

**LECTURE PLAN**  
**(2024-25)**  
**BCA**  
**SEMESTER – VI**

# LECTURE PLAN

**Course Name: Computer Network Security**

**Course Code: BCA-S307 Faculty Name: Ms. Anita Shah**

Lecture Plan				
Month	UNIT	Week	No. of Planned Lecture	Topic
<b>M A R</b>	I and II	1 <sup>st</sup>	-	<b>Introduction:</b> Attack Services and Mechanism Model for Internetwork Security, Cryptography: Notion of Plain Text
		2 <sup>nd</sup>	4	Cryptography: Encryption, Key, Cipher Text Decryption and cryptanalysis;
		3 <sup>rd</sup>	3	Public Key Encryption, digital Signatures
		4 <sup>th</sup>	4	Digital Signatures and Authentication.
		5 <sup>th</sup>	4	Network Security: Authentication Application: Kerberos
<b>A P R</b>	II and III	1 <sup>st</sup>	3	<b>INTERNAL ASSESSMENT- I / REVISION CLASSES</b> IP security Architecture: Overview, Authentication header
		2 <sup>nd</sup>	3	Encapsulating Security Pay Load combining Security Associations
		3 <sup>rd</sup>	3	Key Management, Web Security: Requirement,
		4 <sup>th</sup>	4	Secure Sockets Layer, Transport Layer Security, and Secure Electronic Transactions
		5 <sup>th</sup>	3	Network Management Security: Overview of SNMP Architecture-
<b>M A Y</b>	IV and V	1 <sup>st</sup>	-	SMMPV11 Communication Facility, SNMPV3
		2 <sup>nd</sup>	4	System Security: Intruders, Viruses and Related Threats Firewall Design Principles.
		3 <sup>rd</sup>	3	Comprehensive examples using available software platforms/case tools,
		4 <sup>th</sup>	-	
<b>Total Classes</b>			<b>Planned: 38</b>	

## LECTURE PLAN (2023-24)

**Information Systems:** Analysis, Design & Implementation      **Course Code:** BCA-S308

**Faculty Name:** Ms. Anita Shah

Month	UNIT	Week	No. of Planned Lecture	Topic
<b>M A R C H</b>	II & III	1 <sup>st</sup>	1	Overview of System Analysis and Design, SDLC concept and Models: requirements determination, logical design, physical design, test planning, implementation, planning and performance evaluation communication,
		2 <sup>nd</sup>	4	Interviewing, presentation skills, group dynamics; risk and feasibility analysis group-based approaches, JAD, structures walkthroughs, and design and code reviews, Prototyping; database design software quality metrics application categories software package evaluation and acquisition
		3 <sup>rd</sup>	1	Information Requirement Analysis: Process modeling with physical logical data flow diagrams
		4 <sup>th</sup>	4	data modeling with logical entity relationship diagrams Developing a Proposal: Feasibility study and cost estimation
		5 <sup>th</sup>	4	System Design: Design of input and control, design of output and control, file design/database design, process, user interface design,
<b>A P R I L</b>	III & IV	1 <sup>st</sup>	4	prototyping; software constructors; documentation
		2 <sup>nd</sup>	3	Application Development Methodologies and CASE tools: Information engineering, structured system analysis and design
		3 <sup>rd</sup>	3	, and object-oriented methodologies for application development data modeling
		4 <sup>th</sup>	4	process modeling, user interface design, prototyping
		5 <sup>th</sup>	1	use of computer aided software engineering (CASE) tools in the analysis design
<b>M A Y</b>	IV & V	1 <sup>st</sup>	3	implementation of information systems, Object oriented analysis and design through object modelling technique,
		2 <sup>nd</sup>	4	Design and Implementation on OO Platform: object modelling, dynamic modelling and functional object-oriented design
		3 <sup>rd</sup>	4	object oriented programming systems for implementation, object-oriented data bases, Managerial issues in Software Projects:
		4 <sup>th</sup>	4	Introduction to software markets; planning of software projects, size and cost estimates Project scheduling; measurement of software quality and productivity, ISO, capability maturity models for organizational growth.
<b>Total Classes</b>		<b>Planned:</b>	<b>44</b>	

**Reference Books:**

1. I.T.Haryzkiewicz, Introduction of System Analysis and Design, Pearson Education, (PHI) 1998.
2. V.Rajaraman, Analysis and Design of Information System, Pearson Education, 1991.
3. J.A.Senn, "Analysis and Design of Information Systems" 1. J.K.Whiten., L.D.Bentley, V.M.Beslow, "System Analysis and Design Methods", (Galgotia Publications Pvt.Ltd.) 1994

**LECTURE PLAN (2024-25)**  
**BCA-VI Sem.**

Course Name: E-Commerce

Course Code: BCA-S309

Teacher Name: Suman Mishra Tiwari

Lecture Plan				
Month	UNIT	Week	No. of Planned Lecture	Topic
March	I	1 <sup>st</sup>	4	UNIT-I Introduction to E-Commerce: The Scope of Electronic Commerce, Definition of Electronic Commerce, Electronic E-commerce and the Trade Cycle, Electronic Markets, Electronic Data Interchange, Internet Commerce, E-Commerce in Perspective.
		2 <sup>nd</sup>	3	Business Strategy in an Electronic Age: Supply Chains, Porter's Value Chain Model, Inter Organizational Value Chains, Competitive Strategy, Porter's Model, First Mover Advantage, Sustainable Competitive Advantage, Competitive Advantage using E-Commerce,
		3 <sup>rd</sup>	4	Business Strategy, Introduction to Business Strategy, Strategic Implications of IT, Technology, Business Environment, Business Capability, Exiting Business Strategy, Strategy Formulation & Implementation Planning, E-Commerce Implementation, E-Commerce Evaluation.
		4 <sup>th</sup>	4	UNIT-II Business-to-Business Electronic Commerce: Characteristics of B2B EC, Models of B2B EC, Procurement, Management Using the Buyer's Internal Marketplace, Just in Time Delivery, Other B2B Models, Auctions and Services from Traditional to Internet Based EDI,
		5 <sup>th</sup>	--	
April	II	1 <sup>st</sup>	3	Integration with Back-end Information System, The Role of Software Agents for B2B EC, Electronic marketing in B2B, Solutions of B2B EC, Managerial Issues, Electronic Data Interchange (EDI), EDI: The Nuts and Bolts, EDI & Business.
		2 <sup>nd</sup>	3	UNIT-III Internet and Extranet: Automotive Network Exchange, The Largest Extranet, Architecture of the Internet, Intranet and Extranet, Intranet software, Applications of Intranets, Intranet Application Case Studies, Considerations in Intranet Deployment, The Extranets, The structures of Extranets, Extranet products & services, Applications of Extranets, Business Models of Extranet Applications, Managerial Issues.
		3 <sup>rd</sup>	3	Electronic Payment Systems: Is SET a failure, Electronic Payments & Protocols, Security Schemes in Electronic payment systems, Electronic Credit card system on the Internet,
		4 <sup>th</sup>	4	Electronic Fund transfer and Debit cards on the Internet, Stored – value Cards and E- Cash, Electronic Check Systems, Prospect of Electronic Payment Systems, Managerial Issues.
		5 <sup>th</sup>	3	UNIT-IV Public Policy: From Legal Issues to Privacy: EC- Related Legal Incidents, Legal Incidents, Ethical & Other Public Policy Issues, Protecting Privacy, Protecting Intellectual Property,
May	III & IV	1 <sup>st</sup>	1	Free speech, Internet Indecency & Censorship, Taxation & Encryption Policies,
		2 <sup>nd</sup>	4	Other Legal Issues: Contracts, Gambling & More, Consumer & Seller Protection In EC.
		3 <sup>rd</sup>	3	UNIT-V Infrastructure For EC : It takes more than Technology, A Network Of Networks, Internet Protocols, Web- Based client/ Server, Internet Security
		4 <sup>th</sup>	4	selling on the web, Chatting on the Web, Multimedia delivery, Analyzing Web Visits, Managerial Issues.
<b>Total Planned Lectures:</b>			<b>43</b>	

Reference Books:

1. David Whitely, "E-Commerce", Tata McGraw Hill, 2000
2. Eframi Turban, Jae Lee, David King, K. Michael Chung, "Electronic Commerce", Pearson Education, 2000

**LECTURE PLAN (2024-25)**  
**BCA-VI Sem.**

**Course Name:** Knowledge Management

**Course Code:** BCA-S310

**Teacher Name:** Suman Mishra Tiwari

<b>Lecture Plan</b>				
<b>Month</b>	<b>UNIT</b>	<b>Week</b>	<b>No. of Planned Lecture</b>	<b>Topic</b>
<b>March</b>	<b>I</b>	1st	4	Business Intelligence and Business Decisions Modeling Decision Process
		2nd	2	Decision support systems
		3rd	4	Group decision support.
		4th	4	Groupware Technologies
		5th	--	
<b>April</b>	<b>II&amp; III</b>	1st	2	Executive Information and support Systems. OLTO & OLAP; Data Warehousing.
		2nd	4	Data Marts, Data Warehouse architecture. Tools for data warehousing.
		3rd	3	Multi- Dimensional analysis
		4th	4	Data mining and knowledge discovery Data mining Techniques
		5th	2	Data mining of Advance Databases
<b>May</b>	<b>IV</b>	1st	2	Knowledge Management Systems
		2nd	4	Concept and Structure KM systems
		3rd	3	techniques of knowledge management appreciation
		4th	4	Knowledge Management Systems limitation
		5th	--	Data mining and knowledge discovery
<b>Total Planned Lectures:42</b>				

**Reference Books:**

1. Decision support system, EIS, 2000
2. W.H.Inmon, "Building Data Warehousing", Willey, 1998.
3. Han, Jiawei, Kamber, Micheline, "Data Mining Concepts & Techniques", Harcourt India, 2001