



GSSS | GEETHA SHISHU
SHIKSHANA SANGHA(R)
**INSTITUTE OF ENGINEERING
AND TECHNOLOGY FOR WOMEN**

(Affiliated to Visvesvaraya Technological University, Belagavi, Approved by AICTE New Delhi & Govt of Karnataka)

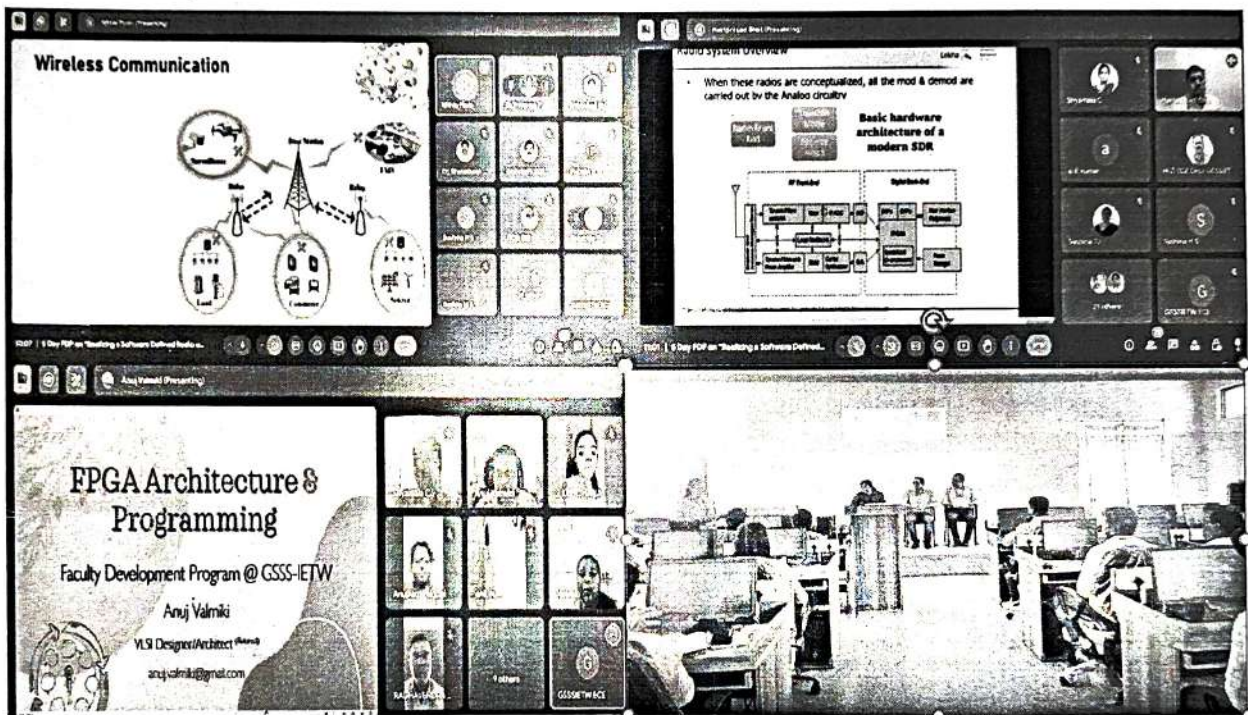
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PRESS REPORT

Five Days Faculty Development Program on “Realizing a Software Defined Radio using FPGA” held at GSSSIETW, Mysuru on 20th -24th May 2024.



Glimpses of FDP organized during 20th May to 24th May 2024

Department of ECE, GSSS Institute of Engineering and Technology for Women, Mysuru, has successfully conducted Five Day Faculty Development Program (FDP) on “Realizing a Software Defined Radio (SDR) using FPGA” in association with IEEE CAS Society and IEEE Student Branch, GSSSIETW from 20th to 24th May 2024 at GSSSIETW, Mysuru. The program received an overwhelming response with more than 30 enthusiastic participants. The attendees represented various institutions, including REVA University, Presidency University, NITTE Meenakshi Institute of Technology, RNS Institute of Technology Bangalore, Sharnabasva University Kalaburagi, SDMIT Ujire, JSS Science and Technology University, VVIET, MRIT Mysuru and GSSSIETW Mysuru. The FDP was conducted for five days, with three days

conducted in online and two days in offline mode offering thorough understanding and practical insights into implementing Software Defined Radio using FPGA technology.

The five-days FDP on “Realizing a Software Defined Radio using FPGA” featured sessions by experts from Industries namely Lekha Wireless Solutions and Qualcomm, Bangalore covering various aspects of SDR and FPGA technology. On the first day, Hariprasad Bhat of Lekha Wireless Solutions Pvt Ltd introduced SDR, its benefits, and the digital architecture of modern SDRs, followed by Prathima S., who discussed the importance of wireless communication in defense and the interaction between protocol and physical layers. The second day included presentations by Nithin Pinto of Lekha Wireless Solutions Pvt Ltd on the AD9361 RF Agile Transceiver and Mr. Ronston Kevin, Senior FPGA engineer of Lekha Wireless Solutions Pvt Ltd, spoke on Xilinx Zynq SoC (System on Chip), a powerful platform for Software-Defined Radio applications, providing a comprehensive overview of their features and applications. On the third day, Roja C. covered OFDM waveform concepts, while Anuj Valmiki Ramanujan, Bengaluru begin with the evolution of FPGA technology and discussed about various FPGA boards. The fourth day featured an offline session with Namratha, Design Engineer from Qualcomm, Bangalore who introduced the SDR/USRP NI B200 kit and conducted a hands-on session using GNU Radio and Vector network analyser. On the final day participants had an industrial visit to LAHARI - Advanced Electronics Test Facility at Mysuru. The FDP provided participants with a deep understanding of SDR system architecture, wireless communication concepts, OFDM waveform, FPGA architecture & programming, and hands-on experience with USRP implementation.



Glimpses of Valedictory function photos in 5-days FDP organized during 20th to 24th May 2024

The Faculty Development Program concluded with a valedictory function held on 24th May 2024. Mr. Srinivasa B A, Senior Delivery Manager, L&T Technology Services, Mysuru was the Chief Guest of the valedictory program, he shared insights on Industry Trends and the future of VLSI, Wireless Communication & IoT. He elaborated on co-creating the next generation of mobility, Telecom & Hi-Tech connectivity, Industrial products with Infusing technologies, Plant engineering, and Aerospace.

Certificates were distributed to the FDP participants and coordinators. Dr. Shivakumar M, the Principal, highlighted the significance of Software Defined Radio in modern technologies. He encouraged participants to apply their newfound knowledge and expertise in both academic and professional pursuits, stressing the importance of continuous learning and innovation in the field of electronics and communication engineering. The Programme was coordinated by Dr. Shyamala. C, Dr. M. V. Sreenivas Rao, Dr. Asha.M and Dr. Latha.M from Dept of ECE, GSSSIETW, Mysuru.

Smt. Vanaja B Pandit, Hon. Secretary, GSSS(R), Sri Bharath R K, Member & CEO GSSS(R) and Smt. Anupama B Pandit, Board member and AO, GSSS(R) congratulated the team for the successful conduction of the FDP.

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