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|  | **National Institute of Technology,**  **Tiruchirappalli – 620 015** |  |

**10.06.2020**

**IEEE Student Branch Activity Report for June 2020 – Technical Talk by Dr. K.P.Ray on 10.06.2020**

The IEEE Student Branch of NIT-Tiruchirappalli organized a technical talk via WebEx Meetings on “How Microstrip Antenna works” by Dr. K.P.Ray, Dean (Research), Head of Electronics Engineering & Computer Science Department, Professor In Charge of International Cooperation & MOU, Defence Institute of Advanced Technology (DIAT), Ministry of Defence, Pune. A registration form was created for the event, using which participants registered their basic details. Meeting link was shared with the registered participants.

Dr. Ray started with the working of microstrip transmission line. He then proceeded to explain the theory of microstrip antennas which offer several advantages like lower weight, smaller volume and lesser cost. A significant amount of time was dedicated to explain the concept of capacitance, which is an important paramter to be considered during the design of microstrip antennas. Dr. Ray then discussed the different types of microstrip antennas and compared the performance of popular configurations like rectangular, circular and triangular microstrip antennas. The concept of resonance was also explained. The technical talk was attended by UG, PG and Ph.D. scholars from CSE, EEE and ECE departments of NIT Trichy.

**Technical talk's video can be found in the link:**

[**https://drive.google.com/drive/folders/1Z8MTGOR\_LFdIHmmf07R\_cWVg3\_41kntV**](https://drive.google.com/drive/folders/1Z8MTGOR_LFdIHmmf07R_cWVg3_41kntV)