

- 1. Name** : Umadevi K S
- 2. Designation** : Asst. Professor
- 3. Email Id** : umasreekumar03@gmail.com
- 4. Educational qualifications** : M. Sc Electronics (Ph.D Thesis submitted)
- 5. International/national seminars attended/organized**

**International seminar attended:-**

- International Conference on Management and Applied Sciences (ICMAS-1), Department of Commerce, Prajyoti Niketan College, Pudukad 25<sup>th</sup> & 26<sup>th</sup> October 2018

**National Seminars attended:-**

- One day National Seminar on Computer Animation, IT-VISTA 2009 , Prajyoti Niketan College, Pudukad; 23 January, 2009.
- A National Seminar on Electronics **EIKOS'2009**, Prajyoti Niketan College, Pudukad 13<sup>th</sup> November 2009
- One day Seminar on Cosmology, Christ College ,Irinjalakuda,7<sup>th</sup> November 2009
- National seminar on 'Materials for Electromagnetic Applications', Christ College,Irinjalakuda,29,30 November 2011.
- National Seminar on 'Emerging trends in Growth and characterization of single crystals and Nanomaterials' Post Graduate Department of Physics, Sacred Heart College, Chalakudy ,11 ,12 March 2013.
- Two day National Workshop on ELECTRON-2014, Prajyoti Niketan College, Pudukad 3<sup>rd</sup>&4<sup>th</sup> January 2014
- National Seminar on 'Electroceramics', Department of Physics, St.Aloysius College, Elthuruthu, Thrissur ,24<sup>th</sup>,25<sup>th</sup> February 2014.
- National Seminar on 'Future of Electromagnetic Communications and Materials',Spectrum 2014 , Department of Electronics, Govt. College, Chittur ,29-31 October 2014.
- National Seminar on Recent trends in Electronics, Department of Electronics, Prajyoti Niketan College, Pudukad 22&23<sup>rd</sup> January 2015.
- National Workshop on Digital Signal Processing &Autonomous Robotics, Department of Electronics, St. Thomas College,Thrissur,2<sup>nd</sup> &3<sup>rd</sup> December 2015.

**6. Papers presented/sessions chaired/keynote address**

## **Papers Presented:-**

- Automation of Gunn Diode for microwave frequency Scanning , Prajyoti Niketan College, Pudukad, National Seminar on Electronics EIKOS 2009. 13<sup>th</sup> November 2009.
- An Efficient method for finding the Resonance properties of Split Ring Resonator, National Seminar on 'Materials for Electromagnetic Applications, Christ College, Irinjalakuda, 29,30 November 2011.
- Effect of substrate Dielectric constant on the resonant frequency of Broad-side coupled Split ring resonator metamaterial structure, National Seminar on 'Electroceramics' St. Aloysius College, Elthuruthu, Thrissur ,24<sup>th</sup>,25<sup>th</sup> February 2014.
- A novel flexible negative permeability metamaterial structure made of conducting wires, 3<sup>rd</sup> International Conference on 'Competency Building Strategies in Business and Technology for Sustainable Development' Sri Ganesh School of Business Management, Salem , 25<sup>th</sup> February 2014.
- Experimental studies on the tunable characteristics of a flexible broadside-coupled splitting resonator metamaterial structures, National conference on Emerging Vistas of Engineering and Management, Viswajyothi College of Engineering and Technology, Vazhakulam, 24<sup>th</sup> and 25<sup>th</sup> November 2014. (Presented by the Research Supervisor).
- Flexible Wire Split Ring Resonator Metamaterial Structure (WSRR) for Frequency Selective Applications, National Seminar on Materials, Methods and Sensors for Electromagnetic Applications, Christ College, Irinjalakuda, 24<sup>th</sup>, 25<sup>th</sup> January 2019.
- Wide band microwave absorber using flexible broadside coupled split ring resonator metamaterial structure, 2019 Thirteenth International Congress on Artificial Materials for Novel Wave Phenomena - Metamaterials, Rome, Italy, 16<sup>th</sup> September -21<sup>st</sup> September 2019 (Presented by the Research Supervisor).

## **7. Articles, monographs published/reviewed in referred journals/books**

- Effect of Substrate Parameters on the Resonant Frequencies of Split-Ring Resonator Metamaterials, Proceedings of the National Seminar on Quantum confined System & Nano devices, St.Thomas College, Pala, December 2009.
- An Efficient method for finding the Resonance properties of Split Ring Resonator, Proceedings of the National Seminar on 'Materials for Electromagnetic Applications, Christ College, Irinjalakuda. 29,30 November 2011.
- Flexible Split-ring resonator metamaterial structure at microwave frequencies, 'Microwave and Optical Technology Letters' (Wiley Publishers), June 2012.

- Experimental Studies on the Effect of Substrate Dielectric Constant on the Resonant Frequency of Split-Ring Resonator Metamaterial Structure, International Journal of Science and Research (IJSR), July 2014.
- Experimental studies on the tunable characteristics of a flexible Broad side –coupled Split Ring Resonator Metamaterial structure, Viswajyoti College of Engineering, Vazhakulam, Muvattupuzha, 2014.
- Resonant properties of wire SRR(WSRR), Andromeda, Interdisciplinary Journal, September 2015.
- Split ring Resonator made of conducting wires for performance enhancement, Euro Physics Letters(EPL), (IOP Science), June 2017.
- Humidity sensitive flexible microwave absorbing sheet using polyaniline – Polytetrafluoroethylene composite, Arabian Journal for Science and Engineering, June 2018.
- Broadside coupled split ring resonator based multiband monopole patch antenna for wireless communication applications, AIP Conference Proceedings, 2019.
- Enhancing the resolution in imaging using folded metamaterial split ring resonator structure at microwave frequencies, AIP Conference Proceedings, 2019.
- Scattering from artificial plasma cylinder using nonstandard FDTD, AIP Conference Proceedings, 2019.
- Microwave absorption properties of flexible zinc oxide sheet, AIP Conference Proceedings, 2019.
- Wide band microwave absorber using flexible broadside coupled split ring resonator metamaterial structure, Proceedings of 2019 Thirteenth International Congress on Artificial Materials for Novel Wave Phenomena ( Metamaterials Rome, Italy, ) IEEE Explore, 2019.

## **8. Experience/Role in conducting examinations**

- Member, Board of Examiners, B.Sc Electronics Main & Subsidiary both Theory & Practical's
- Chief Examiner for the valuation of B.Sc Electronics main and subsidiary Examinations of University of Calicut

- Member, Board of Examiners in Electronics, St. Thomas Autonomous College,  
Thrissur

## **9. Positions held**

- Co-ordinator, Scholar Support Programme (SSP)
- Co-ordinator, Mentoring & Coaching Programmes
- Member, Finearts Committee