



## Mr. Manas Ranjan Jena - M. Tech. Ph.D. (Cont.)

**Name** : Manas Ranjan Jena  
**Designation** : Assistant Professor  
**Department** : Electronics & Communication Engineering  
(Joined the institute in 2017)  
**Contact** : +919090361026 (M), +919090710476(M)  
**Email** : manasranjan.jena@silicon.ac.in  
manas.synergy@gmail.com

### RESEARCH INTERESTS

- Design and analysis of microstrip antenna.
- Design and analysis of fractal antenna.
- Design and analysis of microstrip antenna arrays.

### ACADEMIC QUALIFICATIONS

Ph.D. (Cont.) Electronics & Communication Engineering, VSSUT, Burla, Odisha.

M.Tech (Electronics & Communication Engineering), VSSUT, Burla, Odisha.

Specialisation: Microwave, Antenna & Wave Propagation.

### TEACHING/INDUSTRIAL/RESEARCH EXPERIENCE

- Asst. Professor of ECE, Silicon Institute of Technology, Sambalpur since December 2017
  - Asst. Professor of ETC. SIET, Dhenkanal, Odisha from December 2007 to December 2017
  - Asst. Professor of ETC IACR ,Raygada, Odisha from January 2006 to Nov 2007
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## JOURNALS

- [1]. Manas Ranjan Jena, B.B.Mangaraj, Debasis Mishra, "Bandwidth & Gain Enhancement Of Multiband Fractal Antenna Based On The Sierpinski Carpet Geometry", ICTACT Journal On Communication Technology, Vol: 04, Issue: 01, March 2013.
- [2]. Manas Ranjan Jena, B.B.Mangaraj, Rajiv Pathak , "A Novel Sierpinski Carpet Fractal Antenna with Improved Performances" , American Journal of Electrical and Electronic Engineering, Vol. 2, No. 3, 62-66 ,March 2014.
- [3]. Manas Ranjan Jena, B.B.Mangaraj, Rajiv Pathak , "An Improved Compact & Multiband Fractal Antenna Using the Koch Curve Geometry", Wireless and Mobile Technologies, Vol. 2, No. 1, 1-6, June 2014.
- [4]. Amiya B. Sahoo, Guru P. Mishra, Manas R. Jena, B. B. Mangaraj, "Optimal Design and Comparative Study of Circular Patch Antennas Using Different Feeds for WLAN and WiMAX Applications", International Journal on Communications Antenna and Propagation (I.Re.C.A.P.), Vol. 6, N. 3, June 2016. (Scopus)
- [5]. Biswa Binayak Mangaraj, Manas Ranjan Jena, and Saumendra KumarMohanty, "Bacteria Foraging Algorithm in Antenna Design", Applied Computational Intelligence and Soft Computing, Volume 2016, Article ID 5983469. (SCI)
- [6]. Sanjana Sahoo, Guru Prasad Mishra, Manas Ranjan Jena, and Biswa Binayak Mangaraj, "Sub-sectional Tapered Printed-LPDA Design with WLAN, WiMAX Notch Bands for UWBCommunication Systems", Springer Nature Singapore Pte Ltd. 2019. (Scopus)
- [7]. Manas Ranjan Jena, Guru Prasad Mishra, Amiya Bhusan Sahoo, Biswa Binayak Mangaraj, ' Fractal geometry and its applications to antenna designs , International Journal of engineering and advanced technology, Vol. 9, Issue.1, October 2019. (Scopus)

## CONFERENCES

- [1]. Amiya B. Sahoo , Suraj Ku. Jha ,Manas R. Jena and Saumendra Ku. Mohanty, "Optimization of circular patch antenna at 5GHz using Firefly Algorithm", IEEE conference, 2015.
- [2]. Jogesh Chandra Dash, Manas Ranjan Jena, and Biswa Binayak Mangaraj , "Analysis of dipole antenna and its array using finite element method", IEEE conference, 2016.
- [3]. Guru Prasad Mishra, Manas Ranjan Jena, and Biswa Binayak Mangaraj, "Investigations on design and performance of Linear Cantor Array using strip dipole and V-dipole for UHF band application", IEEE conference, 2016.
- [4]. Manas Ranjan Jena , Guru Prasad Mishra, , and Biswa Binayak Mangaraj, "Microstrip Patch Antenna Design Using Fractal Slot Geometries for Multiband & Wideband Applications", IEEE conference, 2018.
- [5]. Manas Ranjan Jena , Guru Prasad Mishra, , and Biswa Binayak Mangaraj, "Design Of An Improved Microstrip Patch Antenna Using Fractal Slot Geometries On Both Patch & Ground Plane for Multiband & Wideband Applications", IEEE conference, 2018.