



Name	Dr. M. R. Khan
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Qualification	Ph. D NIT (GEC Raipur), 2008 Pt. R S University, Raipur M.Tech. (Telecommunication System Engg.) IIT Kharagpur 2000 B. E. (Electronics & Telecommunication)
Current Position	Principal Government Engineering College Raipur
Professional	Professor (Electronics & Telecommunication) and In-charge Principal since August 2019. Professor since 01/01/2009. Reader (Associate Professor) since April 2000 Appointed as Lecturer (Assistant Professor) on 17 <sup>th</sup> October 1986.
Administrative	Principal Govt. Engg. College Raipur More than 5 years of Experience at the post of Director, DTE and Principal Govt. Engg. College Raipur & Jagdalpur

#### Patents:

1. Nitesh Kumar Sharma, Shanti Rathore and **M.R. Khan**. Approximate Vedic Multiplier for Increase in Speed, Accuracy and Reduce in Power, Area. (AusPat2020101564)
2. Deepesh Kumar Gautam, Nitesh Kumar Sharma and **M.R. Khan**. Soil Salinity Degradation Estimation by Regression Algorithm Using Agricultural Internet of Things. (AusPat2020102098)
3. Preesat Biswas, **M.R. Khan** and Shanti Rathore. To Design Modern digital Communication System Various QAM Reduce SNR and BER Using Raised Cosine Filter. (AusPat2020102072)
4. Himanshu Agrawal, **M.R. Khan** and Jainendra Jain Rain water Protection Mechanism (AusPat2020102559)
5. Himanshu Agrawal, **Dr. M.R. Khan**, Dr. Jainendra Jain, Dr. Vinay Kumar Singh. KAVYA – The Sky Hanging Showcase (AusPat2020102946)
6. Himanshu Agrawal, **Dr. M.R. Khan** and Dr. Jainendra Jain. Multi Utility Box for Bikes (AusPat2020102739)
7. Himanshu Agrawal, **Dr. M.R. Khan** and Dr. Jainendra Jain. MAXINE-The Modular Cooling Pad for evaporative cooling Systems (AusPat2021100626)
8. Preesat Biswas, **M.R. Khan**, Shanti Rathore and Nitesh Kumar Sharma. CORDIC Based QR Decomposition for MIMO (AusPat 2021100315)

#### Books:

1. **Dr. M.R. Khan**, Nitesh Kumar Sharma and Deepesh Kumar Gautam, “A Novel Approach of Ancient Vedic Mathematics in Engineering.” ISBN: 9789388672214.
2. **Dr. M.R. Khan**, Nitesh Kumar Sharma, Preesat Biswas (2021). “Basic Adaptive Signal Processing and Its MATLAB Simulation” ISBN 9781913482756 Rubicon Publication, London, England.
3. **Dr. M.R. Khan**, Nitesh Kumar Sharma, Preesat Biswas (2021). “Computers and Communication” ISBN 9781913482749 Rubicon Publication, London, England.

4. **Dr. M.R. Khan**, Nitesh Kumar Sharma, Preesat Biswas (2021). "Fundamental of Computers with Hardware and Software" ISBN 9783964922250 Weser Publication, Zittau, Germany.
5. **Dr. M.R. Khan**, Nitesh Kumar Sharma, Preesat Biswas (2021). "Basic Computer Literacy and Its Application Domains" ISBN 9783964922243 Weser Publication, Zittau, Germany.
6. **Dr. M.R. Khan**, Lukesh Kumar Sahu, Nitesh Kumar Sharma "A Practical Approach of Electrical Machine" ISBN 9781913482688 Rubicon Publication, London, England.
7. Nitesh Kumar Sharma, **Dr. M.R. Khan**, Dr. Shanti Rathore "Basics of Linar and Non-Linear Control Systems" ISBN 9781913482640 Rubicon Publication, London, England.
8. **Dr. M.R. Khan**, Nitesh Kumar Sharma, Preesat Biswas, Dr. Shanti Rathore "Adaptive Modeling of Stochastic Signal with Wiener and LP filter" ISBN 9783964922472 Weser Publication, Zittau, Germany.
9. Preesat Biswas, Nitesh Kumar Sharma, **Dr. M. R. Khan**, Dr. Shanti Rathore "Adaptive Signal in model of Stochastic Processes, Wiener Filters & Linear Prediction" ISBN 9783964922472 Weser Publication, Zittau, Germany.
10. Preesat Biswas, Dr. Jainendra Jain, **Dr. M.R. Khan** "Adaptive Signal Processing Least Square Algorithms with MATLAB Volume-II" ISBN 9781913482626 Rubicon Publication, London, England.
11. Preesat Biswas, **Dr. M.R. Khan**, Dr. Jainendra Jain "Adaptive Signal Processing Least Square Algorithms with MATLAB Volume-III" ISBN 9783964922496 Weser Publication, Zittau, Germany.
12. Nitesh Kumar Sharma, Deepesh Kumar Gautam, **Dr. M.R. Khan** "Basic Electronics (मूलभूत इलेक्ट्रॉनिक्स)" ISBN 9788195102518 Deepak Prakashan Gwalior, India

### Book Chapters:

1. Chapter Name- Amplitude Modulation
  - a. Authors- **Dr. M.R. Khan**, Nitesh Kumar Sharma, Dr. Shanti Rathore, Deepesh Kumar Gautam and Preesat Biswas
  - b. Book- Advances in Multidisciplinary and Current Research (Volume-8) ISBN 9781913482657.
2. Chapter Name- Noise in AM Systems
  - a. Authors- **Dr. M.R. Khan**, Nitesh Kumar Sharma, Dr. Shanti Rathore, Deepesh Kumar Gautam and Preesat Biswas
  - b. Book- Research Trends in Applied Research (Volume -8) ISBN 9783964922427.
3. Chapter Name -Noise in FM System
  - a. Authors - **Dr. M.R. Khan**, Nitesh Kumar Sharma, Dr. Shanti Rathore, Deepesh Kumar Gautam and Preesat Biswas
  - b. Book- Research Trends in Multidisciplinary Research and Development (Volume - 7) ISBN 9783964922434.
4. Chapter Name- VLSI Design
  - a. Authors- **Dr. M.R. Khan**, Nitesh Kumar Sharma, Nitesh Kumar Narang, Dr. Shanti Rathore and Deepesh Kumar Gautam.
  - b. Book- Recent Advances in Academic Research (Volume-3) ISBN 9783964922410.
5. Chapter Name- Angel Modulation
  - a. Authours- **Dr. M.R. Khan**, Nitesh Kumar Sharma, Dr. Shanti Rathore, Deepesh Kumar Gautam and Preesat Biswas.
  - b. Book- Current Trends in Multidisciplinary Research (Volume-5) ISBN 9781913482657
6. Chapter Name-Block chain: IoT security, privacy and resource challenges
  - a. Authours- **Dr. M.R. Khan**, Probira Kumar Sethy, Chanki Pandey, Santi Kumari Behera, Sharad Chandra Rahpoot.
  - b. Book name: Recent Trends in Communication and Electronics (1<sup>st</sup> Edition -2021) CRC Press, Page No-5, eBook ISBN – 9781003139838
7. Chapter Name- An automated chilli yield estimation approach based on image processing

- a. Authours- **Dr. M.R. Khan**, Probira Kumar Sethy, Chanki Pandey, Jaya Vishwakarma, BihutiBhusan Nayak, Santi Kumari Behera, Preesat Biswas.
- b. Book name: Recent Trends in Communication and Electronics (1<sup>st</sup> Edition -2021)  
CRC Press, Page No-5, eBook ISBN – 9781003139838.

#### Journals:

1. Neha Shivhare, Dr. Shanti Rathod, **Dr. M. R Khan**, “Early Dementia detection using 1D CNN Model”, Journal of Scientific Research in Allied Sciences (JUSRES) Vol. 07, Issue 5, Oct 2021, Pp 152-164, ISSN 2455-5800.
2. Neha Shivhare, Dr. Shanti Rathod, **Dr. M. R Khan**, “Cognitive Impairment Detection Using GRU” Review of Research, Vol 11, Issue 3, Dec 2021, ISSN 2449-894X.
3. Neha Shivhare, Dr. Shanti Rathod, **Dr. M. R Khan**, Aditi Rai, “Automatic Speech analysis of Conversations for Dementia Detection Using Bi-LSTM Model”, Book chapter in CRC Press ,Taylor & Francis Group book titled “ Swarm Intelligence and Machine Learning: Applications in Healthcare”(Accepted)
4. Nitesh Kumar Sharma, Deepesh Kumar Gautam, Lukesh Kumar Sahu, **M. R. Khan**, Jainendra Jain "CORDIC algorithm for fixed point." Materials Today: Proceedings (Elsevier)
5. Nitesh Kumar Sharma, Deepesh Kumar Gautam, Lukesh Kumar Sahu, **M. R. Khan**, "First wave of covid-19 in India using IoT for identification of virus." Materials Today: Proceedings (Elsevier)
6. Nitesh Kumar Sharma, Deepesh Kumar Gautam, Shanti Rathore, **M. R. Khan**, "CNN Implementation for Detect Cheating in Online Exams During COVID-19 Pandemic: A CVRU Perspective." Materials Today: Proceedings (Elsevier)
7. C Pandey, PK Sethy, **M. R. Khan**, SK Behera, Vijaykumar K and S Panigrahi (2021). A Cost-Effective Computer-Vision Based Breast Cancer Diagnosis. The Journal of Intelligent and Fuzzy Systems, IOS Press. DOI: 10.3233/JIFS-189848 (SCI Indexed)
8. PK Sethy, SK Behera, A Komma, C Pandey and **M. R. Khan**. “Computer aid screening of COVID-19 using X-ray and CT scan images: An inner comparison”. Journal of X-Ray Science and Technology. 1 Jan.2021: 1 – 14. DOI: 10.3233/XST-200784. (SCI Indexed).
9. Nitesh Kumar Sharma, Shanti Rathore, **M. R. Khan**, “A New Speed Power Area and Accuracy (SPAA) Aware Cordic Processing Unit By Vedic Mathematics For The Application of Computer Vision.” Turkish Journal of Computer and Mathematics Education (TURCOMAT), Vol.(12) (2021) 3199-3209. (Scopus)
10. Nitesh Kumar Sharma, **M.R. Khan**, Dr. Jainendra Jain, Implementation in Direct Digital Synthesizers (DDS) Based on CORDIC Algorithm” Turkish Journal of Computer and Mathematics Education (TURCOMAT), Vol.(12) (2021) 3161-3165. (Scopus)
11. Shanti Rathore, Nitesh Kumar Sharma, **M. R. Khan** “Multipath Reliable Routing Using Cluster Based Communication” Turkish Journal of Computer and Mathematics Education (TURCOMAT), Vol.(12) (2021) 3210-3215. (Scopus)
12. Nitesh Kumar Sharma, Shanti Rathore, **M. R. Khan**, “Novel Coordinate Rotation Digital Computer (CORDIC) Algorithm by Ancient Vedic Mathematics Concept and Its Use on Computer Vision Applications.” International Journal of Computer Science and Network Security, Vol.(20), (2020):50-57. (ESCI)
13. Nitesh Kumar Sharma, Shanti Rathore, **M. R. Khan**, Implementation of Multiplier by CORDIC Algorithm." International Journal of Information Technology and Electrical Engineering. Vol.(9), (2020):67-72.
14. Nitesh Kumar Sharma, Shanti Rathore, **M. R. Khan**, “CV(Computer-Vision )System By CORDIC Processing Unit” Journal of Critical Reviews. Vol.(07), (2020):2235-2241.
15. Nitesh Kumar Sharma, Shanti Rathore, **M. R. Khan** “Analysis of Radix-4 FFT BYCORDIC Algorithm.” Journal of Emerging Technologies and Innovative Research. Vol.(6), 2019:1560-1564.
16. Preesat Biswas, Shanti Rathore, **M. R. Khan** “A Simulation Performance of 5G

- Systems applying UPMC (Universal Filtered Multicarrier) Study” Turkish Journal of Computer and Mathematics Education. Vol (12) No.2,2021: 3176-3183(Scopus)
17. Sharad Chandra Rajpoot Prashant Singh Rajpoot, **M. R. Khan** "Losses Mitigation & Theft Detection of Electricity by Automatic Controlled System with OFC Communication in Distribution Line" International Journal of Engineering Research and Applications (IJERA), vol. 9, no. 11, 2019, pp 42-47
  18. Nitesh Kumar Sharma, Deepesh Kumar Gautam, **M.R. Khan**, “Vedic Mathematics Implementation in Multiplier Units.” Journal of Computer and Mathematical Science. Vol.(10),(2019):997-1003.
  19. Niket Nagwani, Nitesh Kumar Sharma, **M.R. Khan**, Deepesh Kumar Gautam “AnAttendanceSystemUnitUsingtheRadiofrequencyIdentificationConcept.”Journal of Computer and Mathematical Science. Vol.(10),(2019):946-953.
  20. Nigendra Kumar Sahu, Nitesh Kumar Sharma, **M. R. Khan**, Deepesh Kumar Gautam“Comparative study on floor cleaner.” Journal of Pure Applied and Industrial Physics, Vol.(08),(2018):233-236.
  21. Niket Nagwani, Nitesh Kumar Sharma, **M. R. Khan**, Deepesh Kumar Gautam “Comparative study of RFID.” Journal of Pure Applied and Industrial Physics, Vol.(08),(2018):229-223.
  22. Pranjali Diwan, **M. R. Khan**, Energy Efficient Communication for WSNs using Grey-Wolf Optimization Algorithm.” International Journal of Engineering and Computer Science, Vol.(05),(2016):19793-19805.
  23. Vivek Kumar Baghel, **M. R. Khan** “PSO and SVD based enhanced signal detection for cognitive radio system.” International Journal of Engineering Sciences & Research Technology, Vol.(05),(2016):889-896.
  24. Vivek Kumar Baghel, **M. R. Khan** “Comparative Analysis of Energy Detection, Eigen value Detection and PSO Optimized Singular Value Detection Techniques for Cognitive Radio Networks” International Journal of Digital Application & Contemporary Research, Vol.(05),(2016):1-10.
  25. Nitesh Kumar Sharma, Jigyasha Maru, **M. R. Khan** “VLSI Implementation of an Approximate Multiplier Using Ancient Vedic Mathematics Concept.” Journal of Pure Applied and Industrial Physics, Vol.(06)6(2016):71-82.
  26. Nitesh Kumar Sharma, Jigyasha Maru, **M. R. Khan** “VLSI Implementation of a Different Types of multiplier unit.” International Journal of Scientific and Engineering Research, Vol.(07),(2016):685-688.
  27. Vivek Kumar Baghel, **M. R. Khan** “Covariance based spectrum detection for cognitive radio.” International Journal of Science and Research,(2015):391-394.
  28. Shanti Rathore, **M. R. Khan** “Classify and enhance security level for using congestion control capability of AODV and xAOMDV protocol in MANET.” International Journal of Computer Application,(2015):6-10.
  29. S.K. Patel, **M. R. Khan**, A.K. Srivastava “An Estimation of Hardware Approach, fabrication and detecting of Biquad antenna about 3GHZ.” Journal of Pure Applied and Industrial Physics, Vol.(04)(2014):75-78.
  30. S.K Patel, **M. R. Khan**, A. K. Srivastava An Estimation of Hardware Approach, fabrication and detecting of slotted waveguide antenna about 3 GHZ.” Journal of Pure Applied and Industrial Physics, IJP, Vol.(07),(2014):103-107.
  31. Piyush Lotia, **M. R. Khan** "Speaker identification using GMM" I-manager publications
  32. Piyush Lotia, **M. R. Khan** “Significance of complementary spectral features for speaker recognition” International Journal of Research in Computer and Communication Technology, Vol. (02) ,2013.
  33. Piyush Lotia, **M. R. Khan** “A review of various score normalization techniques for speaker identification system” International Journal of Advance in Engineering

&Technology, Vol3,(2012):650-657.

34. Piyush Lotia, **M. R. Khan** "A review on Text-independent speaker identification using Gaussian super vector SVM" International Journal of u- and e- service, science and technology, Vol5,2012.
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37. Piyush Lotia, **M. R. Khan** "Development of speech corpora for speaker recognition systems" I-manager's Journal on Electrical Engineering, Vol. (03),2010.
38. Piyush Lotia, Kamal Mehta, **M. R. Khan** "Text dependent speaker recognition system using vector quantization technique" I-manager's Journal on Electrical Engineering, Vol.(03),2010.
39. **M. R Khan** "Combined source and channel coding for AWGN channel-simulation" BSNL Journal of Telecommunications,(2007).
40. **M. R Khan**, M.R. Khare "Design and description of 8.0 KBPS ACELP speech coding algorithm" BSNL Journal of Telecommunications,(2007):17-23.
41. Vineeta Shukla, Richa Khetan, **M. R. Khan** "A sub-optimal, low search complexity, vector quantization (11-bit) of LSF parameters of speech" Journal of Ravishankar University, Vol.(20),(2007):13-18.
42. **M. R. Khan**, G R Sinha, "Evolution of Digital Speech Coding for Telephone Speech Communication A Review", Acta Ciencia Indica. Vol. (XXXIIP).No.2,(2007).171-176.
43. **M. R.Khan**, G R Sinha, "Half Hamming and Quarter Cosine Asymmetrical Window for LP Analysis for Speech Signal." Acta Ciencia Indica. Vol.(XXXIIP),No.3,(2007) 351-355.
44. Horilal Yadav, V. Parinita, **M. R. Khan** "Design and Implementation of Two stage (10-Bit) Vector Quantization for LSF Parameters of Speech.", Journal of Ravishanker University, Vol.(20),(2007):19-24.
45. **M. R. Khan** "A reduced complexity, low delay, high quality, spectrally efficient algebraic code excited linear prediction (ACELP) speech coding algorithm" Journal of Ravishankar University, Vol.(20),(2007):1-12.
46. **M. R. Khan**, M.R. Khare "A Reduced Complexity Two Stage Code book Vector Quantization of LSF parameters for Speech Coding." Chhattisgarh Journal of Science and Technology, Vol.(03&04),(2006-2007):21-28.

#### **Recent Conferences:**

1. Nitesh Kumar Sharma, Deepesh Kumar Gautam, M.R. Khan "Implementation of Encryption Technique for analysis of Image Transmission during COVID-19 Pandemic." 12th International Conference on Computing, Communication and Networking Technologies (ICCCNT). IEEE. 2021. (Scopus)
2. Neha Shivhare, Dr. Shanti Rathod, **Dr. M. R Khan**, Aditi Rai, Sumit Kumar Sar, "Cognitive impairment: Dementia , A Review", National Conference on Innovations in Computation, Communication, Cybernetics and to Combat Current Challenges (I6C) 2020, Bhilai Institute of Technology, Durg (Chhattisgarh) on 20th November 2020.
3. Neha Shivhare, Dr. Shanti Rathod, **Dr. M. R Khan**, "Dementia detection using Bi-LSTM and 1D CNN Model", Springer International Conference on Machine Intelligent and Smart System, IPS college of Technology and Management on 24-25th Sept 2021 (Book series of Springer 'Algorithm for Intelligent System')

4. Neha Shivhare, Dr. Shanti Rathod, **Dr. M. R. Khan**, "Dementia Detection Using LSTM and GRU", 4th International e-conference on Frontiers in Computer and Electronics Engineering, 19-20th Nov 2021 (WoS)
5. Neha Shivhare, Dr. Shanti Rathod, **Dr. M. R. Khan**, "Automatic Speech analysis of Conversations for Dementia Detection Using LSTM and GRU", IEEE International Conference on Computational Intelligence and Computing Application 2021, GH Rasoni College of Engineering, 26-27th Nov (IEEE xplore)
6. C. Pandey, P. K. Sethy, P. Biswas, S. K. Behera, **M. R. Khan**, "Quality Evaluation of Pomegranate Fruit using Image Processing Techniques," 2020 International Conference on Communication and Signal Processing (ICCSP), Chennai, India, 2020, pp. 0038-0040, doi: 10.1109/ICCSP48568.2020.9182232
7. Nitesh Kumar Sharma, Deepesh Kumar Gautam, **M. R. Khan** "Computer Vision based use of Robotics for Teaching" 4<sup>th</sup> IEEE International Conference on Electronics, Communication and Aerospace Technology (ICECA) 2020. (Scopus)
8. Nitesh Kumar Sharma, Deepesh Kumar Gautam, **M. R. Khan** "A Comparative Analysis on Multiplier" 11<sup>th</sup> International Conference on Computing, Communication and Networking Technologies (ICCCNT). IEEE. 2020.
9. Yogesh Kumar Sahu, Chanki Pandey, Preesat Biswas, **M. R. Khan**, Shanti Rathore "Minimum Time Delay and More Efficient Image Filtering Brain Tumour Detection with the help of MATLAB" International Conferences on Communication and Signal Processing (ICCSP). IEEE. 2020.
10. Preesat Biswas, Chanki Pandey, Ashish Kumar Thakur, **M. R. Khan**, Shanti Rathore "Algorithm Design Simulation Performance Analysis of MIMO GMSK System for Radio Communication on AWGN Channel" International Conferences on Communication and Signal Processing (ICCSP). IEEE. 2020.
11. Sharad Chandra Rajpoot, Prashant Singh Rajpoot, **M. R. Khan** "Electricity Pilferage, Fault Detection and their Isolation for Power Quality enhancement in Electrical Distribution System by espouse SDS with Smart Switching Control based on  $\mu$ PMU, IoT- LoRa technology." International Conferences on Communication and Signal Processing (ICCSP). IEEE. 2020.
12. Preesat Biswas, Shanti Rathore, **M. R. Khan**, Prabira Kumar Sethy "A Novel Approach of Digital Communication using 256QAM and Raised Cosine Filter." International Conferences on Communication and Signal Processing (ICCSP). IEEE. 2020.
13. Nitesh Kumar Sharma, Shanti Rathore, **M. R. Khan** "Implementation of Coordinate Rotation Digital Computer (CORDIC) Processing Unit by Using of VLSI Technology" 8<sup>th</sup> International Conference on Recent Trends in Computing (ICRTC), Springer, 2021.
14. Nitesh Kumar Sharma, Shanti Rathore, **M. R. Khan** "A Comparative Analysis on Coordinate Rotation Digital Computer (CORDIC) Algorithm and Its use on Computer Vision Technology" First International Conference on Power, Control and Computing Technologies (ICPC2T). IEEE. 2020.
15. Shanti Rathore, **M. R. Khan** "Enhance congestion control multipath routing with ANT optimization in mobile ad hoc network" International Conference on ICT in Business Industry and Government (ICTBIG). IEEE. 2016.
16. Piyush Lotia, **M. R. Khan** "Text independent speaker identification system using VQ and GMM" International Conference on Electrical, Electronics, Signals, Communication and Optimization. 2015.

<b>S. No.</b>	<b>Name of Candidate</b>	<b>Title</b>	<b>University</b>	<b>Awarded /Ongoing</b>	<b>Date of Notification</b>
1.	Piyush Lotia	Analysis and implementation of text independent speaker verification system using spectral characterization feature and statistical Modeling	CSVТУ Bhilai	Awarded	No. 2499, Dated 23.09.2016
2	Suresh Kumar Patel	Design and simulation Of a self-recoverable antenna system	CVRU Bilaspur	Awarded	No.3924, Dated 08.11.2017
3	Pranjali Diwan	Network architectural design for wireless sensor networks	CVRU Bilaspur	Awarded	No. 3956, Dated 10.11.2017
4	Vivek Kumar Baghel	Particle swarm optimization (PSO)based enhanced signal detection for cognitive Radio system	CVRU Bilaspur	Awarded	No. 4151, Dated 09.01.2018
5	Shanti Rathore	To design protocol for enhanced security and congestion control in MANET	CVRU Bilaspur	Awarded	No. 4872, Dated 21.03.2018
6	Nitesh Kumar Sharma	A New Speed Power Area and Accuracy(SPAA)Aware CORDIC Processing Unit For Image Processing Application	CVRU Bilaspur	Awarded	No.7792 dated 16.09.2021
7	Preesat Biswas	A New Method to apply Lattice Reduction algorithm for Optimizing SNR and BER for ML detection in MIMO Wireless Communication 64-QAM	CVRU Bilaspur	Submitted	No. 991/2019 Dated 10.05.2019
8	Neha Shivhare	A Highly Efficient Automatic Speech Analysis Detection of Dementia using Machine Learning Classifier	CVRU Bilaspur	On Going	No. 952/2019 Dated 10.05.2019