



# MAGAZINE

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# Byte Quest

Department of  
**CSE**



**BIG DATA**



**CLOUD COMPUTING**



**CYBERWARFARE**



**DEVOPS**

## Department Vision

*To be a center for academic excellence in the field of Computer Science and Engineering education to enable graduates to be ethical and competent professionals.*

### **FACULTY COORDINATORS**

S. KOMAL KAUR  
(ASST. PROFESSOR)  
T. NISHITHA  
(ASST. PROFESSOR)

## Department Mission

*To enable students to develop logic and problem solving approach that will help build their careers in the innovative field of computing and provide creative solutions for the benefit of society.*

### **STUDENT COORDINATORS**

MANAS (2/4) CSE C  
ANISH (2/4) CSE B  
RANESH (2/4) CSE A  
CHANDRASEKHAR (3/4) CSE B  
SHASHIKAR (3/4) CSE C





# BIG DATA

**Big data refers to the vast amounts of structured and unstructured data generated by modern society. With advancements in technology and the widespread use of the internet, organizations are collecting and storing huge amounts of data on their customers, operations, and more.**



**By using advanced analytics and machine learning algorithms, organizations can gain valuable insights and make data-driven decisions. The effective analysis of big data can provide significant competitive advantage and drive innovation. However, managing and processing big data can also present significant technical and ethical challenges, making it an important area for ongoing development and discussion.**

# CLOUD COMPUTING

**Cloud computing is a computing model where shared resources, software, and information are provided to computers and other devices over the internet. With cloud computing, organizations can access and use computing resources, such as servers and storage, as a utility service, without having to invest in and maintain their own IT infrastructure.**



**This results in cost savings, increased scalability and flexibility, and improved access to technology. Major players in cloud computing include Amazon Web Services (AWS), Google Cloud Platform etc. As businesses continue to seek ways to optimize their operations, cloud computing is becoming increasingly popular and is playing a significant role in the digital transformation of many organizations.**





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## CYBERWARFARE

**Cyberwarfare is the use of digital means to attack or defend against political or military targets. It involves the use of technologies such as hacking, malware, and phishing to conduct espionage, disrupt critical infrastructure, and steal sensitive information.**



**Cyberwarfare can be carried out by nation-states, criminal organizations, and even individuals. As technology becomes more advanced and the reliance on the internet and connected devices grows, the threat of cyberwarfare is increasingly becoming a global concern.**

**The potential for damage to critical infrastructure, financial systems, and personal privacy make it a critical issue for governments, corporations, and individuals alike. It is important for organizations to implement strong cybersecurity measures to mitigate the risk of cyberattacks and protect their interests in the face of this growing threat.**





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## DEVOPS

**Datafication is a technology trend turning many aspects of our life into data which is subsequently transferred into information realized as a new form of value.**



**The goal of DevOps is to increase efficiency and reduce the time it takes to get applications and services to market. DevOps practices such as continuous integration, continuous delivery, and infrastructure as code allow organizations to automate and streamline their software development processes.**

**This results in faster and more reliable delivery of applications and services, as well as improved collaboration and communication between development and operations teams. With DevOps, organizations can be more agile, responsive to change, and better equipped to handle the demands rapidly evolving digital landscape.**

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Computer Science and Engineering**

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