

Rida Haya

MS Computer Science | Computer Science Lecturer

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Sargodha, Pakistan

CAREER OBJECTIVE

Dedicated and results-driven Computer Science Lecturer with over 5 years of progressive teaching experience at university and college levels, seeking a position in a government or higher education institution. Committed to leveraging a strong academic background, research expertise in Information Centric Networking and Internet of Things (IoT), and student-centered pedagogy to foster academic excellence and contribute meaningfully to institutional and departmental growth.

ACADEMIC QUALIFICATIONS

MS Computer Science | University of Haripur | 2017 – 2021

- GPA: 3.44 / 4.00
- Thesis: A Connected Dominating Set Theory Based Caching in Information Centric Networking

BS Computer Science | Abbottabad University of Science & Technology | 2013 – 2017

- GPA: 3.33 / 4.00

B.Ed. (Bachelor of Education) | Allama Iqbal Open University, Islamabad | 2023

TEACHING EXPERIENCE

Associate Lecturer (Computer Science) | Capital University of Science & Technology (CUST) | 2022 – Present

- Delivered lectures and supervised laboratory sessions for undergraduate Computer Science programs, ensuring alignment with prescribed syllabi and institutional learning outcomes.
- Conducted continuous student assessments, maintained academic records, and provided individualized academic guidance to enhance student performance.

Theory Courses:

- Programming Fundamentals
- Introduction to Programming (ITP)
- Data Structures
- Graph Algorithms
- Discrete Structures
- Computing and Analytics
- Operating Systems

Lab Courses:

- Programming Fundamentals Lab
- Operating Systems Lab
- Introduction to Programming (ITP) Lab
- Database Management Systems Lab
- Computer Networks Lab

Visiting Lecturer (Computer Science) | University of Sargodha | 2021 – 2022

- Taught undergraduate Computer Science courses; supervised student assessments and academic activities in accordance with university academic standards.

Courses Taught:

- Object-Oriented Programming
- Database Management Systems

Teaching Assistant (BS Program) | University of Haripur | 2017 – 2020

- Assisted faculty in delivering course content and supporting student learning during the MS program.
- Provided academic assistance to students on assignments, quizzes, and semester projects under direct faculty supervision.
- Facilitated lab sessions and guided students through practical coursework, contributing to a structured and productive learning environment.

- Delivered Computer Science theory and practical courses at the intermediate level, building students' foundational programming and ICT competencies.

RESEARCH & PUBLICATIONS

Conference Paper: ICN-Based IoT Caching using Luby Algorithm

MS Thesis: *A Connected Dominating Set Theory Based Caching in Information Centric Networking*

PERSONAL ACADEMIC PROJECTS

Final Year Project (BS)

- **Exam Management System (ASP.NET):** Developed a comprehensive web-based Exam Management System using ASP.NET to manage all core examination processes including student registration, subject/course management, exam scheduling, and automated seating arrangement.

Semester Projects

- **Restaurant Website** — Dynamic website developed using HTML, CSS, and PHP.
- **Library Management System** — Designed and implemented using Object-Oriented Programming principles.
- **Transport Management System** — Built in C++ for efficient vehicle and route management.
- **Library Management Database** — Structured and queried using SQL for data integrity and efficient retrieval.

SUPERVISED FINAL YEAR PROJECTS (FYPS)

- Swipr: A Swipe-Based Item Exchange Platform
- VAST – Vulnerability Analysis and Security Testing
- Food Hub: Food Ordering Website
- Deaf and Dumb Communication System
- Carpool Application
- Auction-Based Car Selling Platform

ADDITIONAL RESPONSIBILITIES

Laboratory Manual Development

- Prepare, maintain, and regularly update laboratory manuals for undergraduate courses to keep content current and aligned with course requirements.

Course Coordination & Academic Documentation

- Coordinate course administration including lesson planning, timetable management, and maintenance of academic documentation per departmental policies.

Course Folder Audit

- Audit course folders to verify completeness and compliance with departmental standards, ensuring materials are organized and ready for accreditation review.

NCEAC Accreditation Committee Member

- Active member of the NCEAC visit preparation committee; contributed to developing Self-Assessment Reports (SARs) and compiling accreditation evidence portfolios.

SRS Documentation for NCEAC Visit

- Authored a comprehensive Software Requirements Specification (SRS) document in support of the NCEAC accreditation visit, demonstrating technical writing and software engineering documentation proficiency.

Patron – JSpark Student Society

- Serving as Patron of JSpark — the CS department's flagship student society — providing mentorship and institutional support to student-led technical events and departmental activities.

Sports Coordinator

- Plan and oversee departmental co-curricular sports activities, promoting student wellness, teamwork, and a balanced academic experience.

Student Advisor

- Provide personalized academic guidance on course selection, study strategies, and professional development to support students throughout their academic journey.

TECHNICAL & PROFESSIONAL SKILLS

Technical Skills

- C++ & Object-Oriented Programming
- Web Technologies (HTML, CSS, PHP)
- SQL & Database Design / Management
- MS Office Suite & Academic Tools
- Technical & SRS Documentation

Professional Skills

- Teaching & Classroom Management
- Communication & Presentation
- Research & Analytical Thinking
- Student Mentoring & Academic Advising
- Accreditation & Quality Assurance

ACHIEVEMENT

- Best Participant Award — Abbottabad University of Science & Technology

PERSONAL INFORMATION

Date of Birth: 23 February 1996

Gender: Female

Nationality: Pakistani

Domicile: Sargodha, Pakistan

REFERENCES

- **Dr. Syed Saqib Raza Rizvi**
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Department of Computer Science
Aerospace and Aviation Campus, Air University Kamra
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- **Dr. Ikram Ud Din, SMIEEE**
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