



GUJARAT TECHNOLOGICAL UNIVERSITY

Report of the One Day Workshop on RF, Microwave and Wireless Communication held on October 6, 2012 at GTU Campus, Gandhinagar

For the benefit of PG students, Research Scholars and Faculty members of GTU affiliated colleges, one day workshop on RF, Microwave and Wireless Communication was organized on October 6, 2012 at GTU Campus, (OLD GNLU) Building, Gandhinagar.



Dr. Kiran Parmar, Dr. Sanjeev Gupta, Dr. Subhash Bera and Dr. Dhaval Pujara were invited for the presentations. Members from ASPEL, Ahmedabad were also invited for demonstration on test and measurement devices for the benefit of the delegates.



The workshop began with a welcome speech by Prof. Vishvjit K. Thakar.



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In the inaugural speech, Hon'ble Vice Chancellor, Dr. Akshai Aggarwal focused on the laboratory based learning. He also stressed on enhanced learning for post graduate students. He mentioned about difference in undergraduate and post graduate teaching and said that PG Teaching should be beyond books with a focus on research papers.

Dr. Aggarwal also mentioned about the activities of GTU Board for Mobile Computing and Wireless Technologies and various research centers being established by GTU to cater to the need of the time. He stressed that it is high time to focus on research in wireless and mobile communication with blend of Embedded System and VLSI technology.





Dr. Kiran Parmar, Head, ECE Department, LDCE, Ahmedabad delivered expert talk on recent research trends in wireless communication with focus on MIMO Systems, OFDM and LTE. Dr. Kiran also highlighted the research trends in international and national institutes of high ranking. He also described potential area of research in the broad field of wireless and mobile communications such as software defined radio.



Dr. Sanjeev Gupta, Professor –DAICT made his presentations on key issues in wireless system design. He also focused on basics of mobile communications and device features. Dr. Gupta mentioned about radiation effects from the transmitters. He provided ideas or carrying out research with stress on fundamentals.

Dr. Subhash Bera, Eminent Scientist from SAC, ISRO gave presentations on Microwave Circuit Design. He described various active and passive components design used for satellite communication applications. He provided delegates with detail view on design and applications of state of art MICs.



Dr. Dhaval Pujara presented on recent trends in antenna. His talk started with fundamentals of antenna. He focused on design parameters of antenna for various applications. He gave details of microstrip antenna, smart antennas and array antenna. Dr. Pujara also discuss about tools and techniques for the antenna design for wireless and mobile communications.





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Mr. Hemant from Automation System Engineers Pvt Ltd, Ahmedabad demonstrated use of test and measurement devices of RF, Microwaves and Wireless Communication. He also provided with demonstration of handheld spectrum analyzer for carrying out various measurements.

After the series of presentation by experts, the concluding session was chaired by Prof. M.N.Patel. Prof. Patel in his concluding speech mentioned to address the congestion issued that may affect the speed of digital data traffic. He also congratulated delegates for attending the session for the entire day.



The workshop obtained overwhelming response and registration has to be closed within two days of the announcements. About 175 members showed interest out of which around 120 participants remained present from various parts of the state.



Feedback from participants:

- I thank all of you for such nice arrangement. The cause behind the workshop is very well satisfied. We look forward for such workshops on different subjects' also. The gap between University course and current trends is reduced. Once again thank you and congratulations for successful event.

- Sunny Mujpara (PG Student-LDCE, Ahmedabad)

- It was best experience me to get Knowledge regarding Microwave and Radio Frequencies. In Workshop I also get the Knowledge of Various Types of Antennas used by any Technology for the Communication. Experts who have given their presentation was Nice and Best to My Knowledge.

- Divyesh Chotaliya (H.O.D., MCA-N. J. Sonecha Management & Technical Institute)

- It was pleasure being there at the workshop. We are so grateful to GTU for conducting this workshop. We sought the best and useful knowledge from your workshop. Hoping for more support from GTU to enhance and enrich our knowledge in our field.

- Students(Government Engineering College, Gandhinagar)

- Workshop was beneficial especially for those who want to work in antenna and microwave field. I would like to thank organizers who thought of such great idea which would help me in my future studies.

- Kinjal Dave(Research Scholar-SU)

- It's a very good opportunity for me to being a part of this seminar. Also, good for improve my knowledge and knowing about the latest trends in the world. I hope number of this kind of seminar will be increased. And thanks to all the organizers.

- Rushit K Chokashi(PG Student-SPCE, Visnagar)