

Short Biography (Dr. Koushik Guha)

Dr. Koushik Guha is awarded *Distinguished Faculty Award 2021* by NIT Silchar for his outstanding performance in teaching and research. Recently he has been awarded *IETE R S Khandpur award 2022* for his achievements and outstanding contribution at national and international level in the field of **‘Medical Instrumentation’ covering education, research, design, development and production**. Dr. Guha is also awarded *Institute of Smart Structures and Systems Young Scientist* award (ISSS, IISc Bangalore) 2021 for his contribution in MEMS/NEMS sensors and actuators. **He is an optimistic researcher and Associate Professor in the Department of Electronics and Communication Engineering, National Institute of Technology Silchar (An Institution of National Importance under Govt. of India)**. He is a great leader and team worker, leading his department successfully for 13 years. *He is now an Associate Dean of Academic and former Assoc. Dean of Students Welfare in NIT Silchar*. He has been running National MEMS Design Centre in NIT Silchar with an uplifted passion. MEMS lab is helping illuminate the department by supporting so many research scholars to pursue their work. His profound interest towards MEMS designing has made him one of the leading researchers not only in NIT Silchar but in the country with research articles in highly reputed Journals. He has published more than **100 papers** in journals like IEEE, Springer, Elsevier etc. and conferences of international repute. He has authored around **25 book chapters** and one book on **“Noise in RF MEMS Switch: Modeling and Simulation”**. Dr. Guha is a *senior member of IEEE* and is a member of many professional bodies like IEE, SECI, FOSET, IIAM etc. Recently He has been nominated *Fellow of Institution of Electronics and Telecommunication Engineers (IETE) and Institute of Scholars (InSc) Govt. of India*. He has been an active and regular reviewer of (SCI/SCIE journals) and various IEEE hosted/sponsored conferences. Teaching is the heart of Dr. Guha, he deals with classes with exceptional sincerity and motivation. He believes in “students are builders of next world class technology”. He has received a number of awards like **“Sardar Vallabhbhai Patel National Reformer Award 2018”, “Outstanding faculty in engineering under VIFA 2018”, “Institute of Scholar Research Excellence Award 2020”, “Institute of Scholar Young Achievers Award 2020”** to name a few. Dr. Guha has been involved in a number of R&D projects from various Govt. organizations like *Special Manpower Development project from Meity, Govt. of India, Horizon 2020 funded International project with Tyndall National Institute of Ireland, India Italy bilateral international project etc.* and has been associated with it since a long time. Dr Guha is awarded **five international patents and one national patent**. Dr. Guha delivered many lectures in conferences, seminars, FDPs and training programs. **Currently he is nominated as Associate Editor of prestigious journal of Microsystem Technologies of Springer. He has produced 5 PhDs and currently supervises 8 no. PhD scholars in the field of MEMS and VLSI. His current research interests include mimicking human body functions using MEMS technology, RF MEMS, BIO-MEMS, MEMS energy harvesting, design and development of smart sensors for IoT, VLSI circuit design and optimization and many more.**