BHARATI VIDYAPEETH'S
INSTITUTE OF COMPUTER APPLICATIONS & MANAGEMENT (BVICAM)
(Affiliated to Guru Gobind Singh Indraprastha University, Approved by AICTE, New Delhi)
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LESSON PLAN

Course: MCA-225 – e-Business Systems	
MCA – 3rd Semester	No. of Theory Hours per Week: 04

Course Outcomes (COs):

CO #	Detailed Statement of the CO
CO1	Define the concepts of e-business and e-commerce and the related information technology and web-based tools. (BTL1)
CO2	Identify Security aspects of e-business-online threats, security protocols and understand and apply cryptographic applications for securing the e-businesses and data privacy. (BTL3)
CO3	Examine various e-business models, revenue models, electronic payment systems and electronic fund transfers. (BTL4)
CO4	Create effective strategies for e-business, and mobile commerce while adapting to the emerging trends in e-business. (BTL6)

Recommended Books:

Books	S. No.	Details of the Books
Text Books	1.	Gary P. Schneider and James T. Perry, "Electronic Commerce", Thomson Learning, 1st Edition, 2000. **[TB1]**
	2.	Kamlesh K Bajaj and Debjani Nag, "E-Commerce: The Cutting Edge of Business", Tata McGraw Hill, 1st Edition, 1999. **[TB2]**
	3.	William Stallings, "Cryptography & Network Security-Principles & Practices", Prentice Hall, 4th Edition, 2005. **[TB3]**
Reference Books	1.	Rayport and Jaworksi, "Introduction to E-Commerce", Mcgraw-Hill / Irwin Series in Marketing, 2nd Edition, 2003. **[RB1]**
	2.	Dave Chaffey, "E-Business and E-Commerce Management–Strategy, Implementation and Practice", Prentice Hall, 4th Edition, 2011. **[RB2]**
	3.	Micheal Shaw, Robert Blanning and Troy Strader, "Handbook on Electronic Commerce", Springer, 1st Edition, 2012. **[RB3]**
	4.	Donal O'Mahony, Michael A. Peirce and Hitesh Tewari, "Electronic Payment Systems for E-commerce", Artech House, 2nd Edition, 2007. **[RB4]**

	5.	David Whitley, "e-Commerce Strategy, Technologies and Applications", McGraw Hill, 1st Edition, 2001. **[RB4]**

Lesson Plan for Theory:

Lecture No.	Topics/Concepts to be Covered	Reference of the Book and its Chapter
	UNIT - I	
1.	Introduction to Electronic Business and Electronic Commerce	TB1 [Chapter 1-3]
2.	Electronic Commerce Models	
3.	Types of Electronic Commerce	
4.	Value Chains in Electronic Commerce	
5.	E-Commerce in India	
6.	Internet, World Wide Web	
7.	Internet Architectures, Internet Applications	
8.	Web based Tools for Electronic Commerce	
9.	Intranet, Composition of Intranet and Extranet	
10.	ERP and Web Application Comparison	
11.	Buffer Reserved for Revision	
	UNIT – II	
12.	Security Threats to e-Business/e-Commerce, Data Privacy Issues and Security Overview	TB3 [Chapters 1, 2, 6, 10, 11, 14-16]
13.	Introduction to Cryptography and its Types	
14.	Basic Algorithms of Cryptography	
15.	Public Key Cryptography – DES Algorithm	
16.	Private Key Cryptography – RSA Algorithm	
17.	Digital Signature and Digital Certificate	
18.	Prominent Cryptographic Applications	
19.	Security Protocol over Public Networks: HTTPS	
20.	SSL, Firewall as Security Control	
21.	Public Key Infrastructure (PKI) for Security	
22.	Buffer Reserved for Revision	
	UNIT – III	
23.	Concept of Money	TB2 [Chapters 3-6]
24.	Electronic Payment System (EPS)	
25.	Components of EPS	
26.	Types of EPS, Payment through Debit/Credit Card	

Lecture No.	Topics/Concepts to be Covered	Reference of the Book and its Chapter
27.	Payment through Net Banking Direct Debit, Wallet	
28.	Electronic Fund Transfer and its Types	
29.	Electronic Data Interchange (EDI) and its Types	
30.	Working of EDI	
31.	EDI Envelops and Value-Added Network	
32.	Infrastructure Issues in EPS	
33.	Buffer Reserved for Revision	
UNIT - IV		
34.	e-Business Applications and Strategies	TB1 [Chapters 3, 4, 6]
35.	Business Models over Internet	
36.	Revenue Models over Internet	
37.	Emerging Trends in e-Business	
38.	e-Governance	
39.	Digital Commerce	
40.	Mobile Commerce	
41.	Strategies for Online Business Models	
42.	Buffer Reserved for Revision	

Course: MCA-265 – e-Business Systems Lab.	
MCA – 3rd Semester	**No. of Practical Hours per Week: 02**

Course/Lab Outcomes (COs):

COs for Practical (MCA-265)	
CO1	Model an appropriate business model for a proposed website. (BTL3)
CO2	Distinguish varied online payment methods. (BTL4)
CO3	Assess varied e-commerce software. (BTL5)
CO4	Create an e-commerce website and compare it with similar existing websites. (BTL6)

Lesson Plan for Practical:

Week No.	Lab No.	Topics/Concepts to be Covered	Reference of Lab Manual
1.	1.	E-Commerce Portals	P1, P3
2.	2.	E-Commerce Models	P1, P3

Week No.	Lab No.	Topics/Concepts to be Covered	Reference of Lab Manual
3.	3.	Electronic Payment System	P2
4.	4.	Electronic Fund Transfer	P2
5.	5.	Web based Tools and Software for E-Commerce	P1, P3, P4
6.	6.	Buffer Reserved for Revision	-
7.	7.	Development of a News Portal or an appropriate E-Commerce Portal	P5
8.	8.	Development of a News Portal or an appropriate E-Commerce Portal (continued)	P5
9.	9.	Development of a News Portal or an appropriate E-Commerce Portal (continued)	P5
10.	10.	Development of a News Portal or an appropriate E-Commerce Portal (continued)	P5
11.	11.	Development of a News Portal or an appropriate E-Commerce Portal (continued)	P5
12.	12.	Buffer Reserved for Revision	-

Testing Schedule:

Nature of Test	August	September	October	November
Surprise Test (ST)	ST in 3rd week	ST in 2nd week	-	-
Mid Term Test (MT)	-		MT in 1st week	-
Class Test (CT)	CT in 4th week		-	-
Supplementary Test (Sp. T)	-	-	-	Sp. T in 3rd week
Assignment Submission Schedule	**Assignment-1** is to be submitted One Week after completion of Unit-1 and Unit-2. **Assignment-2** is to be submitted One Week after completion of Unit-3. **Assignment-3** is to be submitted One Week after completion of Unit-4.			