

**<https://shu.edu.pk/Faculty-of-Information-Technology/>**



## **Faculty of**

## **Information Technology**

The Faculty of Information Technology at SHU fosters innovation through its Computer Science programs, from BS to Ph.D., aligned with modern industry needs. With a curriculum covering AI, software development, and data structures, students gain expertise for dynamic careers. Guided by experienced faculty and industry experts, the faculty emphasizes research, practical training, and societal impact.

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## Dean's Message

This millennium is an era of innovation and change, and this change is not limited to any specific industry rather it is wrapping around every walk of life. Education is no different. Traditional boundaries between different educational specializations are fading away. This disruptive trend has given birth to many professions which were never thought of before, for example medical physicists, computational biologists, computational historians etc. One common aspect in all of these different interdisciplinary educational specializations is that technology, specifically computational technology is taking center stage. This is now no surprise that the future will be shaped by the people who will have the capability of working with these computational machines, also known as Computers. As a learning facilitator, I encourage our youth to embark on the journey of thinking and to build an ability to question what are the limits of current technology and how to make a dent in those limits.



## **Prof. Dr. Engr. Sheeraz Arif**

**Professor & Dean**

**Faculty of Information Technology**

## **Departments Under Faculty of Information Technology**

[View All Programs](#)

### **Department of Computer Science**

At Salim Habib University (SHU), we offer a BS program in Computer Science that is pursuant to the latest technological trends. Consistent with our vision to be a leader in innovation, research, and dissemination of knowledge, we aspire to impart education in an effective and contemporary manner so that our students can cope up with the rapid changes in the market needs. The curriculum of the offered program involves the study of data and data structures and the algorithms to process these structures; of principles of computer architecture, both hardware and software; of addressing particular challenges in areas such as robotics, computer vision, artificial intelligence, or digital forensics; and of language design, structure, and translation technique. Our faculty consists of members with local and international research and industry experience.

The Computer Science department at SHU offers a flexible study environment where students are empowered to focus on the interdisciplinary/specialized areas of their choosing.

The Department of Computer Science offers an exceptional blend of theoretical research and extensive practical training. It transforms students into skillful professionals ready to take up real-world challenges in the industry.

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## **Faculty Spotlight (Invited Speaker / keynote Speaker)**

### **Dr. Samita Bai**

IEEE-SSUET-WIE celebrated International IEEE WIE Day 2024 'TechConnect'24', Sir Syed UET, invited as guest panel discussion on topic "AI & 4IR Technologies for Women". 26th June 2024.

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### **Dr. Samita Bai**

IEEE R10 WIE Champions Initiate "Building a Brighter Future", - Hamdard University & Mehran University of Engineering & Technology, keynote speaker on the topic "Role of Women in AI". 13th December 23.

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### **Dr. Samita Bai**

1st International Multidisciplinary Conference on Emerging Trends in Engineering Technology-2023 (1st IMCEET-2023), - Represented European Education at Habib University Karachi. Feb 2023.

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## **Prof. Dr. Rizwan Ahmed Khan**

Life after graduation - Preparing for Erasmus Mundus Scholarship - Represented European Education at Habib University Karachi. Feb 2023.

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## **Prof. Dr. Rizwan Ahmed Khan**

The role of Artificial Intelligence in healthcare - International research Symposium 2023. Dow University of Health Sciences (Dow Institute of Health Professionals Education (DIHPE)). Karachi, March 2023.

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## **Prof. Dr. Rizwan Ahmed Khan**

Elevating Healthcare: The Convergence of AI and Medical Imaging - 3rd Annual Biological Science Conference, Aga Khan University, Karachi, Nov 2023.

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## **Prof. Dr. Rizwan Ahmed Khan**

AI: A Transformative Agent in Higher Education - 2nd IEMC Symposium (Integrating Effective Methodologies in the Classroom), DHACSS College for Women, DHA Phase VIII, Karachi, Feb 2024.

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## **Prof. Dr. Rizwan Ahmed Khan**

Advancing Healthcare: The Confluence of AI, Computer Vision, and Medical Imaging, Mini Symposium on AI in Health Sciences. Center for Artificial Intelligence in Health Sciences (PCMD) and Education Network (SIREN), International Center for Chemical

and Biological Sciences (ICCBS), University of Karachi, 24th April 2024. .

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## **Prof. Dr. Rizwan Ahmed Khan**

1. Erasmus Mundus Scholarship - a life changing journey, European Commission Erasmus+, EU Roadshow Event at Balochistan University of Information Technology, Engineering and Management Sciences (BUIITEMS), Quetta on June 13, 2024.

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## **Student Achievements**

### **SHU Students Secure Third Place at DURS 2024 for PCOS Prediction Project**

Student team consisting of Aliza Alwani, Dileep Kumar, and Hasaan Abdullah from the department of Computer Science were awarded third Place for their project 'Predictive Analysis of PCOS on Ultrasound Images Using XAI and MLOps.' At the Dhanani School of Science and Engineering (DSSE) Undergraduate Research Symposium (DURS 2024) , Habib University, Karachi, on Thursday, May 16, 2024. The prize-winning project was supervised by Prof. Dr. Rizwan Ahmed Khan, Dean, Faculty of Information Technology, Salim Habib University. Undergraduate students from various universities, including Habib University, SZABIST, FAST National University, and NED University, also presented their research at the event.

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### **SHU Students Win Second Prize at AKU Conference for Parkinson's Research**



Prof. Dr. Rizwan Ahmed Khan, Dean, Faculty of Information Technology, Salim Habib University, was an Invited Speaker at The Aga Khan University's 3rd Annual Biological Sciences Conference: From Basics to Breakthroughs, that took place on Wednesday, November 15, 2023. His presentation, titled 'Elevating Healthcare: The Convergence of AI and Medical Imaging', was an enriching experience for all who attended. Computer Science students Aliza Alwani, Dileep Kumar, and Hasaan Abdullah, were awarded Second Prize for their research poster on 'Machine Learning Approach for Early Parkinson's Disease Identification through Voice Analysis', among forty incredible presentations.

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## **SHU Students Win Third Place for Breast Cancer AI Project**

Computer Science students presented their projects at the Habib University Research Symposium held on Tuesday, May 16, 2023, which featured projects from students of several leading institutions. Student team from Computer Science department working on Breast Cancer Analysis under the supervision of Prof. Dr. Rizwan Ahmed Khan, Dean, Faculty of Information Technology, Salim Habib University, won Third Prize! The students behind the prize-winning project, titled 'Explainable Artificial Intelligence (XAI) For Breast Cancer Classification' are Maryam Ahmed and Tooba Bibi.

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## **Shining Stars**

### **Nisha Fatima**

Designation: (SAP B1) Management Training Officer (MTO)

Organization: Supernova Solutions Ltd

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## **Alisha Fatima**

Designation: Business Development Associate Organization:  
One world immigration law consultant

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## **Muhammad Faizan Khalid**

Designation: Full Stack Developer Organization: AsyncTech  
(Pvt.) Limited

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## **Abdullah Asif**

Designation: Flutter Developer Organization: Atlas Autos (Pvt)  
Limited

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## **Tooba Bibi**

Designation: Artificial Intelligence Engineer Organization:  
Taleemabad

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## **Maryum Ahmed**

Designation: Artificial Intelligence Engineer Organization:  
Remote

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## **Tayyab Ahmed**

Designation: Senior Flutter Developer Organization: Sentrax Ltd

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## **Laviza**

Designation: Cybersecurity Analyst Organization: British Telecom, UK

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## **Fatima Tuz Zehra**

Secured French University Scholarship For MSc (Internet of Things and Cybersecurity) Organization: Faculte Des Sciences et Technologies. Universite de Lille, France

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## **Workshops Conducted by Industrial Experts**

### **Academic Life and Professional Careers**

This workshop bridges the gap between academic life and professional careers, offering students practical skills for transitioning into the workforce. Attendees will gain insights into career planning, job search strategies, and professional development. Equip yourself with the tools and knowledge needed to succeed in your career journey

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### **Workshop on a Resume Writing and Soft Skills**

As part of its ongoing efforts to enhance student employability and professional readiness, the Department of Computer Science at Salim Habib University, under the Faculty of Information Technology, successfully organized a Hands-On Training Workshop on Resume Writing and Soft Skills through the University's Center of Learning and Teaching (CLT). The

workshop was conducted by Mr. Noor Ali, a seasoned academician and industry professional, currently serving as Senior Lecturer and Head of the Department of Computer Science at DHA Suffa University. With his rich experience and practical insights, Mr. Ali guided students through the essential components of a strong, professional resume, and emphasized the critical role of communication, interpersonal skills, and workplace etiquette in career development. The interactive session allowed students to engage in real-time resume critiques and mock scenarios, making the learning experience both practical and impactful. Participants left the session with a clearer understanding of how to present themselves confidently and professionally in the job market.

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## **Industrial Visit to Skillsrator**

Students from the Department of Computer Science participated in an invaluable industrial visit to Skillsrator, designed to broaden their understanding of the modern professional landscape. The primary objective of the visit was to boost student confidence and provide exposure to the diverse set of skills demanded by today's dynamic and rapidly evolving industries. Throughout the visit, students engaged with professionals, observed workplace operations, and gained practical insights into the expectations and workflows of a tech-driven environment.

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## **Industrial Visit to Ibex**

Students explored the dynamic environment at Ibex, gaining insights into software development, project management, and innovative technology solutions. This visit offered a practical understanding of the operations in a leading software company.

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## **Industrial Visit to Indus Hospital**

Students from the Department of Computer Science visited Indus Hospital as part of an educational initiative to explore the integration of IT in healthcare systems. The visit provided valuable insights into how hospitals utilize technology for patient data management, operational workflows, and digital health solutions. Participants had the opportunity to observe real-time systems in action, interact with hospital IT professionals, and understand the challenges and innovations involved in managing healthcare technology infrastructure. The experience helped bridge the gap between academic learning and real-world application in the healthcare sector.

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## **High-Performance Computing with CUDA Workshop Conducted by Dr Raazia Sosan**

This workshop provided the hands-on-training of CUDA for GPU programming and parallel computing, enabling participants to accelerate computational tasks. The workshop provided an opportunity to understand underpinning of high performance computing.

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## **SUMMER CURATION PROGRAM 2023**

A collaboration was forged between the Information Science & Technology Department (ISTD) of the Government of Sindh and Hazaa Institute of Technology. This partnership resulted in the inception of a pioneering initiative: a short course program for students focusing on Software Quality Assurance (SQA) at Salim Habib University.

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## **Conferences**

## Conferences

### Faculty of Information Technology

#### International Conference on Computing & Artificial Intelligence, 2025

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## Vision

To be a leading center of excellence in Information Technology education and research, shaping future innovators and problem-solvers. We aspire to empower students with cutting-edge knowledge, fostering a culture of creativity, ethical responsibility, and lifelong learning to drive technological advancements and global progress.

## Mission

The Faculty of Information Technology is dedicated to fostering innovation, critical thinking, and technical expertise in computing and emerging technologies. We strive to equip students with industry-relevant skills through quality education, research, and hands-on learning. Our mission is to develop ethical and competent IT professionals who contribute to technological advancements and societal progress.

## Pioneering Features of Faculty of Information Technology

- The curriculum involves the study of data structures and algorithms, computer architecture, and specialized challenges in

areas such as robotics, computer vision, artificial intelligence, and digital forensics.

- Students gain practical experience and address technological challenges through hands-on experiments and benefit from opportunities for national and international exposure via participation in competitions and exhibitions.
- We have state-of-the-art laboratories, including ICT Labs, Software Development Lab, and Project Lab, equipped with GPU-enabled systems and 3D cameras, all designed to support advanced research and real-world applications.
- We aim to empower students to conduct hands-on experiments and develop innovative solutions in computer vision, IoT devices, and other advanced technological fields.
- The curriculum is tailored to cultivate career-focused competencies and entrepreneurial skills.
- We offer mentorship from industry professionals to support the development of entrepreneurial ideas which help students refine their projects, navigate industry challenges, and transform innovative concepts into viable business solutions.
- Our faculty consists of members with local and international research and industry experience.
- Students engaged in 238 innovative projects in 2024 spanning Cybersecurity, AI-driven Automation, Smart Agriculture, Social Media, Assistive Technology, Network Security, Ethical Hacking, Educational Tools, Intelligent Systems for healthcare, e-commerce, and logistics areas.

## **Faculty**

**Dr. Raazia Sosan**

**Assistant Professor and Chairperson**

- Faculty of Information Technology, Department of Computer Science

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**Dr. Raazia Sosan**

**Dr. Samita Bai**

**Assistant Professor (on study leave)**

- Faculty of Information Technology, Department of Computer Science

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**Dr. Samita Bai**

**Prof. Dr. Engr. Sheeraz Arif**

**Professor & Dean**

- Faculty of Information Technology, Department of Computer Science

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**Prof. Dr. Engr. Sheeraz Arif**

**Mr. Syed Zahid Badshah**

**Professor of Practice**



- Faculty of Information Technology, Department of Computer Science

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**Mr. Syed Zahid Badshah**

**Ms. Saadia Karim**

**Senior Lecturer**

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**Ms. Saadia Karim**

**Ms. Sumra Khan**

**Senior Lecturer**

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**Ms. Sumra Khan**

**Ms. Muntaha Mehboob**

**Senior Lecturer**

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**Ms. Muntaha Mehboob**

[Mr. Muhammad Owais](#)

**Lecturer**

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[Mr. Muhammad Umer Mehmood](#)

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[Mr. Ateeque Rahman](#)

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**Mr. Ateeque Rahman**

[Mr. Bilal Ahmad](#)

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**Mr. Bilal Ahmad**

[Ms. Meerab Amir](#)

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**Ms. Meerab Amir**

[Ms. Aiman Odho](#)

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**Ms. Aiman Odho**

**Mr. Faraz Mukhtiar**

**Lecturer**

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**Mr. Faraz Mukhtiar**

**Ms. Duaiy e Amina**

**Lecturer**

- Faculty of Information Technology, Department of Computer Science

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**Ms. Duaiy e Amina**

**Ms. Sidra Nasir**

**Lecturer (on study leave)**

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**Ms. Sidra Nasir**

[Mr. Farzeen Ali](#)

**Research & Teaching Associate**

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**Ms. Seema Hashwani**

**Research & Teaching Associate**

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**Mr. Alyan Khan**

**Research & Teaching Associate**

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**Mr. Alyan Khan**

**Ms. Nisha Fatima**

**Research & Teaching Associate**

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**Ms. Nisha Fatima**

**Student Projects**

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