

Paper Code: DITS-VAC-2012

Paper Name: Digital Technological Solutions

Credits: 2 (Lecture-15 Practical-15)

Total Marks: 50 (T30+P10+IA10)

Objectives:

1. To know Digital technology and its significance.
2. To bring awareness about the e-Governance and Digital India initiatives.

Learning Outcome:

1. Acquire knowledge about digital technology, Digital financial tools and e-commerce.
2. Familiarity with the e-governance and Digital India initiatives.
3. Understanding about the latest Digital technologies.

CONTENT

Theory:

UNIT I: Digital technology: Introduction, Role and Significance, Computer systems and its parts, Software and its types, Operating systems and its types and functions, Internet: concept and applications, www, web browser, search engines, Messaging, e-mail, social networking. E-commerce and digital marketing: basic concepts, benefits and challenges.

UNIT II: Digital India and e-Governance: Initiatives, services and empowerment. Digital financial tools: Unified Payment Interface (UPI), Aadhar enabled payment system, Credit/debit cards, e-Wallets, Internet Banking, NEFT/RTGS and IMPS, Online bill payments and POS, Cyber security: Threats and precautions, safety measures tools.

Emerging technologies and their applications: Overview of Cloud Computing, Big Data, Internet of Things, Virtual Reality, Block Chain, Artificial Intelligence, 3-D printing, ChatGPT, future of Digital technologies.

Practical/Lab Work:

1. How to use digital financial tools.
2. How to register in internet banking.
3. Online bill payments.
4. Uses of emerging technologies.

Suggested Readings:

1. Fundamentals of computers by E. Balagurusamy, Tata McGraw Hill.
2. Emerging Technologies in Computing: Theory, Practice and Advances by P. Kumar, A. Tomar and R. Sharmila, 1st Edition 2021.
