

## CURRICULUM VITAE

### Dr Rashid Mustafa

H. No. J-26, Munshi Prem Chand Park Road,  
Near Sarvang Hospital, Betiahata  
Gorakhpur-273001  
Email: mustafauiet@gmail.com, drrashid@kipm.edu.in  
Mob. No.: +91-7986444640



### Present Position

Working as an **Associate Professor** in the Electronics & Communication Engineering Department at KIPM College of Engineering & Technology, Gorakhpur since April 2019.

### Recent Achievement

Working as **IPR activity Coordinator (IIC)** at KIPM College of Engineering & Technology, Gorakhpur.  
I completed **Ph.D.** in the **Faculty of Engineering & Technology**, Department of Electronics & Communication Engineering, U.I.E.T., Panjab University, Chandigarh on January 21, 2020.  
**Ph.D. Title:** Performance Analysis of Cooperative Spectrum Sensing Technique in Cognitive Radio Network.  
**Area of Specialization:** Wireless Communication, ANN

### Educational / Professional Qualifications

Exam Passed	Subject	Institute	University/ Board	Year	Marks	%	Division
Ph.D. (Regular)	Electronics Engineering	U.I.E.T.	Panjab University, Chandigarh	2020	NA	NA	NA
M. Tech.	Instrumentation <sup>#</sup>	U.C.I.M.	Panjab University, Chandigarh	2010	2006/3000	66.8	I <sup>st</sup>
M.Sc.	Electronics <sup>*</sup>	U.I.E.T.	C.S.J.M. University, Kanpur	2004	704/1200	58.6	II <sup>nd</sup>
B.Sc.	Physics, Maths, Chemistry	B.N.D. College	C.S.J.M. University, Kanpur	2001	751/1350	55.6	II <sup>nd</sup>
Intermediate	Physics, Maths, Chemistry, English, Hindi	V.P.I.C. Panki	U.P. Board	1998	352/500	70.4	I <sup>st</sup>
High School	Science, Maths, Soc. Sci., Hindi, English, Biology	V.P.I.C. Panki	U.P. Board	1996	432/600	72	I <sup>st</sup>

<sup>#</sup>PG Degree in **Instrumentation** is a relevant /appropriate nomenclature of PG Degree for the recruitment of faculty in the department of **Electronics Engineering** as per AICTE Gazette published on 28.04.2017 against F. No. 27/RIFD/Pay/01/2017-18, Page. No. 31.

<sup>\*</sup>M.Sc. (Electronics) is equivalent to **B.E./B. Tech.** according to **AIU** (Association of Indian Universities) and eligible for direct recruitment or promotion as per AICTE Gazette published on 1.3.2019 against F. No. 61-1/RIFD/7th CPC/2016-17, Page. No.40, Item No.7.5.

## Research Publications

SCI	Scopus	Conference	Other	Book
2	4	7	3	1

## Software Knowledge

- MATLAB, LabVIEW, Or CAD Tool, Microsoft Office.

## Details of Work Experience

S. No.	Organization	Designation	Duration	Work Profile
1	KIPM-CET, Gorakhpur	Associate Professor	Dec 2022 to Till Date (7 Months)	Teaching
2	KIPM-CET, Gorakhpur	Assistant Professor	April 2019 to Dec 2022 (3.8 Years)	Teaching
3	Panjab University, Chandigarh	Research Scholar	April 2014-Mar 2019 (5 Years)	Teaching cum Research
4	SDDIE, Barwala, Panchkula, Haryana	Assistant Professor	Jan 2011-April 2014 (3.3 Years)	Teaching
5	Tata Sky Ltd., Noida	Service Engineer	Feb 2006-July 2008 (2.4 Years)	Technical
6	Graphic Era University, Dehradun	Lab-In charge	Feb 2005-Feb 2006 (1 Year)	Teaching
<b>Total Experience</b>				<b>15 Years &amp; 10 Months</b>

## Membership of Conference Committees

- I. Organized two-day workshop on “Recent Trends in Signal Processing” sponsored by ECE department, UIET, Panjab University, Chandigarh on 28-29 April 2016.
- II. Contributed as a Member of Technical Program Committee in organization of 2<sup>nd</sup> IEEE International Conference on “Recent Advances in Engineering and Computational Sciences-2015” organized by UIET, Panjab University, Chandigarh on 21-22 Dec. 2015.

## Service as Reviewer

- I. Contributed as a reviewer in a conference “Emerging Technologies; Micro to Nano (ETMN-2021)” Jointly Organized by Manipal University Jaipur, India & University of Quebec Outaouais, Canada on October 8-9, 2021.
- II. Contributed as a reviewer in 2nd International Conference on Renewable Power (ICRP - 2023) organized by Mewat Engineering College, Nuh, Haryana on 28-29 March 2023.

## M. Tech. Dissertation

Design, Development, and Fabrication of PIC Microcontroller-based Embedded System for Temperature Monitoring.

## Fellowship Awarded

- Received fellowship from Technical Education Quality Improvement Program – II (TEQIP-II) funded by World Bank & MHRD during Ph.D.
- Received Merit-cum-Means Scholarship (During M. Tech.) from Ministry of minority affairs.

## Research Publications

### Articles Published in International and National Journals

- i. **R. Mustafa**, S. Agrawal, and M. J. Khan, “Adaptive fusion-based clustering approach in cognitive radio networks,” *Results in Control and Optimization*, (Scopus-Indexed) vol.8 pp. 100147, 2022. <https://doi.org/10.1016/j.rico.2022.100147>
- ii. **R. Mustafa**, M. J. Khan, Pushparaj, and T. Kaur, “Novel energy-efficient clustering approach for cognitive radio sensor networks,” *Turkish Journal of Computer and Mathematics Education* (Scopus-Indexed) vol.12, no.9, pp. 3109–3116, 2021
- iii. **R. Mustafa**, R. R. Jaglan, and S. Agrawal, “Two-stage fusion in cognitive radio networks: a clustering approach,” *Mathematical Modelling of Engineering Problems* (Scopus-Indexed) vol. 7, no. 1, pp. 146–150, 2020
- iv. **R. Mustafa**, R. R. Jaglan, and S. Agrawal, “Decision fusion-based reliable cooperative spectrum sensing scheme in cognitive radio networks,” in *IET Communications* (SCI-Indexed) vol. 13, no. 7, pp. 947–953, 2019
- v. R. R. Jaglan, **R. Mustafa**, and S. Agrawal, “Scalable and robust ANN-based cooperative spectrum sensing for cognitive radio networks,” *Wireless Personal Communications* (SCIE-Indexed) vol. 99, no. 3, pp. 1141–1151, 2018.
- vi. R. R. Jaglan, S. Sarowa, **R. Mustafa**, S. Agrawal, and N. Kumar, “Comparative study of single-user spectrum sensing techniques in cognitive radio networks,” *Procedia Computer Science*, (Scopus-Indexed) vol. 58, pp. 121–128, 2015
- vii. **R. Mustafa** and M. J. Khan, “Design development and fabrication of PIC microcontroller based embedded system for temperature monitoring,” *International Journal of Recent Advances in science and technology (IJRAST)*, vol. 2, no. 4, pp. 225–232, 2014.
- viii. R. M. Singh, **R. Mustafa**, and R. Ahmad, “Development of microcontroller-based instrument for measuring iron content in water,” *International Journal of Engineering and Innovative Technology (IJEIT)* vol. 2, no. 4, pp. 70–73, 2012
- ix. M. J. Khan and **R. Mustafa**, “Soil testing and analyzing using AVR microcontroller,” *International Journal of Electronics & Communication Technology (IJECT)*, vol. 3, no. 1, pp. 61–65, 2012.

### Articles Published in Conference Proceedings (Scopus-Indexed)

- i. **R. Mustafa**, R. R. Jaglan, and S. Agrawal, “Performance evaluation of cooperative spectrum sensing over fading channels based on neural network learning approach,” in *Proceedings of 2nd International Conference on Communication, Computing and Networking*, Chandigarh, India, pp. 567–575, 29-30 March 2018
- ii. R. R. Jaglan, **R. Mustafa**, and S. Agrawal, “MATLAB Simulink modeling for spectrum sensing in cognitive radio networks,” in *Proceedings of 2nd International Conference on Communication, Computing and Networking*, Chandigarh, India, pp. 241–250, 29-30 March 2018
- iii. R. R. Jaglan, **R. Mustafa** and S. Agrawal, “Neural network data fusion for cognitive radio network,” in *International Conference on Manufacturing, Advanced Computing, Renewable Energy and*

*Communication*, Springer LNEE Series, HMR Institute of Technology and Management, New Delhi, India, 19-20 July 2018

- iv. R. R. Jaglan, **R. Mustafa**, S. Sarowa, and S. Agrawal, "Performance evaluation of energy detection based cooperative spectrum sensing in cognitive radio network," in *Proceeding of First International Conference on Information and Communication Technology for Information Systems*, Ahmedabad, India, vol. 2, no. 51, pp. 585–593, 28-29 Nov. 2015
- v. **R. Mustafa**, S. Sarowa, R. R. Jaglan, M. J. Khan and S. Agrawal, "LTE-advanced random-access mechanism for M2M communication: A review," in *AIP Conference Proceedings*, Rajasthan, India, vol. 1715, no. 1, pp. 020036, 18–20 Oct. 2015
- vi. M. J. Khan, P. Shukla, **R. Mustafa**, S. Chatterji and L. Mathew, "Different types of maximum power point tracking techniques for renewable energy systems: A survey," in *AIP Conference Proceedings*, Rajasthan, India, vol. 1715, no. 1, pp. 020015, 18–20 Oct. 2015
- vii. **R. Mustafa**, and Bhasker Pandey, "Neural network learning approach-based performance evaluation of cooperative spectrum sensing over fading channels" in Conference Proceeding of RTREAET-2021.

### Paper Presentation in International Conference

- i Paper presented in 2nd International Conference on Communication Systems-2015 (ICCS-2015) B K Birla Institute of Engineering & Technology, Pilani, Rajasthan, held on 18-20 Oct. 2015
- ii Paper presented in 2nd International Conference on Communication, Computing and Networking, NITTTR Chandigarh, India, held on 29-30 March 2018
- iii Paper presented in International Conference on Materials, Applied Physics and Engineering (ICMAE-2018), Indore, India, held on 3-4 June 2018
- iv Paper presented in online International Conference on "Recent Trends in Renewable Energy and Advancement in Engineering and Technology (RTREAET-2021)" Sponsored by HAREDA, Govt. of Haryana, jointly organized by Department of EEE and ECE, MEC held on 28th - 29<sup>th</sup> December 2021.

### Paper Presentation at National Conference

- i Paper "A cooperative spectrum sensing scheme for cognitive radio network using clustering approach" presented in CHASCON-2016 organized by Panjab University, Chandigarh on 29 Feb-2 March 2016

### Training, Workshop, Symposium and Faculty Development Programme (FDP)

- i 12 Weeks FDP on "NBA Accreditation and Teaching and Learning in Engineering (NATE)" organized by NPTEL-AICTE from 23 Jan to 30 April 2023.
- ii One-week FDP on Research scope in Electrical Vehicles (In collaboration with ANSYS) from 05/12/2022 to 09/12/2022 organized by Department of Electrical Engineering NITTTR Chandigarh at KIPM-CET, Gorakhpur.
- iii One-week STTP on Recent Advances in Control systems from 25/11/2022 to 29/11/2022 organized by Department of Electrical Engineering, MMMUT, Gorakhpur.
- iv One-Day National Workshop on "Sustainable Technology Development for Energy & Water Sector (STDEWS-2022)" jointly organized by Department of Mechanical & Civil Engineering, KIPM-CET, Gorakhpur and InDA on 24 November 2022.
- v One-week online FDP on Recent Trends and Advances in Machine Learning (from 12/09/2022 to 16/ 09/2022 organized by E& ICT Academy, IIT Roorkee.
- vi One-week online FDP on Future Trends in Wireless Communications and Devices (from 10/02/2022 to 14/ 02/2022 organized by Electronics Engineering Department, Rajkiya Engineering College Sonbhadra UP.

- vii One Week Online Workshop on “Cyber Security and Information Assurance (CSIA 2022 organized by Computer Science and Engineering Department, Rajkiya Engineering College, Sonbhadra from 27<sup>th</sup> January to 31<sup>st</sup> January 2022.
- viii Completed the 5-day online FDP on UHV Refresher 1 organized by All India Council for Technical Education (AICTE) from 31st January 2022 to 4th February 2022.
- ix Completed the 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 15th Nov to 19th Nov 2021.
- x Completed 8 Weeks Annual Refresher Programme in Teaching (FDP) on “Big Data Analytics for Smart Grid” organized by NITTTR, Chandigarh from 01 Sep 2019 to 31 Oct 2019.
- xi Attended two-day symposium on “Emerging Trends in Telecommunication and IT” organized by UIET, Panjab University, Chandigarh on 12-13 Nov. 2014.
- xii Attended one-day Training on “System Design using Optiwave” organized by UIET, Panjab University, Chandigarh and Gigasoft, New Delhi on 21 Nov. 2014.
- xiii Attended two-day workshop on “2G and 3G” organized by ECE Department, NITTTR, Chandigarh on 3-4 Sep. 2015.
- xiv Attended two-day workshop on “Recent Trends in Signal Processing” organized by ECE department, UIET, Panjab University, Chandigarh on 28-29 April 2016.
- xv Attended three-day workshop “CHASCON-2016” organized by Panjab University, Chandigarh on 29 Feb-2 March 2016.
- xvi Attended three-day workshop “CHASCON-2017” organized by Panjab University, Chandigarh on 9-11 March 2017.
- xvii Attended three-day workshop “CHASCON-2019” organized by Panjab University, Chandigarh on 13-15 March 2019.
- xviii Participated in one-day IMS workshop on “Nanoelectronics and VLSI Development” organized by UCIM, Panjab University, Chandigarh held on 18 October 2008.

**Training is done at ATI-EPI now NSTI (National Skill Training Institute) under the Ministry of Skill Development & Entrepreneurship, Government of India**

- One-year training course on Industrial Electronics at ATI-EPI from April 2004 to March 2005, including one-month (Feb 7, 2005, to Mar 6, 2005) Project Training at GEIT, Dehradun.

**Professional Membership**

- Ex-Member of Indian Microelectronics Society, Panjab University, Chandigarh.
- Member of International Association of Engineers (IAENG), Hong Kong.

**Courses Taught**

Course Title	Level (UG/PG)	Number of Times	Course developed by
Analog Communication	UG	2	Kurukshetra University
Signal & Systems	UG	2	Kurukshetra University
Control System	UG	2	Kurukshetra University
Satellite Communication	PG	1	Kurukshetra University

MATLAB Programming	UG	1	Panjab University, Chandigarh
Wireless & Mobile Comm.	UG	2	AKTU, Lucknow
Sensor & Instrumentation	UG	2	AKTU, Lucknow
VLSI Technology	UG	2	AKTU, Lucknow
Project Management & Entrepreneurship	UG	2	AKTU, Lucknow

### Research Profile

Scopus Profile: <https://www.scopus.com/authid/detail.uri?authorId=57189321745>

Google Scholar Profile: <https://scholar.google.co.in/citations?hl=en&user=-8JpT4sAAAAJ>

Research Gate Profile: <https://www.researchgate.net/profile/Rashid-Mustafa-3>

LinkedIn Profile: <https://www.linkedin.com/in/dr-rashid-mustafa-a3840518/>

### Personnel Details

Father's Name	Late Irshad Hasan Siddiqui
Mother's Name	Mrs. Sabia Begum
Date of Birth	15 <sup>th</sup> June 1980
Marital Status	Married
Spouse Name	Dr Farhana Masood
Languages Known	English, Hindi, Urdu
Hobbies	Research and Teaching

### References

<b>Name</b>	Prof. Sunil Agrawal (Ph.D. Supervisor)	Dr Naresh Kumar
<b>Designation</b>	Professor	Associate Professor
<b>Address</b>	Department of Electronics Engineering, UIET, Panjab University, Chandigarh	Department of Electronics Engineering UIET, Panjab University, Chandigarh
<b>Email</b>	s.agrawal@hotmail.com	naresh_uiet@yahoo.com
<b>Contact No.</b>	8699023296	9216392982
<b>Name</b>	Gagnesh Kumar	Dr Suryakant Pathak
<b>Designation</b>	Assistant Professor	Director & Professor (CSE)
<b>Address</b>	Department of Electronics and Communication Engineering, NIT, Hamirpur	KIPM Technical Campus, BL 1&2 KIPM-CET, GIDA, Gorakhpur
<b>Email</b>	gagnesh@nith.ac.in, gagnesh78@gmail.com	skpathak.cs@gmail.com
<b>Contact No.</b>	9815226699	9772607117

I hereby declare that all the information mentioned above is true to the best of my knowledge and belief.

**Place:**

**Date:**

**(Dr Rashid Mustafa)**