

# Dr. Kavita Tabbassum

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## WORK EXPERIENCE:

17-08-2024- To date <b>Associate Professor</b>	<b>Information Technology Centre, Sindh Agriculture University Tandojam.</b>	1.5 Months
Nov 2015 – 16-08-2024 <b>Assistant Professor</b>	<b>Information Technology Centre, Sindh Agriculture University Tandojam.</b>	9 years
Jan 2004- Nov 2015 <b>Lecturer</b>	<b>Information Technology Centre, Sindh Agriculture University Tandojam.</b>	11 Year
March 2002 – April 2003 <b>Demonstrator/Instructor</b>	<b>Department of Electronics Engineering, Mehran University of Engineering &amp; Technology, Jamshoro</b>	1 year

## EDUCATION:

YEAR	INSTITUTION	QUALIFICATION
2020	Mehran U.E.T. Jamshoro.	Ph.D. (Electronic Engineering)
2013	Mehran U.E.T. Jamshoro.	M.E. (Comm. Systems & N/W)
2002	Mehran U.E.T. Jamshoro.	B.E. (Electronics)
1996	Govt. Nazareth Girls College, Hyderabad.	Intermediate (Pre-Engineering)
1994	Saint Mary's Convent High School, Hyderabad	S.S.C (Science)

## MAJOR RESPONSIBILITIES:

- HEC approved PhD Supervisor.
- Focal Person (Female) of Sexual Harassment Committee SAU.
- Member of Quality Enhancement Cell (QEC) of ITC.
- Supervised more than 30 MSIT (Hons) students and 60 BSIT(Hons) students.
- Teaching different subjects of MSIT (Hons) & BSIT (Hons) (both Theory & Practical).
- Focal Person of Google Developer Students Club.
- Member of NCEAC Accreditation Committee
- Member of conference committees.
- Member of MSIT (Hons) Quality Enhancement Cell
- Student Counsellor
- Girls Representative of SAU
- Member of Board of Studies of MSIT (Hons) & BSIT (Hons)
- Member of Teachers Students Organizing Committee
- Coordinator of undergraduate programs
- Factotum/Head Invigilator in Undergraduate and Post graduate Examinations
- Supervisor of BSIT(Hons) and MSIT (Hons) final year Research Projects/Thesis
- Worked on different trainers and made their handouts etc

## PROJECTS SUPERVISED:

### MSIT (Hons):

- Farm Animal Health Monitoring Application with Smart Phone and IoT Technology.
- SFTP for secure and reliable data transfer in Network.
- Performance Analysis of QoS parameters for MANET routing Protocols Via NCTUns Simulator.

- A Survey on Different Approaches for Energy Conservation in Wireless Sensor Networks.
- Study of Joint Reactive Jammer Detection and Localization in Enterprise Wi-Fi Network.
- A Cross-Layer approach for Robust and Dynamic Data Aggregation.
- Compensation of transmission impairments in fiber optics.
- Enhancing Cancer Diagnosis Precision through Image Data Mining and Artificial Intelligence: A Comprehensive Optimization Approach.
- Power Optimization Of High Pass Filter (Ohpf) Using Matlab And Vivado Software.
- Hybrid Technique for Predicting Chronic Kidney Disease Using Hard Voting Classification.
- Advanced Research on Honeypot and Deception techniques.
- Wireless Network Vehicle Detection and Intelligent Transport System.
- Network Penetration Test at Tl-Muet Intranet and Proposed Solution.
- Scratchpad-Memory Management for Multi-Threaded Applications On Many-Core Architectures.
- Scratchpad-Memory Management in Terms of Energy Consumption Parameters.
- Challenges in Scratchpad Memory Management for Multicore Processor.

### **BSIT (Hons):**

E-Quran Tutorial	Bio- Metric Security of ITC
Text Message Encryption and Decryption	Print Management System
Domain Environment with FTP Authentication	Online Shopping Store
All SIMS Load In One Click	IT WEBPORTAL/ IT Alumni
Real-time Mouse Control Through Multiple Colored Object Recognition	Online student portal
Online Admissions Entry Test System	Lab Management System
Online BUS Booking	House Price Prediction
Maintenance Service Provider	Food Spoilage System
AI Smart Emotion Recognition Detection System	

### **TRAININGS/COURSES/SEMINARS:**

- Two Day Faculty entrepreneurial development program RISE organized by National Incubation Centre, Hyderabad on 4<sup>TH</sup> and 5<sup>th</sup> October 2023.
- Staff Development Course under the scheme National Academy of Higher Education held from May 16- June 11, 2005 at Sindh Agriculture University, Tandojam.
- The training workshop on Microteaching Skills and Techniques held on February 22-25, 2012 organized by Sindh Agriculture University, Tandojam in collaboration with learning Innovation Division, Higher Education Commission, Islamabad.
- Training course entitled “WEATHER SATELLITE AND RADAR METEOROLOGY”, conducted by experts from PAKISTAN METEOROLOGICAL DEPARTMENT from 25-06-2001 to 24-07-2001 held at Pakistan meteorological Department, University Road, Karachi.
- A course on UNDERSTANDING OF MATLAB TOWARDS THE SOLUTION OF PHYSICAL PROBLEMS from August 27-29, 2002 organized by the director of continuing Education, Mehran University of Engineering & Technology, Jamshoro.

## CERTIFICATES/HONOR

- Shield of Appreciation in PAK-CHINA FRIENDSHIP WEEK 2011, organized by teachers Students Organizing Committee, held on May 21-25, 2011 at Sindh Agriculture University, Tandojam.
- Certificate of Appreciation in PAK-CHINA FRIENDSHIP WEEK 2011, organized by teachers Students Organizing Committee, held on May 21-25, 2011 at Sindh Agriculture University, Tandojam.
- Certificate of appreciation in International Conference on Agriculture Food and Animals Sciences scheduled to be held on 27<sup>th</sup> to 29<sup>th</sup> Novemeber, 2007 at Sindh Agriculture University, Tandojam.
- Certificate of appreciation for outstanding contribution during 3<sup>rd</sup> National Conference on Agriculture and Animal Sciences, held from 21<sup>st</sup> - 23<sup>rd</sup> November 2006 at Sindh Agriculture University, Tandojam.
- Certificate of appreciation for outstanding contribution during National Conference on Agricultural and Animal Sciences, held from 23<sup>rd</sup> – 25<sup>th</sup> November 2004 at Sindh Agriculture University, Tandojam.

## PUBLICATIONS DETAILS:

Sr. #	Name of Authors	Title of Research Paper	Name of Journal	Category of Journal		Year	Vol#
				Category of Hec Recognized Journal	International Journal with ISI Indexed		
1	Fouzia Talpur, <b>Kavita Tabbassum Khahro,</b> Muhammad Irfan, Kirshan Kumar Lohana, Muhammad Yaqoob Koondhar,	Exploring Nexus among Big Data Analysis, Artificial Intelligence and Operational Performance	Kurdish Studies	Yes	Yes W (I.F:1.5)	2024	12
2	<b>Kavita Tabbassum,</b> Shahnawaz Farhan Khahro , Saima Shaikh, Farah Naveen Issani, Suhni Abbasi, Hina Chandio	Scratchpad Memory Management Random Sampling Algorithm for Multi-core Processor	The Asian Bulletin of Big Data Management (ABBDM)	Yes		2024	4

3	<b>Kavita Tabbassum</b> , Shahnawaz Farhan Khahro, Suhni Abbasi, Saima Shaikh, Farah Naveen Issaani, Hina Chandio	Leveraging Scratchpad Memory in a Hierarchical Architecture for Multicore	The Asian Bulletin of Big Data Management (ABBDM)	Yes		2024	4
4	<b>Kavita Tabbassum</b> , Shahanwaz Talpur, Shahnawaz Farhan Khahro	An Interactive and Dynamic Scratchpad Memory Management Strategy For Multi-Core Processors	Microprocessors and Microsystems		I.F: 3.51	2022	
5	<b>Kavita Tabbassum</b> , Shahnawaz Farhan Khahro, Suhni Abbasi, Zulfiqar Maher, Saima Tunio	Random Sampling SPM Management Algorithm for Single Processing Core	International Journal of Scientific & Technology Research	Yes		2021	10(6)
6	Suhni Abbasi, <b>Kavita Tabbassum</b> , Hameedullah Kazi, saima Tunio, Sirajuddin Qureshi	Investigating Student's Obstacles While Learning Object Orientation	International Journal of Scientific & Technology Research	Yes		2021	10(6)
7	<b>Kavita Tabbassum</b> , Shahnawaz Talpur, Shahnawaz Farhan Khahro	State of art innovative technique for management of scratchpad memory (scratch)	Microprocessors and Microsystems		I.F : 3.51	2019	70
8	<b>Kavita Tabbassum Khahro</b> , Shahnawaz Talpur. and Sanam Narejo	Management of Scratchpad Memory Using Programming Techniques	Mehran University Research Journal of Engineering & Technology	Yes		2019	38(2)
9	<b>Kavita Tabbassum Khahro. and Shahnawaz Talpur</b>	Managing Scratchpad Memory Architecture for Lower Power Consumption Using Programming Techniques	<i>Asian Journal of Applied Science and Engineering</i>	Yes		2018	7(2)

10	Khahro Shahnawaz Farhan, <b>Tabbassum Kavita</b> , Talpur Shahnawaz, Alvi Mohammad Bux, Liao Xiaozhong, Dong Lei	Evaluation of solar energy resources by establishing empirical models for diffuse solar radiation on tilted surface and analysis for optimum tilt angle for a prospective location in southern region of Sindh, Pakistan”,	<i>International Journal of Electrical Power and Energy Systems,</i>		Yes	2015	64
11	Khahro Shahnawaz Farhan, <b>Tabbassum Kavita</b> , Soomro Amir Mahmood, Liao Xiaozhong, Alvi Mohammad Bux, Dong Lei, Manzoor Farhan,	Techno-economical evaluation of wind energy potential and analysis of power generation from wind at Gharo, Sindh Pakistan	<i>Renewable and Sustainable Energy Reviews</i>		Yes (IF: 15.9)	2014	35
12	Khahro, Shahnawaz Farhan, <b>KavitaTabbassum</b> , Amir Mahmood Soomro, Lei Dong, and Xiaozhong Liao	Evaluation of wind power production prospective and Weibull parameter estimation methods for Babaurband, Sindh Pakistan	Energy Conversion and Management		Yes (IF:10.4)	2014	78
13	Khahro, Shahnawaz Farhan, Amir Mahmood Soomro, <b>KavitaTabbassum</b> , Lei Dong, and Xiaozhong Liao	Assessment of wind power potential at Hawksbay, Karachi Sindh, Pakistan	TELKOMNIKA Indonesian Journal of Electrical Engineering		Yes	2013	11(7)
14	Talpur, Shahnawaz, Imran Ali Qureshi, Shahnawaz Farhan Khahro, <b>KavitaTabbassum</b> , Erum Saba	Intra-Inter Triplet Object Interaction Mechanism in Triplet-Based Hierarchical Interconnection Network.	TELKOMNIKA Indonesian Journal of Electrical Engineering		Yes	2013	11(7)

15	Khahro S. F., <b>Tabbassum K</b> , Soomro A. M., Dong L, Xioazhong L	Evaluation of wind power production prospective at Baburband, Sindh Pakistan	Fourth International Renewable Energy Congress (IREC 2012)		Yes	2012	
16	SOOMRO, AM, AA SYED, AN KHIZER, SF KHAHRO, and <b>K.</b> <b>TABBASSUM.</b>	An Isolated Boost-Three Level Bi-directional DC-DC Converter with Phase Shift PWM	Sindh University Research Journal-SURJ (Science Series)	Yes		2015	47
17	SOOMRO, AM, AN KHIZER, AA SYED, SF KHAHRO, and <b>K.</b> <b>TABBASSUM</b>	Multiphase Boost-Half-Bridge DC-DC converter and its Working Mode Analysis.	Sindh University Research Journal-SURJ (Science Series)	Yes		2015	47