

**Area / Group Name:** Distributed Systems, Computer Networks, Wireless Networks

Wired and wireless networks of connected devices are the backbone of modern computing era. Most common form of computing model for such networks is: distributed systems. Cloud computing, internet of things and personal area and ad hoc network stack are topics of interest among peers in this area. Department of Electronics and Information Technology focuses on networking technologies, advanced computing and high performance computing techniques, systems and applications. Communications and Networking and Network Management Systems have been identified as research areas by Centre for Artificial Intelligence and Robotics (CAIR). Department of Science & Technology, Science and Engineering Research Council promote R & D in Wireless Communication. ACM recognized these as emerging areas and established SIGHPC in 2007. ACM Transactions on Sensor Networks and on Autonomous and Adaptive Systems were started in 2006 each. ACM Transactions on the Web was started on 2007. IFIP established WG 2.14/6.12/8.10 - Service-Oriented Systems for focused work in this area.

Currently, **29** faculty members are working in this broad area. **Seven** Ph.D. has been completed and **8** more are in progress. Design of Accelerating Techniques for Performance Issues in RFID Systems has culminated in a doctoral thesis in the department. Many others addressing Cost Effective Survivable Cellular Access Network, Design of Resource Allocation and scalability Schemes in Cloud and Distributed Environments etc are under progress. Our publications in this area include more than **138** research papers and **1 Book Chapter**. 52 M.Tech and more than **430** B.Tech projects have been completed in this area.

Courses focusing on detailed coverage of network programming, Wireless Sensors and Mobile Adhoc Networks programming, Multimedia and Wireless Networks and Advanced Mobile Computing, Distributed Computing, Network Programming ,Cloud Computing and Performance Evaluation of Computing Systems etc. are offered.