

Curriculum Vitae

1. i. **Name** : **Dr. G. M. Mir**
Topic of Ph.D : **Realization of QoS in Wireless Mobile Networks Using Fuzzy Logic**
 ii. **Designation** : Professor and Head in Division of Basic Engineering and Applied Science College of Agricultural Engineering and Technology of Kashmir SKUAST- K, Shalimar, Srinagar
 :Served as Head Information Technology (ARIS) Agricultural Research Information System
 iii. **Fathers Name** : Muhammad Sultan Mir
 iv. **Address**

- a) **Official:** Division of Basic Engineering and Applied Science, College of Agricultural Engineering. S. K. University of Agricultural Sciences and Technology, Shalimar, Srinagar-190025
 Phone: 2461 258, 2461259, 2461 346, Ext 3652

Residential

Permanent : Ganderbal, Near Power Generating Station

Present : 90 feet road, Awanta Bhawan Lane, Soura, Srinagar-190011

- v. **Date of Birth** : 10th of July 1965.
 vi. **Co-Guide** : two Ph. D Students
 vi. **Educational Qualifications**

B. Sc	1988	University of Kashmir	58%
M. Sc	1992	Department of Electronics & Instrumentation Technology, University of Kashmir	72.5%
Ph. D	2010	-do-	

02. **Teaching Experience**

Designation	Institution	Period of Employment
Lecturer	Department of Electronics & Instrumentation Technology, University of Kashmir	May 17 th 1993 to 27 th June 2001 (08 years, 01 month, 10 days)
Assistant Professor	Division of Agricultural Engineering (Electronics and Instrumentation Section) S. K. University of Agricultural Sciences and Technology of Kashmir, Shalimar, Srinagar	28 th June 2001 to 20 th December 2010 (08 years 05 months, 20 days)
Associate Professor	-do-	21 st December 2010 to 21 st December 2016
Professor	-do-	28 th June 2016 onwards

03. Assignments

- i. Taught different courses especially Circuit Analysis and Control System Engineering at PG Level in Department of Electronics and Instrumentation Technology University of Kashmir
- ii. Taught Computer Oriented Numerical and Statistical Methods to PGDCA Students in Department of Electronics and Instrumentation Technology University of Kashmir
- iii. Supervised Hardware Software Labs in Department of Electronics and Instrumentation Technology University of Kashmir
- iv. Conducted Seminars as part of Course Structure at PG level
- v. Guided students in their project work at PG Level in Department of Electronics and Instrumentation Technology University of Kashmir
- vi. Teaching basic Sciences, Physics, Electronics, Electrical Machinery and Power Utilization to B. Tech students and Instrumentation to M Tech students in Division of Agricultural Engineering (Electronics and Instrumentation Section) S. K. University of Agricultural Sciences and Technology of Kashmir, Shalimar, Srinagar
- vii. Guiding B. Tech students in their project work related to automation in agricultural activities
Presently Head IT and Head Basic Engineering and Applied Science College of Agricultural Engineering and Technology.
- viii. Installed Video Conferencing Systems at all the Faculties of SKUAST-K, and executed LAN at FoA Wadura, FoFy Rangil, Sericulture Mirgund, FoF Benhama.
- ix. Connected all the hostels at Main Campus Shalimar, FVSc &AH, FoFy, and FoA to Internet through WiFi access points.
- x. Installed Biometric Attendance System at Administrative Block, all the Faculties, Stations, Units and KVKs across University
- xi. Installed CCTV surveillance System at main Campus Shalimar.
- xii. Executing Academic and Examination management System of UMS which has been launched in xxv Silver Jubilee Regional Committee meeting held in our University

04. Quality Improvement Programmes

- i. Attended six weeks short term course on microprocessors and its applications at T. T. T. I, Chandugarh in 1992, and carried out a project work on “Data Input Output (DIO) card for personal Computer” and also worked on microprocessor-controlled Tachometer, Stepper motor control and other interfacing devices.
- ii. Attended four weeks UGC sponsored General Orientation Course held at Academic Staff College University of Kashmir
- iii. Attended short term course for Research Methodology from 15th of Nov to 25th of Dec 1999, conducted by Centre for Adult, Continuing Education and Extension University of Kashmir.
- iv. Attended 21 days training programme regarding Testing of Agricultural Machinery Utilization Modern Instrumentation wef 29 Nov, 2003 at Central Institute of Agricultural Engineering Bhopal
- v. Attended 21 days training programme regarding Web Based Application using NET technology from 22nd Nov to 12th Dec 2006 at Indian Agricultural Statistics Institute New Delhi.
- vi. Attended 21 days training programme from Dec1- Dec 21, 2009 regarding Real Time Irrigation management using DSS and Electronic Control for Precision Agriculture in Vertisols, at Central Institute of Agricultural Engineering Bhopal.
- vii. Attended four weeks UGC sponsored General Orientation Course from Nov 22 to Dec 20, 2010, held at Academic Staff College University of Kashmir

05. Major Projects as PI

- i. Completed successfully as PI, DST Sponsored project titled as “Electronic Saffron Corm Grader and Walnut Grader.

- ii. Completed successfully as DST Sponsored project titled as “Design and Development of Efficient Electronic Saffron Dryer using Infra-Red Heating”
- iii. Completed successfully as Co-PI, Farmers Participatory Action Research Programme (FPARP).
- iv. Ongoing DST sponsored Project titled as “Conversion of Fuel Operated Vehicle to Electric Operation in Hilly Terrain”
- v. Ongoing project on “Low cost Automation of Drip Irrigation”.

06. Mini Projects

As PI completed

- i. Developed Low-Cost Electronic Saffron Dryer approved in 35th Research Council Meeting (RCM).
- ii. Reshaping of Existing boxes for large packaging volume approved in 37th RCM, AE-40.2.4

As Co-PI Completed

- i. Design and Fabrication of efficient low wattage, Electronic Dryer using Infra-Red/ Induction heating approved in 37th RCM
- ii. Low-Cost Automation of Temperature and Humidity for polyhouse approved in 37th RCM, AE-37.2.3
- iii. Design and Fabrication of Fruit Picker/Harvester approved in 40th RCM, AE-40.2.1
- iv. Low-Cost Solar Dryer approved in 46th RCM. AE-45.3.3

07. Transfer of Technology

- i. Saffron Corm Grader and Walnut Grader
- ii. Low Cost Electrical heating Saffron Dryer
- iii. Walnut Cracker
- iv. Low cost vegetable solar Dryer

08. List of Publications (Last 5 years)

1. G M Mir, A A Balkhi, Irshad A “Conversion of Fuel-Operated Tractor to Electric Operation: Design, Feasibility and Performance Analysis”, International Journal for Multidisciplinary Research (IJFMR), Volume 7, Issue 4, July-August 2025, pp 1-5.
2. G M Mir, “Ego Threat and Reactive Aggression: A Psychological Analysis”, International Journal of Science and Research (IJSR), Volume 14 Issue 5, May 2025, pp-1257-1262.
3. G M Mir, “Understanding the Flow of Energy: Exploring its Role in Human Behaviour, Emotion, and Inner Balance”, International Journal of Science and Research (IJSR), Volume 14 Issue 5, May 2025, pp-583-586.
4. Altaf Ahmad Balkhi, G M Mir, Yogesh Pandey, Mudasir Ali, “Application of Solar Tracker for improvement in Solar Energy conversion efficiency (SECE)”, Book chapter: Current Trends in Agriculture & Allied Sciences (Volume 3), Publisher: S P Publishing, India, 2025
5. A A Balkhi, G M Mir, Arbin Lateef, Riyaz Ashraf “Development of Light Weight Solar Dryer and Optimization of Drying Process for Bottle Gourd”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 12 Issue VII July 2024, pp-1213-1222.
6. A. A. Balkhi, G. M. Mir, Shafqat Bashir, Riyaz Ashraf, “Auto Solar Tracker for Harnessing Maximum Solar Energy” International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 11 Issue XI Nov 2023, pp-489-498.

7. Basharat Ashan, M. Muzamil, Jagvir Dixit, Shahzad Faisal, Mudasir Ali, Showkat Rasool, G. M. Mir, "Assessment of soil compaction due to the motion of prime mover and tillage machinery in temperate region of Kashmir Valley" *Agric Eng Int: CIGR Journal*, Vol. 25, No.2, June, 2023, pp-89-100.
8. A. A. Balkhi, G. M. Mir, Yogesh Panday, Riyaz Ashraf "Agricultural for Better Yield" *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, Volume 11 Issue XII Dec 2023, pp-165-168.
9. A. A. Balkhi, G. M. Mir, Arbin Lateef, Riyaz Ashraf "Development of Light Weight Solar Dryer and Optimization of Drying Process for Bottle Gourd" *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, Volume 11 Issue XI Nov 2023, pp- 489-498.
10. Altaf A. Balkhi, Javaid A. Sheikh, Ishfaq B. Sofi, Zahid A. Bhat, and G. M. Mir, "A New Method of Intelligent Handover management in 5G Communication Networks-IHMCM" *Journal of Communications*, 2023.
11. Altaf A. Balkhi, Javaid A. Sheikh, Ishfaq B. Sofi, Zahid A. Bhat, and G. M. Mir, "Minimization of Handover Decisions with Quality of Service Using Fuzzy Logic Prediction Model", *Journal of Communications* vol. 18, no. 2, February 2023, pp-129-134.
12. G M Mir, F A Nehvi, Imtiyaz A Zargar and Sher A Dar, "Process Optimization of Vacuum Drying of Saffron", *International Journal of Current Science*, Vol 12, issue 4, Nov-2022, pp-793-798.
13. Shahzad Faisal, Mahendra Kumar Sharma, G.M. Mir, Mavish Manzoor and Gazala Altaf, "Optimization of Process Parameters for Osmo-Solar Poly Tunnel Drying of Apple", *Progressive Research – An International Journal*, Vol. 8 (Special Issue), 2022, pp-635-640.
14. A. A. Balkhi, Javid A Sheikh, G. M. Mir, Zahid A. Bhat, Ishfaq Bashir, "Mobile Traffic Management in Congested Cells using Fuzzy", 3rd International Online Conference on Emerging Trends in Multi-Disciplinary Research "ETMDR-2022" pp 437-441.
15. Itfaq Ahmad Mir, G. M. Mir and Mudasir Ahmad Makhdoomi, "A Review of Efficient Dynamic Key Management Scheme for Heterogeneous Wireless Sensor Networks", *Oriental Journal of Computer Science and Technology*, Vol. 13, No. (2) 2021, pp-1-9.
16. A A Balkhi, G M Mir, J A Sheikh, "Handover Call Management between Two Congested Neighboring Cells using Fuzzy Logic" *International Research Journal of Engineering and Technology (IRJET)* e-ISSN: 2395-0056 Volume: 08 Issue: 07, July 2021 www.irjet.net p-ISSN: 2395-0072.
17. A A Balkhi, G M Mir, Tahir Wahid, "Conjunctive Use of Low-Cost Polyhouse for Multicrop Drying", *International Research Journal of Engineering and Technology (IRJET)*, Volume: 08 Issue: 08, Aug 2021, pp-3764-3766.
18. Mehak-I Aisha, G. M. Mir "Education the Way Forward for Modernizing Socioeconomic status of Tribal (Gujjar and Bakarwals) of Jammu and Kashmir: An Overview" *International Journal of Advances in Engineering and Management (IJAEM)* Volume 3, Issue 2 Feb 2021, pp: 411-417.
19. Mehak-I Aisha, G. M. Mir, "Climate Change and Pathways to Self-Reliant India: Opportunities and Challenges for Sustainable Development" during 15-16 March 2021. Organized by the Department of Geography, Jamia Millia Islamia University (JMI), New Delhi.