

TIFAC
Centre of Relevance and Excellence
In
WIRELESS TECHNOLOGIES



Progress Report-Phase I



Thiagarajar College of Engineering
Madurai – 625 015



THIAGARAJAR COLLEGE OF ENGINEERING

- Established in the year 1957.
- Central and State Government Aided Institution
- Granted autonomy in 1987 by UGC
- Affiliated to Anna University
- Approved by AICTE
- Accredited by National Board of Accreditation
- ISO 9001 : 2000 certified
- Nine Undergraduate Programmes
- Eleven Postgraduate Programmes and
- Doctoral Programmes in Engineering and Sciences
- Founder : **Late Karumuttu Thiagarajan Chettiar**
- Chairman : **Dr. Mrs. Radha Thiagarajan**
Former Vice Chancellor, Alagappa University
- Vice-Chairman &: **Karumuttu T. Kannan**
Correspondent
- Principal : **Dr.V.Abhai Kumar**



MISSION - REACH & TIFAC – CORE

Mission REACH (Relevance & Excellence in Achieving new heights in educational institutions) launched by TIFAC aims to create a constellation of world class COREs- Centre of Relevance & Excellence - in diverse disciplines across the length & breadth of the country. The mission intends to create 80-100 such COREs, which together will emerge as a network across the country. Mandated to turn out top quality human resource in the area of targeted excellence, which shall be utmost, relevant to Indian industries & society.

TIFAC-CORE, an idea that is simple yet vastly powerful, each CORE will be the outcome of the funding , infrastructure, expertise , knowledge and commitment brought together by the user industry, educational institute and government. Every one of them a center of excellence, with the best of teachers, students and researchers, entrepreneurs and industries, this network of COREs will become a powerful and important resource to realize the dream of developed India by 2020. A resource that is soon to crystallize into a reality, as can be seen by the number of COREs that are already successfully functioning in various parts of the country.

TIFAC - CORE in Wireless Technologies

- In the global scenario, convergence of telecom, computer and media has led to a new paradigm in the way people to communicate, conduct business and handle many other aspects of day to day activities
- As the wireless revolution moves from 2G to 3G to 4G, it is expected that there will be substantial improvements in the bit rates and services fro wireless communication systems.
- The wireless systems of the future would require interoperability and multi-mode & multi-band functionality. This requires a combination of powerful DSPs, ASIC accelerators and RF design with optimized hardware and software partitions to minimize cost and power consumption.
- TIFAC CORE at Thiagarajar College of Engineering would strive to establish state of art infrastructure in wireless technologies.



Vision

To become world class training, research and product development centre in wireless technologies

Objectives

- To generate trained manpower in emerging Wireless Technologies
- To train Engineers from industries and government organizations in the area of wireless system design and testing
- To carryout collaborative research and product development in the allied areas of wireless technologies