



SOMA DAS
Associate Professor

Centre/School/Special Centre: School of Studies of Engineering & technology

Department: Electronics & Communication Engineering

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Personal Webpage Link:

https://www.ggu.ac.in/Admin/Files/Resume/CV-Soma_Das_12.8.21.pdf

Qualifications: Ph.D. , M. E., B.Tech.

Area of Interest/Specialization: Magnetic Nanoparticles, Electrical Transport, Microwave Structures, Metamaterial.

Experience: 15+ Years

Awards and Honors:

1. Invited speaker in National Seminar on Ferroelectrics and Dielectrics, NSFD-2018, Bilaspur, India (2018).
2. Invited speaker in Joint European Magnetic Symposia JEMS 2010, Krakow, Poland (2010).
3. Awarded prestigious "*Kalpana Chawla Memorial Fellowship*" for the year 2005-2007 in Indian Institute of Technology, Kharagpur.
4. 2nd prize in paper presented in 21st National Symposium on Cryogenics. 2006
5. Ranked 38 (All India Rank) in GATE-99 in Instrumentation Engg.

Research Projects:

Completed : 01

UGC Major Research Project (April, 2013-March, 2017)

Ongoing: NIL

International Collaboration/Consultancy

Best Peer Reviewed Publication (up-to 10):

1. Mutual coupling reduction using near-zero ϵ and μ metamaterial based superstrate for MIMO application, IET Microwaves, Antennas Propagation, Robert Mark, Harsh Verdhhan Singh, Kaushik Mandal, Soma Das, 14(6), 479-484 (2020)
2. De-stabilization of charge order state through in-homogeneity in random ionic distribution in the particles of polycrystalline $\text{Eu}_{0.2}\text{La}_{0.3}\text{Sr}_{0.2}\text{Ca}_{0.3}\text{MnO}_3$ sample, Bulletin of Materials

Science, K De, P Dhak, S De, P Dutta, K Dey, S Mukherjee, S Chatterjee and S Das, 43, 112 (2020)

3. Near zero parameter metamaterial inspired superstrate for isolation improvement in MIMO wireless application, *Frequenz Journal of RF-Engineering and Telecommunications*, Robert Mark, Soma Das, 74, 17-23 (2020)
4. Isolation and Gain Enhancement Using Metamaterial based Superstrate for MIMO applications, *Radioengineering*, Robert Mark, Neha Rajak, Kaushik Mandal, Soma Das, 28, 689-695 (2019)
5. Reduced edge-to-edge spaced MIMO antenna using parallel coupled line resonator for WLAN applications, *Microwave and Optical Technology Letters*, Robert Mark, Harsh Verdhhan Singh, Kaushik Mandal, Soma Das, 61, 2374–2380 (2019)
6. Metamaterial-based superstrate towards the Isolation and Gain Enhancement of MIMO antenna for WLAN application, Robert Mark, Neha Rajak, Kaushik Mandal, Soma Das, *International Journal of Electronics and Communications (AEU)*, 100, 144-152 (2019)
7. Magnetic and electrical transport of the cation-deficient LaMnO₃: Common origin of both Sr-doping and self-doping effects, S. Das, P. Roychoudhury, S. De, S Chatterjee, and K. De, *Physica B: Condensed Matter* 544, 17-22 (2018)
8. Low-temperature localization in the transport properties of self doped La_{0.9}Mn_{0.98}Zn_{0.02}O₃, K. De and S. Das, *Bulletin of Materials Science*, 39, 293-298 (2016)
9. Strain induced enhanced ferromagnetic behavior in inhomogeneous low doped La_{0.95}Sr_{0.05}MnO_{3+δ}, S. Das, J. S. Amaral, K. De, M. Willinger, J. N. Goncalves, A. Roy, P. Dhak, S. Giri, S. Majumder, C. J. R. Silva, M. J. M. Gomes, P. K. Mahapatra, V. S. Amaral, *Appl Phys. Lett* 102, 112408 (2013)
10. Enhanced ferromagnetism and glassy state in phase separated La_{0.95}Sr_{0.05}MnO_{3+δ}, K. De, S. Das, A. Roy, P Dhak, M Willinger, J S Amaral, V. S. Amaral, S. Giri, S. Majumder, C. J. R. Silva, M. J. M. Gomes, P. K. Mahapatra, *J. Appl. Phys.* 112 103907 (2012)

Recent Books/Book Chapters/Monographs etc.: 01

Book: Recent patents in materials science - special issue - magneto electrics and multiferroics

Edited by Khurshid Zaman, Volume 7, Issues 3, 2014, pp: 220 – 225

ISSN: 1874-4656 (Online), ISSN: 1874-4648 (Print)

DOI: [10.2174/1874464807666141105204313](https://doi.org/10.2174/1874464807666141105204313)

Name of the Book Chapter:

Giant Room Temperature Magnetoimpedance in doped manganites

Authors: Soma Das and Kalyanashis De

Publisher: Bentham Science Publishers, USA

Research Supervision:

Completed : 02

❖ **Dr. Nipun Kumar Mishra (2018)**

Title of the Thesis: **Study and Design of Cylindrical Dielectric Resonator Antenna (A Casestudy for X-band Frequency Applications)**

❖ **Dr. Robert Mark (2020)**

Title of the Thesis: **Study & Design of Wideband Multiple Input Multiple Output Microstrip Antenna for Wireless Application**

Ongoing : 02

Administrative Responsibilities:

- Head, Department of ECE: From November, 2021
- Hostel Warden, Girls Hostel, GGV: From 2016 to 2021
- Program Officer, NSS: From 2012 to 2021
- Founder & Coordinator, Tarang: From 2012 to 2018
- Founder & Coordinator, Techfest, Equilibrio: From 2013 to 2014

RESPONSIBILITIES GIVEN UNIVERSITY LEVEL

- Head, Department of ECE: From November, 2021
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Additional Information: NIL

**Soma Das
April, 2022**