



Indian Institute of Information of Technology, Allahabad

About IIT-A:

IIT-A established in 1999, as a centre of excellence in information technology and allied areas, was conferred the “Deemed University” status by Govt. of India in the year 2000. The platform is laid to meet economic challenges being thrown up by the rapid global IT revolution, which is influencing virtually every area of development and social activity.

About WCC:

Wireless technology is rapidly evolving and playing a major role to make life easy, automated and mobile throughout the world. Ever-large numbers of people are relying on this technology in their day to day life directly or indirectly. Starting from cellular phones, satellite television, remote garage-door openers, cordless computer peripherals, to Wireless LAN, WPAN , Wi-Fi, Wi-Max, GSM, GPRS, EDGE, WAP, i-mode have become very popular for a well advanced and developed civilization. The industry is experiencing exponential growth rates in wireless communication systems, ubiquity of mobile devices, and deregulation of former monopolized markets.



M.Tech (I.T.) Wireless Communication & Computing

We connect the world wirelessly

Visit our Web-site: <http://wcc.iiita.ac.in>

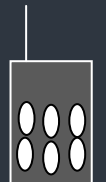
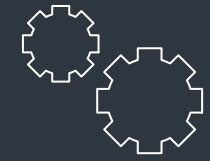
We Students:

- The best students in the country who secure very good rank in GATE are chosen for this programme based on extremely rigorous written exam followed by coding test and personal interviews.
- Students come from diverse engineering backgrounds like Computer Science, Electronics and communication and Telecommunications.
- Students with excellent coding skill which they prove every time in online coding competitions.
- Students with prestigious Networking certifications like CCNA, CCNP.
- Students are groomed to be well suited for new emerging technologies of wireless domain, software and R&D industries.



Course Outline:

- Wireless Networks
 - Wireless Transmission and Media Access
 - Network Protocols
 - Signaling and Communication
 - TCP for Wireless Networks
 - Mobile Intelligent Networks
 - Distributed System
 - Information and Network Security
 - Wireless Sensor Networks
 - Cryptography
 - Mobile Database Management
- Followed by Comprehensive thesis work on a domain of students' interest where they have to contribute a new work to technology world.



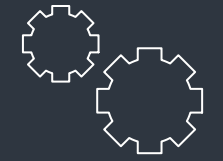
Sponsored Project:

- Methods for compensation and localization of interfaces in ultra wide band wireless sensor network (Indo-Russian project).
- Disaster Management for large scale deployment of sensor network using a fault tolerant system.
- Multihop reprogramming for wireless sensor network.
- Audio visual retransmission through wireless sensor network.
- Implementing Bluetooth security protocol for wireless sensor network.
- Audio streaming through sensor.
- Algorithms for Distributed Wireless Sensor Network



Thesis domain of current students:

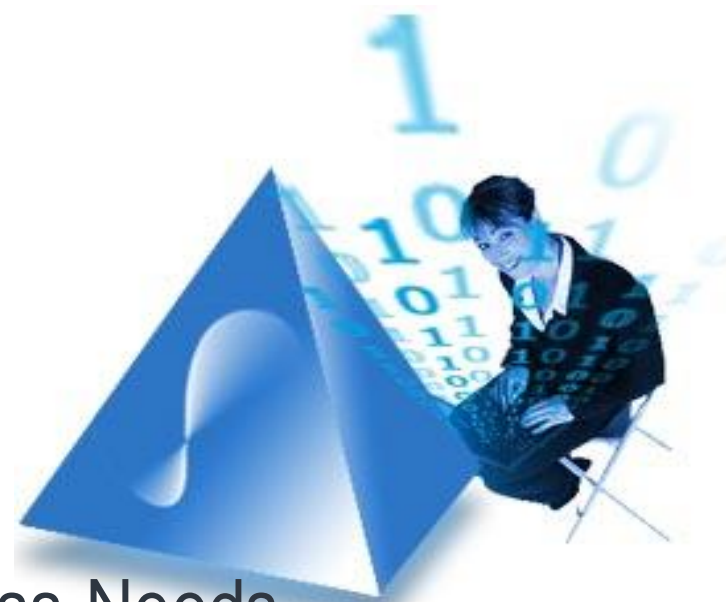
- Wireless Security
- Application Development on Mobile Platforms
- Mobility and Location management in Wireless Network
- Mobile Intelligent Networks
- Service Oriented Architecture
- Vehicular Ad hoc Network
- Wireless Sensor Network
 - Data gathering
 - Security
 - Fuzzy Logic applications.



Students' Strength:

- Programming skills
C, C++, Java, C#, PHP, Shell Programming, J2EE.
- Network administration & management.
- Mobile OS and application development
Android, bada, Windows Mobile, J2ME
- Security attacks and defenses
- Communication skills
- Management Skill

I.T. Talent For Your Business Needs

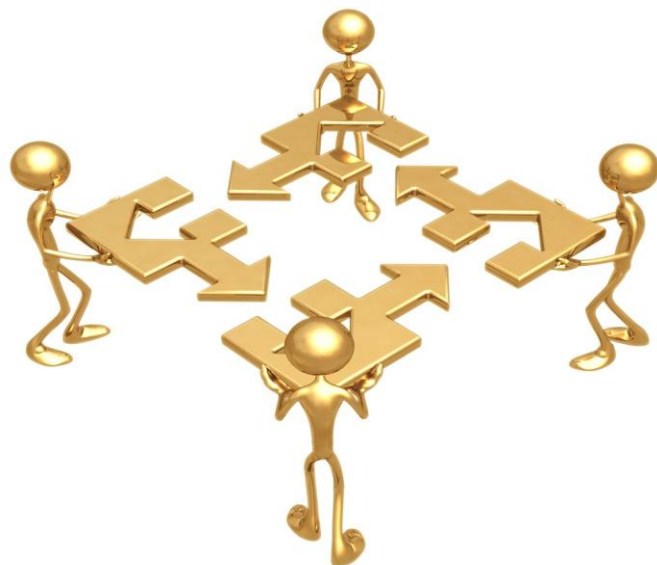


Lab & Research Facilities:

The department takes pride in its laboratory facilities which cover all the major aspects of Wireless Communication and Information Technology. The labs impart sound practical skills to students with numerous projects being researched in them. Students have round the clock access to each of these labs, namely:

- Advance Programming Lab
- Communication Systems Lab
- Mobile Communication Lab
- Wireless Sensor Lab

Our students also have access to rich online study resources of IEEE, ACM, Science Direct, IAS, OAJSE, Springerlink, etc.



Our Collaborations:

- State University of New York, Buffalo, USA
- Korea Institute of Science and Technology
- EPFL, Laussane, Switzerland
- Carnegie Mellon University, USA
- ETZ, Zurich, Switaerland
- CTIF, Aalborg University, Denmark
- HP Labs
- IBM
- EMC2

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