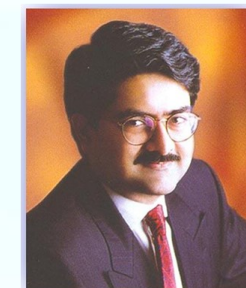




# Birla Institute of Technology & Science, Pilani

## Hyderabad Campus

### Integrated Master's Program in Computer Science with specialization in *Information Security* from Aug 2012



"What is it that can empower our nation? The most obvious answer is education. Education that enhances livelihoods but also education that is value-based. Education that gives roots and gives wings as well".

—Dr. Kumar Mangalam Birla  
Chancellor, BITS, Pilani

#### Unique Features of BITS Pilani University

- Multicampus with campuses @ Pilani, Dubai, Goa and Hyderabad
- Admission only on merit through a unique computer based on-line admission test
- 20 – 30 Board toppers join every year
- Modular and flexible academic structure
- Continuous internal transparent evaluation system
- Large number of Alumni in top positions in India and abroad
- Collaboration with foreign universities of repute



#### Department of Computer Sc. @BITS Hyderabad

The Department of Computer Science and Information Systems at BITS Hyderabad strives to produce engineers of tomorrow by imparting instruction with advanced curriculum, and research methodologies in modern areas of computer science and engineering.

- 600 students at UG, PG and Ph.D. levels
- Faculties with Ph.D. from IIT/BITS/NITs/Abroad
- Remarkable placement record of 87% with average pay of 7.70 lakhs for 2008 batch
- Recruiters like Microsoft, Oracle, Computer Associates, EMC<sup>2</sup>, Morgan Stanley, Nvidia Graphics, Intel, Polycom etc. have offered jobs to CSE students
- Ongoing research in the areas of computer networks, soft computing, data management, distributed systems, network security and software engineering
- Sponsored research funding to the tune of One Crore from UGC, DIT, TCS etc.



To get a hands-on research experience on the latest technologies of Networks, Security, Databases, Software Engineering etc., that too under the guidance of faculty expert in their respective areas, is a great advantage for any research student @ cse.bitsyderabad. The research facilities and resources are excellent. Innovative and out-of-the box thinking is encouraged and inculcated, and that's what is the best part!

Pratik Narang, Research Scholar

#### List of Courses for Integrated Masters program in Computer Sc. with specialization in Information Security

##### Core Courses

- Computer Programming
- Technical Communication
- Probability and Statistics
- Digital Electronics & Microprocessors
- Discrete Structures for Computer Science
- Number Theory
- Principles of Management
- Optimization
- Theory of Computation
- Computer Architecture & Organization
- Object Oriented Programming & Design
- Principles of Programming Languages
- Data Structures & Algorithms
- Operating Systems
- Computer Networks
- Database Systems
- Software Engineering
- Design and Analysis of Algorithms
- Advanced Algorithms and Complexity
- Advanced Operating Systems
- Advanced Computer Architecture
- Advanced Computer Networks
- Research Practice
- Network & Systems Security
- Cryptography
- Information Law and Cyber Law
- Computer Crime and Forensics
- Ethical Hacking
- Secure Software Engineering

##### Elective Courses

- Software Testing
- Artificial Intelligence
- Data Mining
- Data Storage Technologies & Networks
- Database Security
- Object Oriented Analysis and Design
- Cloud Computing
- Advanced Cryptography
- Web Services and Security



The CS department provides excellent facilities to work and explore the aspects of studies and research. The academics and outstanding faculties help in drilling into the practical domain of the subjects. BITS Pilani, Hyderabad Campus, in the lap of nature and a beautiful place, which not only enhances the studies and research domains well as the overall development of thinking and personality. It's "MAGIC!!"

Vikramaditya Raj, ME CS Student



#### Faculty expertise in Information Security area at BITS Pilani

- Prof. A Ramu, PhD, IIT, Mumbai
- Mr. Abhishek Thakur, MS, Capella University, Minneapolis, USA
- Dr. Aruna Malapati, PhD, NITK, Surathkal
- Prof. Balram Dube, PhD, IIT, Kanpur
- Prof. Bharat Deshpande, PhD, IIT, Mumbai
- Dr. Biju Raveendran, PhD, BITS Pilani
- Prof. Chittaranjan Hota, PhD, BITS Pilani
- Mr. Digambar Povar, MTech, NIT, Warangal
- Dr. Geethakumari G, PhD, University of Hyderabad
- Dr. Gururaj R, PhD, IIT, Chennai
- Prof. J P Misra, ME(BITS, Pilani)
- Prof. K C S Murti, ME, BITS Pilani
- Dr. N L Bhanumurthy, PhD, IIT, Mumbai
- Prof. Navneet Goyal, PhD, IIT, Roorkee
- Dr. Poonam Goyal, PhD, IIT, Roorkee
- Prof. Rahul Banerjee, PhD, Amravati (MS)
- Prof. Sudeept Mohan, PhD, BITS Pilani
- Prof. Sundar Balasubramaniam, M.S, Indiana University, USA
- Dr. Tathagata Ray, PhD, OSU, Ohio, USA

#### Salient features of the program

- Eligibility: A three year B.Sc. Degree or its equivalent (with Mathematics and Physics as subjects and at least one of these two as main subject(s)). A minimum of 60% aggregate in qualifying examination is required
- Admissions will be based on performance in online test conducted by BITS, Pilani
- Duration: Four year integrated ME
- Students admitted to the Higher Degree programme will also be considered for Teaching assistantships to the tune of upto Rs. 8000 p.m. in addition to partial tuition fee waiver scheme starting from the third year of the programme
- In the first and second year of study the students would be eligible for various merit scholarships of the institute
- Students will have the opportunity to spend upto two semesters on industry internship or thesis in their fourth year
- Courses and laboratories are designed keeping industry needs in mind and aiming to develop manpower for high-end research focused industrial jobs

For applying on line on or before 30th May 2012, please visit:

<http://www.bitsadmission.com/IHD/ihdmain.htm>

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