



WHY PHD-COMPUTER SCIENCE AT IBA?

The PhD in Computer Science at SMCS IBA is designed to nurture independent researchers capable of producing world-class contributions in their field. The program emphasizes cutting-edge research, scholarly publishing, and interdisciplinary collaboration—with a strong foundation in advanced theoretical and applied computing.

- 4-8 years completion time, HEC accredited
- Faculty with Global Research Networks
- Prestigious and Competitive degree recognized globally
- International Linkages & Events
- Applied Research Ecosystem
- Research labs in AI, Big Data, Networks & Vision

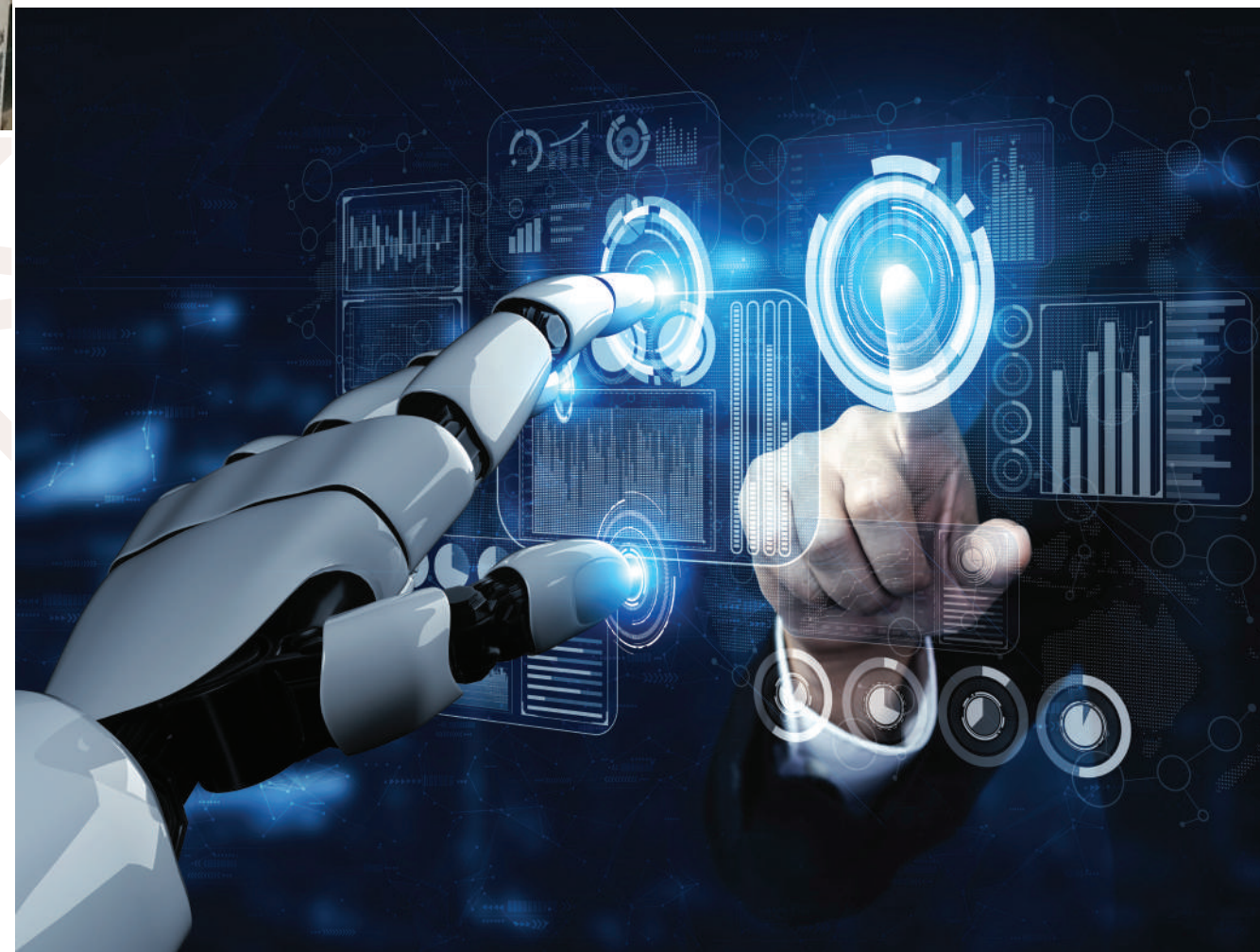


SCHOOL OF MATHEMATICS & COMPUTER SCIENCE



IBA Karachi is one of Pakistan's premier institutions, known for academic excellence, interdisciplinary learning, and cutting-edge research across diverse fields.

The School of Mathematics and Computer Science (SMCS) is a rapidly growing academic unit at IBA, offering excellence in computing and mathematical sciences. With a highly qualified faculty comprising researchers and industry experts, SMCS integrates rigorous academics with practical exposure. The school houses advanced labs in Artificial Intelligence, Web Science, Big Data, and Telecommunications. Its programs in Computer Science and Mathematics provide a solid foundation in theory and application—preparing students for research, higher education, and impactful careers in the tech and data-driven economy.



PROGRAM STRUCTURE

The PhD Computer Science program offers rigorous academic and research training in core areas such as algorithms, artificial intelligence, software systems, and theoretical computer science. Students are expected to maintain a minimum CGPA of 3.0 in coursework. The program equips scholars for impactful careers in academia, cutting-edge research, and leadership roles across the tech industry.

PhD Computer Science students must fulfill the following milestones:

- 3 Semesters of 18 credit hours
- Publish at least one paper in a reputable journal before dissertation defense
- Comprehensive Examination
- Evaluation of thesis by international reviewers
- PhD Proposal Defense
- Dissertation Defense

ELECTIVE COURSES

The PhD Computer Science program offers a wide range of advanced electives, allowing students to pursue specialized research in areas like Machine Learning, Big Data Analytics, Bioinformatics, and Wireless Sensor Networks. The curriculum also includes theoretical courses in Algorithms, Optimization, and Information Systems to support diverse research goals.

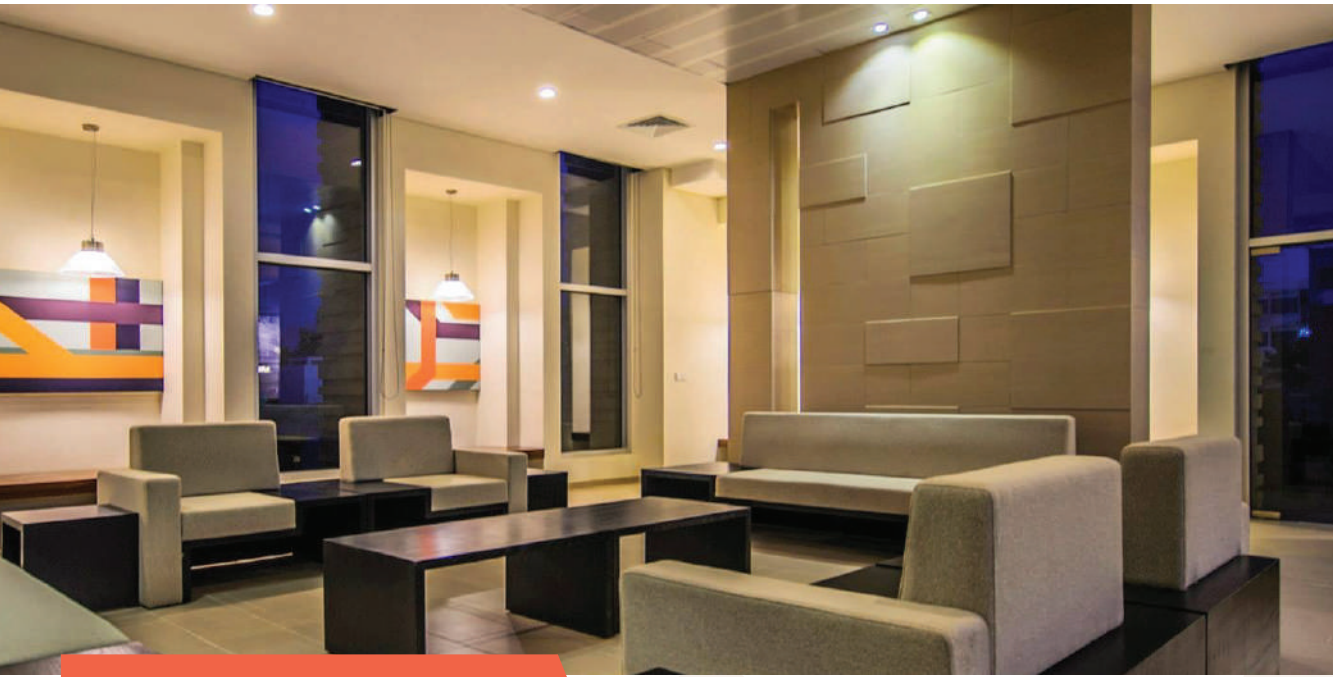
SCHOLARSHIPS, GRANTS & FINANCIAL ASSISTANCE

Fully Funded Program: PhD Computer Science students receive full funding, including 100% tuition waiver and a monthly stipend of up to PKR 100,000.

International Research Grants: Merit-based travel grants are awarded for participation in international research conferences and academic events.

Performance-Based Assistantships: Teaching and research assistantship opportunities are available based on academic performance and full-time enrollment.

Advanced Research Access: Students gain access to cutting-edge labs in AI, Big Data, and Web Science for interdisciplinary research.



ACADEMIC ENVIRONMENT

RESEARCH-DRIVEN LEARNING

Pursue original research in cutting-edge areas like AI, ML, Quantum Computing, and Theoretical Computer Science, guided by experienced faculty. Explore emerging technologies and contribute to impactful academic work.

GLOBAL RESEARCH ENGAGEMENT

Engage in high-quality research that contributes to international publications, while exploring collaborative opportunities with leading global academic institutions and industry partners.

REAL-WORLD RESEARCH IMPACT

Undertake research projects that address theoretical, practical, or societal challenges—advancing knowledge with meaningful contributions across domains.



CAREER OPPORTUNITIES

Graduates of the PhD Mathematics program at SMCS IBA are trailblazers in high-impact academic, research, and analytical roles across global industries, including:

- University Faculty Positions
- Research Scientist Roles
- R&D in Tech and Innovation Companies
- Data Science and AI Specialist
- Policy and Technology Consulting
- Leadership in Academia and Industry Research Centers

ELIGIBILITY CRITERIA

- MS degree in Computer Science or related field from HEC recognized local / foreign university.
- A minimum of 3.0 CGPA on a scale of 4.00 in the last degree.
- Admission is granted based on overall performance in the IBA Aptitude Test, presentation, and a subsequent interview conducted by the admissions committee.



FOR MORE INFORMATION



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PHD - COMPUTER SCIENCE

CODE · CURIOSITY · CHANGE

POSTGRADUATE PROGRAM