

# Vivekanand Education Society's Institute of Technology



## Report on 2 days Webinar on “5G Wireless Communication Systems and the MATLAB 5G Toolbox Capabilities”



To minimize the impact of Covid-19 outbreak and to continue the Teaching-Learning process, a 2 days Webinar on “5G Wireless Communication systems and the MATLAB 5G Toolbox Capabilities” was organized by Department of Electronics & Telecommunication and Department of Electronics of Vivekanand Education Society’s Institute of Technology (VESIT), Chembur, Mumbai in collaboration with MathWorks India Private Limited, Bangalore. It was held on 12<sup>th</sup> and 13<sup>th</sup> May of 2020. The keynote speaker for the webinar was Mr. Uvaraj Natarajan who is a Senior Application Engineer in MathsWork and is associated with 5G/LTE/Wireless Communication. It was coordinated by Mr. Shobhit K. Khandare, Assistant Professor and Mr. Sanjay Mirchandani, Assistant Professor under the guidance of Mrs. Shoba Krishnan, Head of Department and Dr. (Mr.) Nadir Charniya, Professor, Electronics & Telecommunication Department.

This particular webinar was mostly organized for Faculties, Research Scholars and ME students of all the Departments of VESIT. In total there were 74 participants which includes 61 Faculties of all across the departments, 3 Research Scholars and 10 ME students. There was a vast coverage on the topic. The agenda for the first day includes Evolution of Wireless Communication, 5G requirements and use cases, key 5G physical layer features, 5G waveform generation with MATLAB examples. The second day covered the topics on Introduction to IoT, 5G Channel models, Physical Layer Simulation with 5G Toolbox, 5G Procedures and Measurements, Resources for Academia – Students and Faculty.

The main attraction of the webinar was also the quiz which was held on both the days of the webinar. It was Multiple Choice Questions (MCQ) which was held on Kahoot platform and was truly enjoyed by the participants. The questions were based on the topics covered in the webinar. The questions and four options were displayed on the host screen and the participants were supposed to record their right option by using their own cell phones.

The winner of the first quiz was Mrs. Vaishali Gatty, Assistant Professor in Master of Computer Application. The first and second runners up were Dr. (Mrs.) Saylee Gharge, Associate Professor in Electronics & Telecommunication Department and Mrs. Ramya Tirumalasetti, Assistant Professor in Humanities & Science Department respectively. The winner of the second quiz was Mr. Akshay Desurkar, ME student from Instrumentation and Control Engineering. The first and second runners up were Mr. Sanjay Mirchandani, Assistant Professor in Electronics & Telecommunication Department and Mr. Yogesh Pandit, Assistant Professor in Electronics Department respectively. Everyone actively participated in the quiz and appreciated this new format.

The Vote of Thanks was proposed by Mr. Shobhit K. Khandare, Assistant Professor in Electronics & Telecommunication Department. He thanked to the Principal, Dr. (Mrs.) J. M. Nair and Vice Principal Dr. (Mrs.) M. Vijayalakshmi for their timely support and guidance. Mrs. Kavita Tiwari, Head of Department, Electronics Department was also thanked for being the supporting pillar along with Mrs. Shoba Krishnan, Head of Department, Electronics & Telecommunication Department. A special vote of thanks was proposed to Dr. Nadir Charniya, Professor from Electronics & Telecommunication Department for arranging the speaker and coordinating the entire event. The participants were also mentioned for their huge participation in the webinar. After successful submission of feedback form, every participants were issued e-certificates through mail. It was indeed very informative and successful session on 5G.