BCA in Cloud Technology

Objective

BCA in Cloud Technology provides sound academic base for advanced career in computer application to work on various cloud services to solve the real time problems.

What is Cloud Computing?

Cloud Computing is the on-demand delivery of computer power, infrastructure, applications, storage and other IT resources through a cloud services platform via the internet with pay-as-you-go pricing.

Benefits of Cloud Computing

+ Flexibility
+ Disaster Recovery
+ Automatic Software Updates
+ More Cost Efficiency
+ Increased Collaboration
+ Work from anywhere
+ Security
+ Competitiveness
+ Environmental Friendly

Why Cloud Computing?

+ **Personal clouds for everyone**: With today's digital lifestyle, just about anyone can make use of the cloud. In fact, you can get yourself a free cloud drive with plenty of storage from any of a number of providers: Amazon Cloud Drive, Google Drive, Microsoft, SkyDrive, Dropbox
+ **Big savings for big business**: The bigger the company, the more money is typically invested in IT. Large businesses and corporations can realize substantial savings by converting to either a partial or full cloud environment.
+ **Small and mid-sized companies**: With cloud computing, upgrading your IT infrastructure is fast and inexpensive. Since you pay only for the space and services you need, it's simply a matter of adding more components through your cloud service provider
+ **Entrepreneurs**: Starting a business can be an expensive proposition. With cloud computing, entrepreneurs can save significantly on start-up costs, since there's no need to invest in a massive or complicated IT infrastructure. If you have a decent PC and an Internet connection, you can tap into all the storage space you need

Facts

+ Every day, we create 2.5 quintillion bytes of data
+ There are 383 million smartphone users and 243 million internet users in India at present
+ 2.7 Zeta bytes of data exist in the digital universe today
+ Facebook stores, accesses and analyzes 30+ Petabytes of user generated data
+ Akamai analyzes 75 million events per day to better target advertisements
+ Walmart handles more than 1 million customer transactions every hour which is imported into databases estimated to contain more than 2.5 petabytes of data

Why should you join BCA in Cloud Technology?

- The program will produce graduates who will be competent professionals in IT industry, academics, government, or entrepreneurs.
- Cloud In great demand for networking, storage and sharing.
- Based on a pay-as-you-go approach eliminating the need for up-front financial commitment.
- Cloud is used in computational financing, data mining, social networking, gaming, high-energy, physics, engineering applications.
- AWS, Microsoft and Google are the leaders in providing cloud services.

To meet this demand, iNurture has designed this unique specialization program and the learning experience as follows:

- Program offers flexibility to students in making their career choices in either of the niche areas or in a combination of them
- Unique learning path that teaches technical skills, enhances non-technical skills that are topped-up with orientation by industry experts thus significantly improving Industry Readiness Quotient
- Offers opportunities for Value Added Programs that compliments learning through academic curriculum
- Acquire knowledge of fundamental concepts, design strategies, technical architecture, infrastructure requirements, services, deployment model, tools and techniques required for Cloud application development and deployment through syllabus designed in alignment with latest trends
- Accelerate understanding through application-oriented and student-centric learning
- Augment curriculum with pragmatic approach through projects, knowledge exchange forums and sessions by professionals

What job opportunity awaits you?

- Networking Trainee
- System Administrator-computer
- Server Administrator
- Software Engineering Trainee
- Database Administrator
- Cloud Administrator
- Virtualization- Systems Engineer

Learning Path

Foundation Level: Computer Architecture & Organization, Operating Systems, Shell Scripting, Data Structures using C and other programming languages

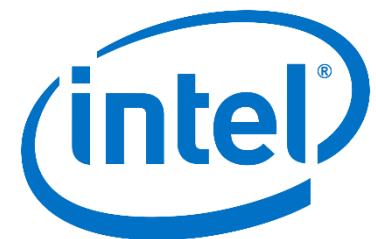Intermediate Level: Computer networks, Windows Server 2012R2/2016 administration, Linux administration, SQL and NoSQL Database Management System.

Professional Level: Virtualization on VMware ESXi and Microsoft Hyper-V, Software Defined Data Center, Microsoft Azure and AWS.

Career opportunities with the companies on Cloud Technology

BCA in Information security

Objective

On the **Information Security** front, this program equips the students with the concepts and the technical skills needed to secure Information and also creates awareness to different vulnerabilities, corrective measures and protection. The focus of the program is on the concepts, tools and techniques for enforcement of Security Policies, with emphasis on Ethical Hacking, and Computer Forensics.

What is Information Security?

IT security is the protection of computer systems from theft or damage to their hardware, software or electronic data, as well as from disruption or misdirection of the services they provide. The field is of growing importance due to increasing reliance on computer systems, the Internet and wireless networks such as Bluetooth and Wi-Fi.

Information security in India has come a long way in the past few years and has gained huge importance in recent times with the thrust on Digital India, e-commerce and mobile payments. Need for awareness, learning and formal education on Information Security is also trusted upon the society due to increasing threats and attacks resulting in data breaches.

Why Information security?

Information security is all about protecting the confidentiality, integrity and availability of information. We need information security to reduce the risk of unauthorized information disclosure, modification, and destruction therefore it is needed in all the below domain.

- Government,
- Military
- Financial organizations,
- Hospitals,
- Corporations,
- Education institutions

Why should you join BCA in Information Security?

The need for studying information security in a formal degree program has seen an exponential growth in the last decade mostly fueled by explosion in the use of Internet, extensive penetration of smartphones, increasing use of e-commerce, e-banking and the social media. Information Security plays a vital role in ensuring the safety of digital economy. Today Information Security has become an important enabler for the growth engine of a country's development and economy. Hence any attack or threat on Information security impacts the growth directly or indirectly

Facts

- India is the third most vulnerable country to cyber threats.
- WannaCry ransom ware attack was estimated to have affected more than 200,000 computers across 150 countries, with total damages ranging from hundreds of millions to billions of dollars.
- Kids With Cell Phone More At Risk Of Cyber-Bullying.
- Social Media is a hacker's favorite target.
- 99% of computers are vulnerable to exploit kits.

- The cyber security market is expected to grow from USD 138 Billion in 2017 to USD 232 Billion by 2022, at a Compound Annual Growth Rate (CAGR) of 11.0%.
- The major forces driving the cyber security market are strict data protection directives and cyber terrorism. The cyber security market is growing rapidly because of the growing security needs of Internet of Things (IoT) and Bring Your Own Device (BYOD) trends, and increased deployment of web and cloud-based business applications
- Cyber security Ventures predicted that cybercrime will cost the world $6 trillion annually by 2021, up from $3 trillion in 2015

To meet this demand, iNurture has designed this unique specialization program and the learning experience as follows:

- Program offers flexibility to students in making their career choices in either of the niche areas or in a combination of them
- Unique learning path that teaches technical skills, enhances non-technical skills that are topped-up with orientation by industry experts thus significantly improving Industry Readiness Quotient
- Offers opportunities for Value Added Programs that compliments learning through academic curriculum
- Acquire knowledge of fundamental concepts, design strategies, technical architecture, infrastructure requirements, services, deployment model, tools and techniques required in Big Data Analytics through syllabus designed in alignment with latest trends
- Accelerate understanding through application-oriented and student-centric learning

What job opportunity awaits you?

- IT security Consultant
- Junior threat research
- Security Analyst Fresher
- VAPT Intern
- VAPT Professional
- Network Security Fresher
- Cyber Security Analyst

Learning Path

Foundation Level: Basic Knowledge of data analytics and SQL, Computer Architecture & Organization, computer network, Operating Systems, Database Management System, UNIX and Shell Scripting, Data Structures using C and other programming languages.

Intermediate Level: Special experiment to align with the chosen dual specialization, Database security fundamentals, Ability and willingness to increase knowledge of various operating systems including Windows, MAC OS, Linux and others.

Professional Level: Emphasis on both tools and techniques, Ethical hacking, hacking methodology, privilege access methods, finding vulnerabilities in system, digital forensic, phases involve in digital forensic, data acquisition, forensic report writing and how to present evidence inside court room.

Career opportunities with the companies on Information Security