Introduction
Welcome to the IIT Kanpur Winter School for advanced online Training Programs on PYTHON for 5G Wireless Technology. This is a unique cutting edge Project-based training school that will feature intense PYTHON training modules and daily PYTHON projects on the latest Multi-user Massive MIMO, mmWave MIMO, NOMA, Cooperative, Cognitive Radio technologies, which form the pillars of 5G. Participants will be able to gain in-depth knowledge of PYTHON programming and practical hands-on experience of working on state-of-the-art PYTHON-based 5G projects. The programs will be held on evenings and weekends for the convenience of students, faculty and working professionals. Python is an open-source, object-oriented and a highly efficient programming language for exceptionally fast and flexible implementation of 5G systems. This can greatly benefit participants of all backgrounds as described below.

How does this program benefit YOU?

- **UG/PG students:** Learn advanced scientific-programming in PYTHON and 5G technology for projects/thesis and also conquer the job market!
- **Faculty members:** Take your research to the next level with PYTHON and also create student projects/teaching/research labs based on PYTHON programming for 5G!
- **Industry and R&D personnel:** Learn about next generation 5G systems and use our highly efficient open source PYTHON modules to accelerate your implementations!

Unleash the power of modern open source scientific computing in your career! Experience our unique Project-based hands-on learning approach for leadership in 5G technology!

About the Trainer
Prof. Aditya K. Jagannatham is a Professor in the Electrical Engineering department at IIT Kanpur, where he holds the Arun Kumar Chair Professorship, and is a well known expert and trainer on 5G technologies. He received his Bachelors degree from the Indian Institute of Technology, Bombay and M.S. and Ph.D. degrees from the University of California, San Diego, U.S.A. From April '07 to May '09 he was employed as a senior wireless systems engineer at Qualcomm Inc., San Diego, California, where he was a part of the Qualcomm CDMA technologies (QCT) division. His research interests are in the area of next-generation wireless networks, with special emphasis on various 5G technologies such as massive MIMO, mmWave MIMO, FBMC, NOMA, Full Duplex and others. He has published extensively in leading international journals and conferences. He has been recognized with several awards including the CAL(IT)2 fellowship at the University of California San Diego, Upendra Patel Achievement Award at Qualcomm, P.K. Kelkar Young Faculty Research Fellowship, Qualcomm Innovation Fellowship (QInF), Arun Kumar Chair and the IITK Excellence in Teaching Award.

Target Audience
- UG/PG Students, PhD Scholars, Faculty and Professionals

For more details and registration information, visit the website [http://www.iitk.ac.in/mwn/python5G/](http://www.iitk.ac.in/mwn/python5G/)