

**Shiksha Mandal's
Bajaj College of Science, Wardha**
(Formerly known as Jankidevi Bajaj College of Science, Wardha)

**Department of Computer Science
Generic/Other Elective Course (GE/OE) - I
Semester-I
E-COMMERCE
Course Code: UCSG111**

(Approved in BoS meeting held on 30.08.2024 w.e.f. Academic Session 2024-25)

Credits: 2 (2 Th)

No. of Lectures: 30

No. of Practical: Nil

Course Description: This course introduces information systems for business and management and essentials of e-Commerce.

Learning Objectives:

- It is designed to familiarize students with organizational and managerial foundations of systems.
- The technical foundation for understanding information systems.

Course Learning Outcomes:

After Completion of the subject student should able to:

- Understand the basic concepts and technologies used in the field of management information systems;
- Have the knowledge of the different types of management information systems;
- Understand the processes of developing and implementing information systems;
- Be aware of the ethical, social, and security issues of information systems;

UNIT - I

Introduction to e-Commerce, Scope of electronic commerce, definition, e-Commerce and Trade Cycle, e- Markets, Internet e-Commerce in perspective. Value chain, Supply chain, Porters value chain model, Inter organizational value chains.

UNIT - II

Business strategy in electronic age: Competitive advantages, Strategy, Porters model, First Movers advantages, Advantages using e-Commerce. Introduction to business strategy, Strategic implications of IT, Technology, e-Commerce implementation, e-Commerce evaluation.

Business to Business e-Commerce: Inter organizational transactions, The credit transaction trade cycle, A variety of transaction, Electronics Market, Usage of e-Market, Advantages and disadvantages of e-Market, Future of e-Market, EDI.

UNIT - III

Business to Consumer Electronic Commerce: Consumer trade transaction, Internet e-Commerce, e-Shop, Other e-Commerce technologies, Advantages and disadvantages of consumer e-Commerce. Elements of e-Commerce: elements, e-Visibility, e-Shop, Online payments, Internet e-Commerce security.

Reference Books

1. Commerce, Strategy, Technologies and Applications By: David Whiteley
Tata McGraw-Hill Edition.

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**Department of Computer Science
Generic/Open Elective Course (GE/OE) - II
Semester-II
Introduction to Cyber Security
Course Code: UCSG121**

(Approved in BoS meeting held on 31.08.2024 w.e.f. Academic Session 2024-25)

Credits: 2 (2 Th)

No. of Lectures: 30

No. of Practical: Nil

Course Description:

This course imparts the basics of cyber security to all students.

Learning Objectives:

This course is designed to satisfy the following objectives:

- To learn basic computer concepts of cyberspace.
- To impart the knowledge of concepts associated with the cyber security.
- To acquaint and familiarize them with recent cyber world trends.

Course Learning Outcomes:

After successful completion of the course, students will be able to:

- Understand cyber world concepts.
- Get acquainted with best practices to be followed in the virtual world.
- Learn to safely explore the cyberspace and exchange information through secured techniques.

Unit – I

Introduction, Security Threats and Risks: Confidentiality, Integrity, and Availability, Security and Information Privacy, Threats and Breaches, Threat Types, Phishing, Social Engineering, and Other Attacks

Unit – II

Security Best Practices: Password Management Techniques, Authentication and SSO, Security Threats: Access Control, Authorization, and Authentication, Hardening Devices, Security Threats: Validation and Device Usage, Security Threats: Encryption Concepts, Managing Email and Spam, Firewalls

Unit – III

Safe Browsing Practices: Application Ecosystem Security, Public Browsing Risks, Plugins, Extensions, and Toolbars, Safe Browsing Techniques, Virtual Private Networks

References:

1. Information Systems Security Management - Nina S. Godbole (Wiley India Pvt. Ltd.)
2. Network Security Essentials: Applications and Standards - W. Stallings (Pearson Education)
3. Data Communication and Networking - Forouzan (McGraw Hill)
4. Cryptography and Network Security: Principles and Practice - W. Stallings
5. Principles of Information Security - Michael E Whitman and Herbert J. Mattord (Vikas Publishing House, New Delhi, 2003).