

Resume

Dr. JASMINE P.M.	
PROFILE	Associate Professor, Department of Electronics, M. E. S. College, Marampally, Marampally P.O., Aluva-683107, Kerala, Tel: +91-484-2677104, Mob: +91-9447050322 Email: jasmine@mesmarampally.org
	
EDUCATION	
Ph.D in Engineering	School of Engineering, Cochin University of Science and Technology, Kochi-22, India, 2016
M.Tech –Digital Image Computing	Department of Computer Science, Karyavattom, Kerala University, Thiruvananthapuram, Kerala, 2000, 76%
B.Tech – Electronics and Communication Engineering	Rajiv Gandhi Institute of Technology, Kottayam, Mahatma Gandhi University Kottayam, India. 1995, 76%
PROFESSIONAL MEMBERSHIPS / REVIEWERSHIP	
<input type="checkbox"/> Member, IEEE <input type="checkbox"/> Fellow, Indian Society of Systems for Science and Engineering (ISSE) <input type="checkbox"/> Reviewer, Frequenz Journal.	
ADMINISTRATIVE EXPERIENCE	
NSS Programme Officer from 2016-17 to till now Vice Principal from 18-04-2022 onwards	
AWARDS RECEIVED	
<input type="checkbox"/> Third Author of the Best Student Paper award for the paper titled Planar Lowpass Filter with Sharp Rolloff using Patch Resonators on High Impedance Microstrip line in IEEE Radio 2015 Conference held at Mauritius	

<input type="checkbox"/> Third Author of the Best Student Paper award for the paper titled Split Ring Circular Slot arrays on WR3 Waveguide for Sub-THz Applications in the 2021 IEEE MTT-S International Microwave and RF Conference <ul style="list-style-type: none"> • Appreciation Award, Best NSS Programme Officer, Mahatma Gandhi University, 2019 	
PERSONAL DETAILS	
Age & Date of Birth	52 Years, 21 st April 1974 [Female]
Permanent Address	Kollamkudy House, Thrikkakkara, Kochi, Kerala, India PIN: 682021
Nationality	Indian
AREAS OF INTEREST	
Dielectric Resonator Antennas, Waveguides, Planar Antennas, Method of Moments, Digital Image Processing	
PUBLICATIONS	
International Journals	14
International Conferences	25
National Conferences	4
REFERENCES	
Dr. Abdulla P	Principal, School of Engineering, Cochin University of Science and Technology, Kochi-682 021. Email:abdulla@cusat.ac.in Phone:+91 9496445235
Dr. A Biju	Director, MES aided Colleges Marampally P.O., Aluva, Kochi, Kerala, Pin-683107 Email:ajimspm@gmail.com Phone:+91-9446194905

Other Information:

Prepared study materials for Digital Electronics, Principles of Electrical Communication, and Computer Organization for the BSc Computer Science course

conducted by School of distance Education of Mahatma Gandhi University. Co-Investigator of the project “Design and Development of Compact Planar Low Pass Filter with Sharp Roll-Off and High Suppression Level for RF and Wireless Communication Systems” sanctioned by KSCSTE.

Projects Completed/ Undergoing

Co-Investigator of KSCSTE sponsored major research project on **Design and Development of Compact Planar Low pass Filter with Sharp Roll-Off and High Suppression Level for RF and Wireless Communication Systems** worth Rs. 16,32,400/- on 19-09-17

DST Travel Grant

DST Travel Grant of Rs. 74,330/- (Rupees Seventy Four Thousand Three Hundred Thirty only) for presenting a paper at the international conference LAPC 2016, held at Loberough, UK from 14-11-2016 to 15-11-2016

Online Certificate Courses

Completed the NPTEL online certification course on “Digital Circuits” with Elite Certificate (consolidated score : 73%)

Completed the NPTEL online certification course on “C Programming and Assembly language” with Elite Silver

Completed the NPTEL FDP in Electronic Waste Management Issues-and Challenges (consolidated score 76%)

Completed the NPTEL FDP in Introduction to Embedded System Design (consolidated score 76%)

Editors of Books/Proceedings

- AIP Proceedings of ICHT 2022, international conference conducted by MES College Marampally
- Proceedings of MESKCON 2026, international conference conducted by MES Kalladi College (Autonomous), Mannarkkad

Sessions Handled

- An Orientation Programme on NAAC Assessment and Accreditation for the faculty members of MES T O Abdulla Memorial College, Kunnukara on 29-05-2023
- A session on Criteria wise NAAC orientation for the faculty members of MES College for Advanced Studies Edathala on 26 May 2023
- A session on IQAC orientation for MBA and MCA faculty members of MES-AIMAT, Marampally on 24-08-2022
- A session on Research Funding Agencies in the National Seminar on Research Methodology and Academic Writing: Tailored Approach (RMAW 20-21) organised by Department of Business Administration, MES College Marampally in association with KSHEC on 29-03-2021
- A session on Curricular Aspects: NAAC Criterion in the one day workshop on NAAC Orientation for the faculty members of MES T O Abdulla Memorial College on 15-02-2020
- Expert talk on Curricular Aspects in the one day workshop on Assessment and Accreditation framework of NAAC at KMEA College, Kuxhivelippady on 08-02-2020

Publications

Referred Journals

1. **P. M. Jasmine**, P. Abdulla and P. M. Raphika, "Analysis and experiment of stair-shaped waveguide-fed dielectric resonator antenna", *IET Microwaves Antennas and Propagation*, Vol. 10, No. 4, pp. 453-458, 2016
2. **P. M. Jasmine**, Abdulla P., Raphika P. M., Anu A. R., Rekha T. K., and Ami Iqubal "Coupling Enhancement of Rectangular Waveguide fed Hemispherical DRA" *International Journal of Scientific Progress and Research* Vol. 25, No. 2, pp. 78-80, 2016
3. **P. M. Jasmine**, P. Abdulla and P. M. Raphika, "Rectangular waveguide fed DRA using tapered waveguide section" *Microwave and Optical Technology Letters*. Vol. 57, No. 9, pp. 2025-2028, 2015.

4. Sheeba Varghese, Parambil Abdulla, Ann Mary Baby and **Jasmine P M**,” High Gain Dual-Band Waveguide Fed Dielectric Resonator Antenna “, IEEE Antennas and Wireless Propagation Letters, Vol. 21, No. 2, pp. 232-236, 2021, 10.1109/LAWP.2021.3124225
5. Farha K A, **Jasmine P M** and Fasmi K A, “Design, Implementation and explainable AI evaluation of a compact UWB microstrip patch antenna for 6G applications”. International Journal of Electronics and Communications, Vol.206’ February 2026, <https://doi.org/10.1016/j.aeue.2025.156178>
6. Sheeba Varghese, Parambil Abdulla, Ann Mary Baby, **Jasmine P M** and K K Ansha, “Dual Band Waveguide fed Hollow Cylindrical DRA”, Progress In Electromagnetics Research PIER C, Vol. 117, 145-157, 2021. doi:10.2528/PIERC21103005.
7. K K Ansha, P. Abdulla, **P. M. Jasmine** and Sam Kollannore U, Circularly polarized split ring slotted waveguide array antenna for 6G communications, Optik, Volume 247, September 2021, <https://doi.org/10.1016/j.ijleo.2021.167920>
8. A. R. Anu, P. Abdulla, **P. M. Jasmine**, and T. K. Rekha, :Circularly Polarized Single Feed Hemispherical Dielectric Resonator Antenna for Wi-Max Application”, Progress In Electromagnetics Research M, Vol. 92, 21-30, 2020, <http://dx.doi.org/10.2528/PIERM20022401>
9. T. K. Rekha, P. Abdulla, **P. M. Jasmine** and A R Anu, “Compact microstrip lowpass filter with high harmonics suppression using defected structures” International Journal of Electronics and Communications (AEÜ), Vol. 115, Pages 1-10, 2020, <https://doi.org/10.1016/j.aeue.2019.153032>
10. A. R. Anu, P. Abdulla, **P. M. Jasmine**, and T. K. Rekha “A Varactor-Tuned Aperture Coupled Dual Band Cylindrical Dielectric Resonator Antenna for C Band Applications”, Progress In Electromagnetics Research C, Vol. 94, 261-272, 2019, <http://dx.doi.org/10.2528/PIERC19052302>
11. T K. Rekha, P Abdulla, **P M. Jasmine**, and P M. Raphika “Improved Frequency Response of Microstrip Lowpass Filter Using Defected Ground Structures” *Progress In Electromagnetics Research C*, Vol. 81, 31–40, 2018
12. T K. Rekha, P. Abdulla, P M. Raphika, and **P M. Jasmine** “Compact Microstrip Lowpass Filter With Ultra-Wide Stopband Using Patch Resonators and Open Stubs”, Progress In Electromagnetics Research C, Vol. 72, 15–28, 2017
13. A. R. Anu, P. Abdulla, **P. M. Jasmine** and P. M. Raphika “Semicircular Aperture Coupled Hemispherical Dielectric Resonator”, *International Journal of Advances in Microwave Technology* , Vol.1, no.2, pp. 053-057, August 2016.
14. P. M. Raphika, P. Abdulla and **P. M Jasmine**, "Planar elliptic function lowpass filter with sharp roll-off and wide stopband" *Microwave and Optical Technology Letters*. Vol. 58, No. 1, pp. 133-136, 2016.

15. P. M. Raphika, P. Abdulla and **P. M Jasmine**, "Compact lowpass filter with sharp roll-off using funnel patch resonator" *Microwave and Optical Technology Letters*. Vol. 56, No. 4, pp. 2534-2536, 2014.

International Conferences

1. Farha K A, **Jasmine P M** and Smitha Salim , “ Design and Optimization of Dual-Band Microstrip Patch Antenna for Automotive Radar and 6G Wireless Communication”, IEEE Wireless and Microwave Symposium, 5-8 June 2025, <https://doi.org/10.1109/WAMS64402.2025.11158455>
2. Ansha K K, Sheeba Varghese, Abdulla P and **Jasmine P M**, “Dual-band Circularly Polarised U-slotted Waveguide Antenna for Sub-THz Applications”, 2023 International Symposium on Antennas and Propagation, ISAP 2023, November 2023, Koala Lumpur, Malaysia <https://ieeexplore.ieee.org/xpl/conhome/10388486/proceeding>
3. **P M Jasmine**, T K Rekha, K K Ansha and Sheeba Varghese, “Coupling Enhancement of Rectangular Waveguide fed Hemispherical Dielectric Resonator Antenna using Step Junction”, AIP Conference Proceedings, Vol. 2773, Issue: 1, 23 May 2023, <https://doi.org/10.1063/5.0138571>
4. Farha K A and **Jasmine P M**, “Microstrip Patch Antenna for UWB Applications”, AIP Conference Proceedings, Vol. 2773, Issue: 1, 23 May 2023, <https://doi.org/10.1063/5.0138637>
5. Sheeba Varghese, Parambil Abdulla, **Jasmine P M** and Ann Mary Baby, “Coupling Enhancement of Hemispherical Dielectric Resonator Antenna”, International Conference on Power, Instrumentation, Control and Computing (PICC), 19-21 April 2023, Govt. Engineering College, Thrissur, <https://doi.org/10.1109/PICC57976.2023.10142935>
6. K K Ansha; P Abdulla; **P.M Jasmine**; U Sam Kollannore, “ Design of Circularly Polarised Ring Slotted Patch Antenna for SubTHz Applications”, 2022 IEEE USNC-URSI Radio Science Meeting (Joint with AP-S Symposium), 10-15 July 2022, Denver, CO, USA
7. Ansha, K. K., P. Abdulla, Sheeba Varghese, and **P. M. Jasmine**. "Circularly Polarized Elliptical Microstrip Patch Array Antenna for THz Applications." In 2022 IEEE WirelessAntenna and Microwave Symposium (WAMS), pp. 1-4. IEEE, 2022.
8. Ansha K.K., Abdulla P., Sam Kollannore, **Jasmine P.M.**, and Rekha T.K., "Triangular Ring With Dumbbell Slots on SIW for Sub-THz Applications " IEEE Indian Conference on Antennas and Propagation, InCAP 2021, 13 - 16 December, Jaipur.

9. K K Ansha, P Abdulla and **P M Jasmine**, “Split Ring Circular Slot Arrays on WR3 Waveguide for Sub-THz Applications”, IEEE- MTT-s International Microwave and RF Conference, Kanpur India, 17-19 December 2021
10. T A Nisamol, P Abdulla, C K Anandan, P M Raphika and **P M Jasmine**, “ Modified Open Loop Resonator for Lowpass Filter Augmentation”, IEEE Texas Symposium on Wireless and Microwave Circuits and Systems.Waxco, TX, USA, pp. 26-28 May 2020
11. Nisamol T A, Abdulla. P, Raphika P.M, **Jasmine P.M** and Rekha T K, ‘ 35 GHz Prolonged Stopband Using Multi Resonator Filter Structure’, 2020 International Symposium on Antennas and Propagation, APSYM 2020, December 14-16, 2020, PP. 111-113
12. Anu A. R., Abdulla P., **Jasmine P. M.**, Rekha T. K., ‘Frequency Reconfigurable Hemispherical Dielectric Resonator Antenna using Dual Split Rings, 2020 International Symposium on Antennas and Propagation, APSYM 2020, December 14-16, 2020, PP. 3-6
13. Ansha K K, Abdulla P, Sheeba Varghese, **Jasmine P M**, Broadband Circularly Polarized L Shaped Slot Antenna for THz Applications Proceeding of APSYM 2020
14. P M Raphika, Abdulla P., **Jasmine P. M.**, Rekha T. K and Ami Iqubal, ‘Design of Planar Low Pass Filter with Razor-sharp Roll-off’,2019 2nd IEEE East and Africa Communication Conference, MENACOMM,19-21 Nov. 2019
15. A. R Anu, P Abdulla, T. K Rekha, Ami Iqubal; U Sam Kollannore and **P. M. Jasmine**, “Bandwidth Enhancement of Aperture Coupled Cylindrical Dielectric Resonator Antenna using Modified Feed Structure”, TENCON 2019- IEEE Region 10 Conference 2019
16. Nisamol T A, Abdulla. P, Aanandan C K, Raphika P M and **Jasmine P M**, Highly Compact Microstrip Lowpass Filter with Wide Suppression Level using Diamond and Flag Resonators’, European Conference on Antennas and Propagation, EuCAP 2019, 31 March to 5 April 2019, pp. 1-4
17. Nisamol T A, Abdulla. P, Raphika P.M, **Jasmine P.M**, ‘Compact Microstrip Lowpass Filter with Ultra-wide stopband using newly Modified Resonators’IEEE- INAE Workshop on Electromagnetics (IIWE), Trivandrum, Dec 6-8, 2018
18. Nisamol T A, Abdulla. P, Rekha T.K, Raphika P.M, **Jasmine P.M**, ‘Highly Compact Microstrip S-Band Hairpin Resonator Lowpass Filter with Ultra Wide Stopband’,

International Symposium on Antenna and Propagation (APSYM), CUSAT, Dec 3-5, 2018

19. Ami Iqbal, Abdulla P., Rekha T. K., Anu A. R., Sam Kollannore U, **Jasmine P. M.** and Raphika P. M., 'A Novel Hextuple-Mode Wideband Bandpass filter with Sharp Roll-Off and Ultra-Wide Upper Stopband', *Proceedings of International Symposium of Antennas and Propagation, APSYM 2018*, pp. 66-68, Cochin University of Science and Technology, Kochi, December 2018.
20. Anu A. R., Abdulla P., **Jasmine P. M.**, Rekha T. K., Ami Iqbal and Sam Kollannore U, 'Frequency Tuning of Cylindrical Dielectric Resonator antenna using Varactor Diode', *Proceedings of International Symposium of Antennas and Propagation, APSYM 2018*, pp. 81-83, Cochin University of Science and Technology, Kochi, December 2018.
21. **Jasmine P M**, Abdulla P, Raphika P M and Rekha T K, *Double Step Junction for Coupling Enhancement of Rectangular Waveguide fed Cylindrical DRA* International Joint Conferences on Advances in Engineering and Technology organized by IDES on 20th January 2018, pp-133-140.
22. Raphika P M, Abdulla P, **Jasmine P M** and Rekha T K, *Wide Stopband Lowpass Filter with Sharp Roll-off using Multiple Resonators* International Joint Conferences on Advances in Engineering and Technology organized by IDES On 20 January 2018, pp-147-154
23. T K. Rekha, P Abdulla, A R Anu, **P.M. Jasmine**, and P M. Raphika, 'High Selectivity Ultra-Wide stopband microstrip lowpass filter using high-low impedance Resonators', 2017 International Conference on Information Communication, Instrumentation and Control, ICICIC 2017, 17-19 August 2017, PP. 1-5
24. **P. M. Jasmine**, P. Abdulla and P. M. Raphika *Tapered waveguide fed cylindrical dielectric resonator antenna* FERMAT, Volume 21, Communications 18, May-Jun., 2017
25. Raphika P.M., Abdulla P. and **Jasmine P.M.**, *Compact Lowpass Filter with Extended Stopband Bandwidth*, International Symposium on Antennas & Propagation, Kochi December, 2016
26. Ami Iqbal, Abdulla P., Rekha T.K, Anu A. R., **Jasmine P.M.**, Raphika P.M., Novel Bandpass Filter using mode Chamfered square Patch Resonator with Diamond shaped Slot, *International Symposium on Antennas & Propagation*, Kochi December, 2016
24. **P. M. Jasmine**, P. Abdulla and P. M. Raphika, *Tapered waveguide fed cylindrical dielectric resonator antenna* IEEE Conference on Antennas and Propagation, Loughborough , UK, pp. 1-4, November 2016

25. **P. M. Jasmine**, P. Abdulla and P.M. Raphika, "Double step junction coupled waveguide fed dielectric resonator antenna", *IEEE International Conference on Advances in computing and Communications*, (ICACC 2015), Kochi, pp. 297-300, 3-5 September 2015.
26. **P. M. Jasmine**, P. Abdulla and P.M. Raphika, "Theoretical analysis of double step junction coupled waveguide fed DRA", *Proc. International Symposium on Antennas & Propagation*, (APSYM 2014), Kochi, pp. 287-290, December 17-19, 2014.
27. **P. M. Jasmine**, P. Abdulla and P.M. Raphika, "Coupling enhancement of waveguide fed dielectric resonator antenna using tapered section of waveguide", *Procedia Computer Science*, Vol. 46, pp. 1278-1284, ICICT Kochi, 3-5 December 2014.
28. P. M. Raphika, P. Abdulla and **P. M Jasmine.**, "Compact wide stopband lowpass filter with high suppression using corrugated transmission line", Vol. 120, No.1, IOP Conference Series Materials Science and Engineering.
29. Abdulla P, **Jasmine P. M.** and Raphika P. M., "Waveguide-fed cylindrical DRA: Wide-band design" *IEEE International Symposium on Antennas and Propagation, Kaohsiung, Taiwan (ISAP 2014)*, pp. 241-242, 2-5 December 2014.
30. Raphika P.M., Abdulla P. and **Jasmine P.M.**, "Compact microstrip elliptic function lowpass filter with sharp roll-off and wide stopband by cascading multiple patch resonators", *Proceedings of IEEE International Microwave & RF Conference (IMaRC 2014)*, Bangalore, pp. 316-319, 15-17 December 2014.
31. Raphika P.M., Abdulla P. and **Jasmine P.M.**, "Planar lowpass filter with sharp roll-off using patch resonators on high impedance microstrip line", *IEEE RADIO 2015*, Mauritius, pp. 1-2, 21-24 September 2015.
32. Raphika P.M., P. Abdulla and **P. M. Jasmine**, "Compact planar lowpass filter with sharp roll-off and wide stopband using multiple patch Resonators", *Proceedings of International Symposium on Antennas & Propagation (APSYM 2014)*, Kochi, pp. 347-350, 17-19 December, 2014.
33. Raphika P. M., Abdulla P. and **Jasmine P. M.**, "Compact microstrip lowpass filter with sharp roll-off and wide stopband by cascading multiple resonators", *Asia Pacific Microwave Conference, (APMC 2014)*, Sendai, Japan, pp. 1229-1231, 4-7 November 2014.

National Conferences

1. P. S. Arya, P. Abdulla, **P. M. Jasmine** and Divya Mohan, "Semicircular slot coupled hemispherical dielectric resonator antenna", *UGC Sponsored National*

Conference on Recent Advances in Microwave Communication, MES College, Marampally, 11-12 August 2015.

2. **P. M. Jasmine**, P.M. Raphika and P. Abdulla, "MoM analysis of waveguide fed dielectric resonator antenna", *UGC Sponsored National Seminar, Sree Ayyappa College, Eramalikkara, Alappuzha, 20-21 December 2013.*
3. P. M. Raphika, Abdulla P. and **P. M. Jasmine**, "Review of compact planar lowpass filter with sharp roll-off using patch resonators", *Spectrum, UGC Sponsored National Conference, Govt. College, Chittoor, Palakkad, 29-31 October 2014.*
4. **P. M. Jasmine**, P. Abdulla and P.M. Raphika, "A novel technique of coupling enhancement of waveguide fed dielectric resonator antenna", *Spectrum, UGC Sponsored National Conference, Govt. College, Chittoor, Palakkad, 29-31 October, 2014.*

I hereby attest that the above information is true and correct to the best of my knowledge

Jasmine P M