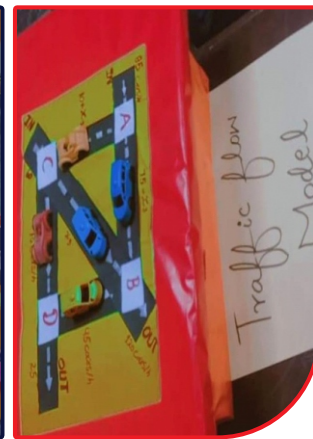
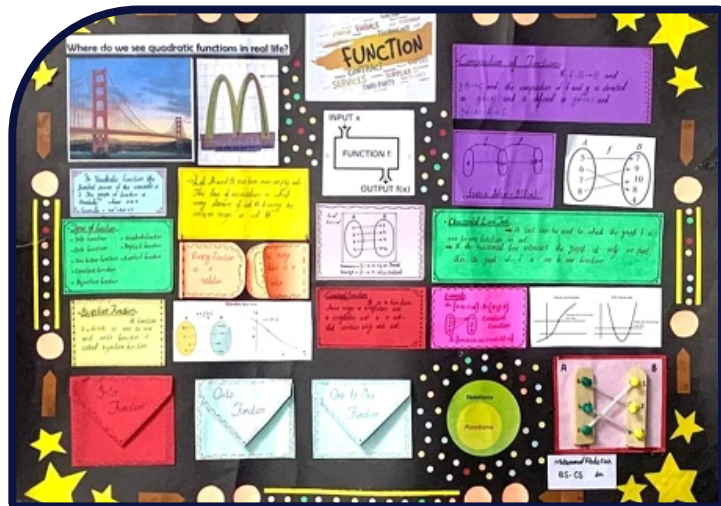


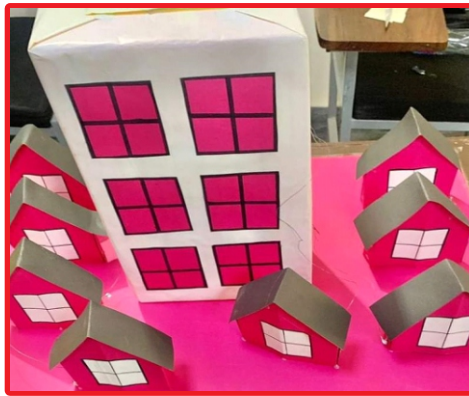
Applications of Function in Daily life



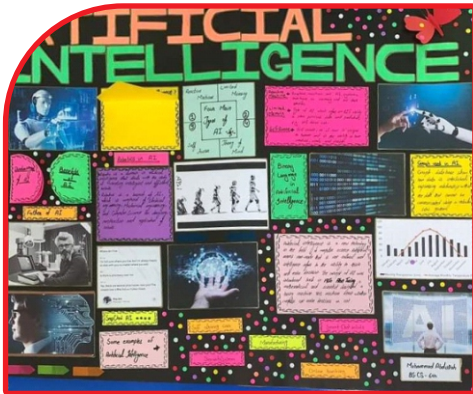
Traffic Flow Model

Math allows us to model and simulate real-world phenomena, enabling creative solutions in fields.



GAME THEORY**MINIMUM SPANNING TREE****SOCIAL NETWORKING****ARTIFICIAL INTELLIGENCE**

Math is the backbone of AI and ML, while creative approaches are needed to develop innovative applications and improve their performance.

**ARTIFICIAL INTELLIGENCE****ENCODING AND DECODING****ANALOG CLOCK****KAIMS INTERNATIONAL INSTITUTE WORLD SCIENCE DAY**

WELCOME TO THE DEPARTMENT OF MANAGEMENT SCIENCES AT KAIMS

KAIMS International Institute Multan was established in 2016. The department of Management sciences was introduced in 2016. Department of Management Sciences is dedicated to excellence in education, research, and community service. We strive to create a dynamic and supportive environment that fosters innovation, critical thinking, and leadership.

In today's rapidly changing global landscape, the role of management professionals has never been more crucial. Our program (BBA hons) is designed to equip you with the knowledge, skills, and practical experience necessary to navigate and succeed in this complex environment. We offer a comprehensive curriculum that covers key areas such as strategic management, organizational behavior, marketing, finance, and operations management.

Our faculty members are distinguished scholars and industry experts who bring a wealth of experience and insight into the classroom. They are committed to mentoring and guiding you throughout your academic journey, ensuring that you are well-prepared to meet the challenges of the business world.

In Management Sciences department students try to develop business strategies. Total (4 Batches (2016 to 2019) and around 300 plus students pass out from KAIMS and working in different public and private sectors. Bachelor of Business Administration degree covers different case studies, projects and presentations skills and knowledge in students. We are also proud of our vibrant community of students and alumni, who are making significant contributions in various sectors around the globe.

VISION

To be a leading global center of excellence in management education, research, and innovation, empowering future leaders to create sustainable value and positive impact in a dynamic and interconnected world.

Subhan Javed

Head Of Management Science Department

Ms Management Science



WELCOME TO THE DEPARTMENT OF THE MEDICAL LABORATORY TECHNOLOGY (MLT)

INTRODUCTION

Welcome to the Department of Medical Laboratory Technology (MLT) at KAIMS International Institute Multan. As the Head of the Department, I am proud to introduce you to a dynamic and innovative program at the forefront of medical diagnostics and research.

Our MLT department is dedicated to providing top-tier education and hands-on training to future medical laboratory technologists. Our comprehensive curriculum is designed to equip students with the knowledge and skills necessary to excel in the fast-paced and ever-evolving field of medical laboratory science. We offer a range of courses covering key areas such as Clinical biochemistry, Microbiology, Immunology, Hematology, and Molecular diagnostics.



HEAD OF DEPARTMENT'S MESSAGE

Our state-of-the-art laboratories are equipped with the latest technology and instrumentation, providing students with invaluable practical experience. Additionally, our partnerships with leading healthcare institutions offer students internships and real-world training opportunities, ensuring they are well-prepared to enter the workforce. Our faculty comprises experienced professionals and researchers who are dedicated to mentoring and guiding students. Their expertise and commitment to excellence foster a learning environment that encourages critical thinking, innovation, and professional growth. At the Department of Medical Laboratory Technology, we are not just training technologists but shaping the future of healthcare. Join us as we continue to advance the science of diagnostics and improve patient care through education, research, and innovation.

Best Regards,

Dr. Saira Saeed

Head Of Medical Lab Technology Department
PhD, Microbiology and Molecular Genetics

KAIMS INTERNATIONAL DIAGNOSTIC CENTRE (KIDC)

Medical laboratory or Diagnostic Centre is a laboratory where tests are conducted out on clinical specimens to obtain information about the health of a patient to aid in diagnosis, treatment, and prevention of disease. Clinical medical laboratories are an example of applied science, as opposed to research laboratories that focus on basic science, such as found in some academic institutions. KAIMS INTERNATIONAL Diagnostic Centre (KIDC) is established to use sophisticated biomedical instrumentation, as well as manual procedures, to perform testing and provide results that are essential in the diagnosis, treatment, and prevention of disease. It is estimated that over 70% of all medical decisions are based in part on laboratory results. The Medical Laboratory Technician has diverse and multi-level functions in the areas of collecting, processing, and analyzing biological specimens and other substances, principles and methodologies, performance of assays, problem solving, troubleshooting techniques, correlation of clinical procedures and results, principles and practices of quality assessment for all major areas: clinical chemistry, hematology, immunology, immunochemistry, microbiology, and molecular biology practiced in the contemporary clinical laboratory. Medical Laboratory Technicians practice independently and collaboratively, being responsible for their own actions, as defined by the profession. They have the requisite knowledge and skills to educate laboratory professionals, other health care professionals, and others in the laboratory practice as well as the public.



WELCOME TO THE DEPARTMENT OF BIOCHEMISTRY DEPARTMENT

Welcome to the Biochemistry Department at KAIMS International Institute, Multan. As the head of this dynamic department, I am thrilled to share our passion for exploring the molecular intricacies of life. Our mission is to unravel the complexities of biological molecules and processes, paving the way for groundbreaking discoveries that drive advancements in medicine, biotechnology, and environmental science. We offer a cutting-edge curriculum that combines rigorous academic training with hands-on research, providing our students with the tools they need to excel in the fast-evolving field of biochemistry. Our state-of-the-art laboratories are hubs of innovation, where faculty and students collaborate on pioneering projects that address real-world challenges. Join us in our quest to decode the molecular secrets of life and contribute to a future where biochemistry plays a pivotal role in improving global health and sustainability.

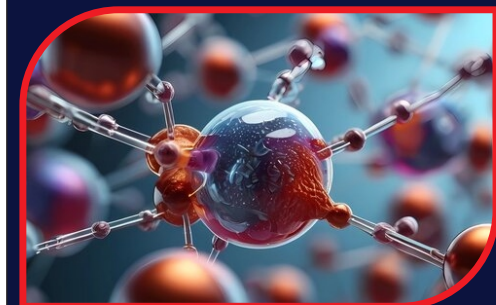
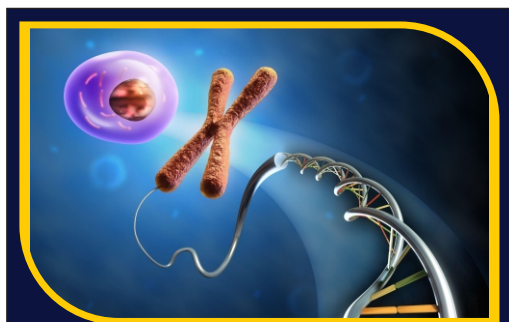


AIM OF BIOCHEMISTRY

- **Elucidate** the molecular basis of life processes
- **Understand** how biomolecules interact and regulate each other
- **Develop** new treatments and therapies for diseases
- **Improve** understanding of human health and disease
- **Apply** knowledge to develop new drugs, diagnostics, and therapies



The objectives of biochemistry include



1. Understanding the chemical nature of biomolecules and their interactions.
2. Elucidating the structure and function of biomolecules, including proteins, carbohydrates, lipids, and nucleic acids.
3. Deciphering the metabolic pathways and enzyme kinetics that regulate biochemical processes.
4. Exploring the molecular basis of cellular signaling and communication.
5. Understanding the regulation of gene expression and protein synthesis.
6. Investigating the molecular mechanisms of diseases and developing new diagnostics and therapies.
7. Discovering new drugs and developing rational drug design approaches.
8. Improving crop yields and developing new biomaterials through agricultural biochemistry.
9. Understanding the molecular basis of human health and disease.
10. Advancing biotechnology and its applications in medicine, industry, and agriculture.

CHEMISTRY AT KAIMS

The Chemistry Department is a vibrant community of scholars, researchers, and students passionate about understanding the building blocks of matter and their interactions. Our department is dedicated to:

- **Advancing knowledge in chemical sciences through innovative research**
- **Providing high-quality education and training for future chemists and scientists**
- **Fostering a culture of collaboration, creativity, and critical thinking**

Our faculty and students are engaged in cutting-edge research, exploring new frontiers in areas such as:

- **Drug discovery and development** . **Sustainable energy and environment**
- **Biomedical research and diagnostics** . **KAIMS International Institute, Multan**

WELCOME TO THE MICROBIOLOGY DEPARTMENT

Welcome to the Microbiology Department at KAIMS International Institute. As the head of the department, I am delighted to share our commitment to excellence in research, education, and innovation. Our dedicated faculty and researchers are passionate about exploring the unseen world of microorganisms, which play crucial roles in our environment, health, and industry. We offer a comprehensive and dynamic learning experience that equips students with the knowledge and skills necessary to excel in various scientific and professional fields. Through cutting-edge research and state-of-the-art laboratories, we delve into the complexities of microbial life, from understanding pathogens and developing new antibiotics to harnessing microbes for biotechnology and environmental sustainability. Our collaborative and inclusive community fosters critical thinking, creativity, and a passion for scientific discovery. We invite you to join us in our mission to advance the frontiers of microbiology and make meaningful contributions to science and society.

Best Regards,

Dr. Saira Saeed

Head Of Microbiology Department
PhD, Microbiology and Molecular Genetics



AIM OF MICROBIOLOGY

- **Advance** our understanding of the microbial world
- **Improve** human health and well-being
- **Develop** new technologies and products
- **Protect** the environment and public health
- **Address** global challenges in infectious diseases, food security, and sustainability



The objectives of microbiology include

1. Identification and classification of microorganisms
2. Understanding microbial physiology and biochemistry
3. Studying microbial genetics and genomics
4. Exploring microbial ecology and environmental interactions
5. Understanding microbial pathogenesis and disease mechanisms
6. Developing new diagnostic techniques and tools
7. Discovering new antibiotics and antimicrobial therapies
8. Improving vaccine development and immunization strategies
9. Applying microbiological knowledge to food safety and quality control
10. Developing new biotechnological products and processes





KAIMS Your Home OF Learning

Thank You!

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