



Research Profile of Electronics & Communication Engineering Department & Instrumentation & Control Engineering Department:

With its huge infrastructure, eminent and efficient faculty members the department is in a continuous process of producing quality research works.

Publications:

1. "WAAS: The Future of GPS Navigation", **Anindya Ghosh**, et. al., *Proceedings of National Conference on Device, Intelligent Systems, Communication & Networking, 2008, pp.*
2. "A Crucial Milestone in Network Solution: Optical Network", **Anindya Ghosh**, et. al., *Proceedings of National Conference on Device, Intelligent Systems, Communication & Networking, 2008, pp.*
3. "Network Security and Survivable Network", **Anindya Ghosh**, et. al., *Proceedings of National Conference on Device, Intelligent Systems & Communication & Networking, 2008, pp.*
4. "Wireless Communication beyond 3G and Convergence of Internet and Mobile Communication Systems", **Anindya Ghosh**, et. al., *Proceedings of 3rd Innovative Conference on Embedded Systems, Mobile Communication and Computing, 2008, pp.*
5. "A Study of Emerging Optical Network Management", **Anindya Ghosh**, et. al., *Proceedings of Indian Conference on Trends in Modern Engineering Systems, 2008, pp.*
6. "A Study of Passive Optical Networks (PONs) to Solve the Existing Bottleneck for Broadband Access", **Anindya Ghosh**, et. al., *Proceedings of 2nd National Conference on Recent Trends in Information Systems 2008, 2008, pp.*
7. "To Develop and Optimize Hybrid Networks and a New Concept DRIVE that Step Beyond 3G", **Anindya Ghosh**, et. al., *Proceedings of National Conference in Emerging Trends in Information Technology, 2007, pp.*

8. "Performance Evolution in 3rd Generation WCDMA for High-Speed Data and Voice Communication Services", **Anindya Ghosh, et. al.**, *Proceedings of 22nd Indian Engineering Congress, 2007, pp.*
9. "Optimization of Base Transit Time in Heterojunction Bipolar Transistor (HBT) Employing Neuro-Genetic Approach", **Anindya Ghosh, et. al.**, *Proceedings of International Conference on MEMS and Semiconductor Nanotechnology "MEMSNANO", 2005, pp.*
10. "Influence of Wave Function and Modulation on the High Frequency Response of Two Dimensional Hot Electrons in Quantum Wells of Polar Semiconductor", **Anindya Ghosh, et. al.**, *Proceedings of National Conference on Physics of Electronic Materials and Devices, 2005, pp.*
11. "Studies and Performance Analysis of an Integrated Energy Systems", **Anindya Ghosh, et. al.**, *Proceedings of Non-Renewable Energy Conference "NREC", 2000, pp.*
12. "Studies of Integrated Energy Systems", **Anindya Ghosh, et. al.**, *Proceedings of Academic Meet, 2000, pp.*

Areas of Interest:

The following are the thrust areas where the Department is working currently:

- **Network Security**
- **Wireless Communication**
- **Robotics**
- **Designing Neuro-Fuzzy Controllers for Robust Control**
- **Application of Soft Computing Techniques in Tele-Medicine & Antenna Design**