



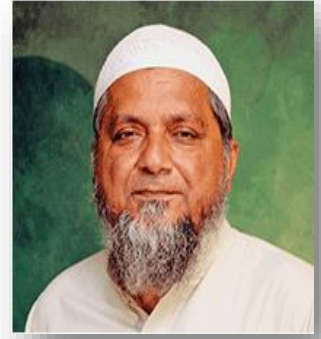
## Idris Mala

*Associate Professor*

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## Qualification

- |                    |                    |      |
|--------------------|--------------------|------|
| • ME (Telecom)     | UIT – HU           | 2006 |
| • MS (Info. Tech.) | Hamdard University | 2002 |
| • BE (Electrical)  | NEDUET             | 1984 |

## Area of Specialization

- Database Systems
- Artificial Intelligence
- Fuzzy Databases
- Advanced Databases Techniques

# Work Experience

Jan. 2005 to Date

**Associate Professor**  
**Computer Systems Engineering**  
**Electrical Engineering Department**  
**Usman Institute of Technology (UIT)**  
**Hamdard University, Karachi**

## Responsibilities

- Faculty Member Jul 2016 – to date  
Computer System Engineering  
Electrical Engineering Department

## Previous

- Coordinator Jul 2015 – June 2016  
Software Engineering Department  
Computer Science Department
- Coordinator Jul 2013 – Jun 2015  
Telecommunication Engineering  
Electrical Engineering Department
- Head of Department Nov 2010 – Jun 2012  
Telecommunication Engineering
- Acting Head of Department Aug 2010 – Feb 2011  
Computer Systems Engineering
- Head of Department Jan 2007 – March 2008  
Industrial Electronics Engineering
- Head of Department Feb. 2005 - Nov. 2005  
Computer Systems Engineering

## Previous

Sept. 2001 to  
Dec 2004

**Associate Professor**  
**Khadim Ali Shah Bukhari Institute of Technology (KASBIT)**  
Computer Science Department

Head of Department Sept. 2001 - Jan. 2004

Dec. 1999 - Jun 2001

**Associate Professor**  
**Usman Institute of Technology (UIT)**  
Computer Systems Engineering

Head of Department Mar. 2000 – Jun. 2001

Jan 1999 - Nov 1999

**Assistant Professor**  
**Sir Syed University of Engineering & Technology**

- July 1998 - Dec 1998 *Visiting Faculty Member*  
*Usman Institute of Technology*  
*Sir Syed University of Engineering & Technology*
- Teaching various courses in BE(CS) Program
- Mar 1996 - June 1998 *Self Employed*
- Software Development of various Organizations
  - Networking & Systems Support
- June 1994 - Feb 1996 *Assistant Manger*  
*Galxo Wellcome Pakistan*  
*Networks & System Administrator*
- Sep 1993 - May 1994 *Self Employed*
- Development of different Software for various companies
  - Maintenance of Software on contractual basis
- Dec 1984 - Aug 1993 *Computer Systems & Services*  
*(Consultant of Software and Hardware)*  
*Manager*

## Courses Taught

### Masters

- Advance Digital Signal Processing
- Broadband Communication
- Radar Communication Systems
- Advance Algorithms
- Advance Database Management System
- Enterprise Databases
- Artificial Intelligence
- Network Security
- Distributed Databases
- Theory of Computing
- Knowledge Management
- Fuzzy Logic and Intelligent Electronic Control Systems
- Advanced Database Techniques
- Object Oriented Databases

## Bachelors

- Digital Signal Processing
- Cellular Communication Systems
- Parallel Processing
- Network Analysis
- Database Management System
- Artificial Intelligence
- Advance Database Management System
- Information Systems
- Computer Graphics
- Object Oriented Programming
- Distributed Databases
- Compiler Construction
- Software Engineering
- Computer Programming Principles
- Digital Image Processing
- Data Warehousing and Data Mining
- Modern Communication Systems
- Fiber Optics Communication Systems
- Advance Communication Systems
- Signals & Systems
- Object Oriented Analysis and Design
- Software Project Management
- Structured Programming
- Network Security
- Operating System
- Internet Programming
- Data Communication and Networks
- Finite Automata
- Advance Topics in Databases
- Distributed Systems
- Digital System Design
- Mobile and Wireless Networks

## Publications & Conferences

1. Idris Mala, Pervaz Akhtar, Syed Saood Zia, Shahid Hafeez Mirza. "Application of Fuzzy Relational Databases in Medical Informatics", *Proceedings of the 14<sup>th</sup> IEEE Multi-topic conference (INMIC)*. Pages 41-44. 2011.
2. Idris Mala, Pervaz Akhter, Syed Saood Zia. "Fuzzy Relational Database Models" *Technocrate Journal of Sciences and Technology, PNEC*, Pages 41-44. Vol. 4, 2012.
3. Syed Saoo Zia, Pervaz Akhter, Idris Mala, Abdul Rehman Memon. "Clinical Decision Support System: A Hybrid Reasoning Approach". *27<sup>th</sup> Multi-Topic International Symposium. IEEEEP*. Karachi, Pakistan. 2012
4. Idris Mala, Pervaz Akhtar, Abdul Rehman Memon, Tariq Javid Ali. "FDSL Tool : An Approach of Fuzzy Relational Database Management System". *Life Science Journal*. Vol. 10. Issue. 2. Pages 1606-1612. 2013.

(ISI Indexed. Impact Factor 0.165)

5. Idris Mala, Pervaz Akhtar, Tariq Javid Ali, Syed Saood Zia. "Fuzzy Rule Based Classification for Heart Dataset using Fuzzy Decision Tree Algorithm based on Fuzzy RDBMS". *World Applied Science Journal*. Volume 28 Issue 9: page 1331-1335, 2013

( ISI Indexed , Scopus Indexed Impact Factor 0.234)

6. Idris Mala, Pervaz Akhtar, Aabdul Rehman Memon, Tariq Javid Ali. "Automatic Generation of Fuzzy Membership Functions based on K-Means and EM Clustering". *Sindh University Research Journal*. Volume 46 Issue 2: page 123-128, 2014  
(ISI Indexed)
7. Syed Saood Zia, Pervez Akhtar, Tariq Javid Ali Mughal and Idris Mala. "Case Retrieval Phase of Case-Based Reasoning Technique for Medical Diagnosis". *World Applied Science Journal*. Volume 32 Issue 3: page 451-458, 2014.
8. Syed Saood Zia, Pervez Akhtar, Rashid Hussain and Idris Mala. "CBR: Cycle, Framework and Applications". *World Applied Science Journal*. Volume 32 Issue 7: page 1349-1355, 2014.
9. Tariq Javid Ali, Pervez Akhtar, M. Faris, Idris Mala and Syed Saood Zia, "Implementation of Discrete Fourier Transform and Orthogonal Discrete Wavelet Transform in Python" SZABIST Multidisciplinary International Conference 2016, Dubai, U.A.E.