



## IBM Innovation Center for Education

## 1. B Tech in Computer Science with Specialization in Cloud Computing & Virtualization

The next wave of computing is in the Cloud! Increasingly businesses want to get out of the complexity of managing data centers and instead focus on their core competencies. This means that more and more businesses will adopt cloud computing as a means to handle their IT requirements which gives them the freedom from day-to-day management of IT infrastructure.

Cloud Computing is one of the fastest growing paradigms in the IT industry today. As per a leading research firm IDC, worldwide spending on Cloud services will reach \$42 billion by 2012.

This B.Tech program with the specialization in Cloud Computing & Virtualization will help students understand Cloud Computing and Virtualization technologies. Cloud Computing is very much a work in progress at this time and so while the course comprehensively covers the basic technologies involved, the history of the cloud and its roots in Service Oriented Architecture and Utility Computing, it has ample scope to take in the fast changing models that are thrown out by cloud computing. Students of this program will also benefit from the several practical credits that provide hands-on capabilities on the various aspects of cloud.

### Career Options

More and more IT vendors are now moving over to offer to their customers their software, application, hardware, storage, and services over the new Cloud computing model, the requirement of skilled resources will continue to grow in size and complexity. A career in Cloud computing, therefore, will remain in great demand for several years, going forward. This is an emerging computing model which delivers IT related capabilities as a Service, over the internet, and one which promises much better ease of use, economies of scale and much greater flexibility in sourcing and adapting to change. Virtualization, Service Oriented Architecture, Software as a Service, Hardware as a Service, Platform as a Service, Business Process as a Service are all technologies and delivery mechanisms that comprise Cloud Computing.

Large System Integrator / ISV organizations help clients drive new innovations in a safe, scalable and accessible way, keeping in mind best practices in Service-Oriented-Architecture, Service management, virtualization, security, and information on demand, application services and business process management. A B.Tech program with specialization in the area of Cloud Computing & Virtualization, therefore, adds tremendous value to an aspiring student.

The B. Tech program in Computer Science with specialization in Cloud Computing & Virtualization prepares you for an exciting career in the following areas;

- **Cloud Solution Architects**
- **Cloud System Administrator**
- **Cloud Security Specialist**
- **Cloud Application Development/Maintenance/ Testing**
- **Migration and Modernization Specialists**
- **Cloud Project Management**

## 2. B Tech in Computer Science with Specialization in Business Analytics

The world has become smarter - The humans have started interacting in various modes in their normal life and the way they are interacting for their business and domestic needs is drastically changing. The amount of data generated because of these actions is tremendous. So the enterprises want to understand this data and provide them a better customer service and gain their confidence to improve their business. The effect is profound and can be seen across all the Industries i.e. Telco, Insurance, HealthCare, etc.

Business analytics (BA) refers to the skills, technologies, applications and practices for continuous iterative exploration and investigation of past business performance to gain insight and drive business planning. Analytics may be used as input for human decisions or may drive fully automated decisions. Analytics have been used in business since the time management exercises that were initiated in the late 19th century. IBM Business Analytics software helps your organization better understand, anticipate and shape business outcomes.

### Career Options

A career in Business Analytics is one of the primary focus areas in the Industry and is gaining lot of recognition and adaption across many industries. Since there are very few companies in the end to end hardware to software solutions for Business Analytics IBM is very poised to leverage on this space. Many companies in are in need of knowledgeable resources in this area and has become a main challenge. This course will help the professionals to tap on the huge requirements and help the society.

- **Database Administrator**
- **Business Analytic Specialist**
- **Business Analytic Modeler**
- **Data Mining Specialist**
- **Statistical Analyst (SPSS)**
- **Business Intelligence Specialist (Cognos)**
- **Data Warehousing Specialist**

