Introduction
Welcome to the IIT Kanpur Advanced Training School on PYTHON + R + MATLAB and SIMULINK programming for 4G/5G MIMO-OFDM Wireless Technologies. This training school is an ideal program for students, scholars, faculty and professionals seeking to learn PYTHON/ R/ MATLAB/ SIMULINK programming and hands-on implementation of the latest high-speed 4G/5G MIMO-OFDM Wireless Systems in their projects and research. Apart from featuring in-depth coverage of PYTHON/ R/ MATLAB and SIMULINK programming, various packages such as NUMPY, LINALG, MATPLOTLIB, RANDOM, MASS will also be introduced. Simulink will also be briefly introduced for graphical block-level simulation of wireless systems. Participants will complete a total of 43 projects as part of the school.

All modules will be held on evenings and weekends for the convenience of participants. A distinguished expert lecturer will cover the latest research and applications in industry. The extensive projects and introduction to PYTHON + R + MATLAB programming for 4G/5G wireless technologies can be of significant use to participants of all backgrounds.

How does this program benefit YOU?
UG/ PG students: Learn the latest programming techniques/packages in PYTHON, R, MATLAB and SIMULINK together with practical 4G/5G wireless knowledge for projects/thesis and also gain an edge in placements!

PhD Scholars/ Faculty members: Use PYTHON, R, MATLAB and SIMULINK for research and also to establish virtual labs or for project guidance in 4G/5G Wireless Technologies!

Industry Professionals: Take your skills to the next level by learning practical PYTHON/R/ MATLAB/ SIMULINK programming for 4G/5G Wireless System Modeling, Design and Analysis.

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/ATS/