

HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

B.C.A. Semester – V

BCA-504(Elective-III) : E-Commerce

Teaching Scheme (per week)		Teaching Scheme (per semester)		Examination Scheme					
				INT		EXT		TOTAL	
Th. (hours)	Pr. (hours)	Total Hours	Credit	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
4	--	40	4	30	--	70	--	100	--

Unit – I

[18 MARKS]

Fundamental of E-Commerce

What is E – Commerce, Pure v/s Partial E- Commerce, Categories of E- Commerce: based on transactions, based on transacting parties, Brief history of e-commerce, Driving forces of e-commerce, **Benefits of e-commerce:** to business, to consumers, Limitations of e-commerce

Model of E-Commerce: B2B, B2C, C2B, C2C

Unit-2

[17 MARKS]

E -Payment Systems

Introduction, requirements of e-payment system, Credit card system, Debit Card, Smart Card, Electronic Fund transfer, Electronic Cheque, payment, electronic Cash, Payment gateways, Micro payments, EDI.

Case Studies: E- reservation (irctc.co.in)

E- Banking (hdfcbank.com, icicibank.com)

On- line book purchasing (amazon.com)

Unit – 3

[18 MARKS]

Cryptographic Techniques

Introduction, Plaintext and Cipher text, Substitution Techniques, Transposition techniques, Encryption & Decryption, Symmetric & Asymmetric cryptography, Digital Signature, Public Key, Private Key.

Unit – 4

[17 MARKS]

Network Security

Brief introduction to TCP/IP, Firewalls, IP security, Virtual Private Networks ,

Secure Transport Protocol: S-HTTP, SSL, **Secure Electronic Payment**

Protocol: SETP, Secure Electronic Transaction, Certification for Authentication.

TEXT BOOKS:

1. **Web Commerce Technology Hand Book** by: Daniel Minoli, Emma Minoli
2. **E – Commerce** Mamta Bhusry Firewall Media
3. **Cryptography & Network Security** Atul Kahate Tata McGraw Hill

Question Paper Scheme:

University Examination Duration: 3 Hours

Q-1 – Unit -1 (18 Marks)

G. Objective / Short Questions

H. Descriptive / Long Questions

Q-2 – Unit -2 (17 Marks)

G. Objective / Short Questions

H. Descriptive / Long Questions

Q-3– Unit -3 (18 Marks)

G. Objective / Short Questions

H. Descriptive / Long Questions

Q-4 – Unit -4 (17 Marks)

G. Objective / Short Questions

H. Descriptive / Long Questions

Note: All Objective/ Short Questions are compulsory, no option will be given.