Subject Name	Description
Cloud Technology	Cloud computing is a colloquial expression used to describe a variety of different computing concepts that involve a large number of computers involves a large number of computers that are connected through a real-time communication network. In science, cloud computing is a synonym for distributed computing over a network and means the ability to run a program on many connected computers at the same time. This course covers basic concepts of cloud types, services and security etc.
Cloud Computing Solution	Understanding & working on various cloud services provided by Microsoft Azure .The Services mainly into computing storage & web application.
Ethical Hacking	The course primarily covers the Ethical hacking methodology and its different stages which include the Foot printing, Scanning, Enumeration and System hacking techniques and a broad knowledge about white box and black box testing. The Unit describes a wide range of attacks that can cause adverse negative effects on IT systems that include Denial of service, Session hijacking and severe vulnerabilities that can be seen in Web Applications. The Unit also covers hacking attacks caused in other Operating System environment like Linux and the secret techniques to Evade Firewalls. The Unit not only captures valuable information on vulnerabilities and threats but also covers an effective way of report making methodology that can helps the top level management to take immediate decisions on mitigating the threats. The course enables students to better understand the Ethical hacking concepts and various phases of hacking along with the objective of providing an in-depth knowledge on Web Application vulnerabilities and exploitation techniques. To familiarize them with the wide range of attacks in a Networking environment and to enable him/her to prepare a well-defined vulnerability reporting procedure along with the remediation techniques.
Departmental Elective-Data Centre	This course covers the significance, setting-up and Services provided by data centers. Datacenter fundamentals helps students to understand the basic concepts of Datacenter architecture, network infrastructure in a Datacenter, server frames fault tolerance, Datacenter availability, network implementation and disaster recovery.

Subject Name	Description
Departmental Elective-Database Security	Every program and every application that we use, connect with data or information in some way or the other and this data is stored in a systematic manner in a database, which is chosen depending on the requirements of the software and the users. As data forms a very crucial part of IT and is prone to security threats and attacks, it becomes important to protect the data using technology. This course will teach students, methods to protect databases.
Departmental Elective-Cyber Forensics	Cyber Forensics deals with the development of tools and software to gather evidences from computers, without corrupting the information contained. A relatively new field, it is quickly gaining momentum as the complexities in the crimes are on the rise and it has become imperative to treat each cybercrime with diligence. Students are taught about different forms of cybercrime and its implications and duties of professionals employed at different levels towards analyzing and controlling cybercrime. Methods to recover data from storage devices are covered in following chapters. Different forensic techniques and cyber laws are also dealt in detail.
Departmental Elective –Cloud Web Services	Cloud services facilitate access to server infrastructure which is managed by the provider, which includes data storage and access, security and scalability and updates. Cloud Providers are organizations that offer these services to the clients and are the most preferred method for medium and small organizations to opt for these services in order to avoid the cost overhead and operational costs. This course aims at providing the students an insight into the operations of cloud and introduces them to different cloud providers available.
Departmental Elective –COBIT VALIT and Risk IT	(COBIT) is a framework created for supporting toolset by which managers could bridge the gap between control requirements, technical issues and business risks. The objective of RiskIT is to provide an end-to-end, comprehensive perspective of all risks pertaining to use of IT and deals with thorough treatment of risk management. Its principles can be customized to suit the environment in your organization and is definitely an encouraging aspect for individuals to contribute their skills to the growth of the organization.
Open Elective - Professional	This course focuses on developing skill sets that help students become stronger, more confident leaders and help to understand some of the processes involved in decision making, to the psychology of decision

Skills	making and the social context in which decisions are made. Topics include Leadership & Team building, Decision Making & Negotiation, Creativity at workplace, emotional intelligence. Upon completion of this course, the students will be able to describe and discuss leadership characteristics and styles, evaluate the effectiveness of specific leadership styles in a given situation.
Open Elective - Information Security Fundamentals	The course primarily covers the Types of Threats, Vulnerabilities, Risks and various terminologies in Information Security. It explains the formation of Security policy at various levels inside the Organization and provides the definition Procedures, Standard and Guidelines. The unit emphasizes the need of Performing Asset Classification and Declassification, Retention and Disposal of Information Asset also it identifies the various levels of Authorization for access Viz., Owner, Custodian and User. The course covers the different types of Access Controls and Physical security measures to safeguard the Assets and conclusively, it deals with the Digital Rights Management also covering the concepts of Common Authentication protocols and Real world Protocols. This course enables the students to understand the concepts of IT security, Threats, Vulnerabilities, Impact and control measures. And also to get familiarized with Asset management along with the objective to create awareness in Digital Rights management.
Open Elective - ITIL	ITIL-compatible tools offer better integration, interaction and compatibility with your global partners, and in addition, sticking to strict ITIL standards from a single vendor can help process integrations go seamlessly and ensure all parties are speaking the same technical language.It is always an advantage to understand what types of ITIL tools your global partners are working with and how they rate them. ITIL frameworks provide a homogenous IT environment and eases interactions with other global companies using similar preapproved tools. Managing staff, providing services to customers and creating efficiencies for less money can be daunting tasks for any IT organization.
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Departmental Elective - Cloud security	As cloud computing security to escalate in importance and evolve, it is important that enterprises understand how to best handle the paradigm change in business operations that the cloud presents. This level of understanding will enable enterprises to maximize the benefits that cloud platforms offer, while simultaneously addressing the cloud's unique and emerging threats and vulnerabilities.
Departmental Elective – Application, Web security and SDLC	To develop software in a consistent and efficient way with a demonstrable & standards compliant security quality, in line with the organizational risks.