

Lesson Plan

Name of Faculty: **Richa Gupta**

Discipline: **BCA**

Semester: **4th**

Subject: **E-Commerce (BCA-243)**

Lesson Plan Duration: **15 Weeks**

Workload (Lecture) Per Week: **4 Lecture Per Week**

Week	Theory	
	Lecture Day	Topic(Including Assignment /Test)
1 st	1 st	Introduction to E-Commerce:-Business operations
	2 nd	E-commerce practices vs. traditional business practices.
	3 rd	concepts of b2b, b2c,c2c,b2g,g2h,g2c
	4 th	concepts of b2b, b2c,c2c,b2g,g2h,g2c
2 nd	5 st	Features of E-Commerce,Types of Ecommerce Systems
	6 th	Elements of E-Commerce, principles of E-Commerce
	7 th	Benefits and Limitations of E-Commerce.
	8 th	Management Issues relating to e-commerce.
3 rd	9 th	Operations of E-commerce: Credit card Transaction
	10 th	Secure Hypertext Transfer Protocol (SHTTP), Electronic payment systems
	11 th	Secure electronic transaction (SET); SET`s encryption; Process; Cybercash
	12 th	Smart cards;Indian payment models.
4 th	13 th	Applications in governance: EDI in governance; E-government
	15 th	E-Governance applications of Internet; concept of government –to- business.
	16 th	business-to-government and citizen-to-

		government.
	17 th	Data Integration, Data Reduction
5th	18 th	Class test
	19 th	MCQs
	20 th	E-governance models; Private sector interface in Egovernance
	21 st	Applications in B2C: Consumers shopping procedure on the Internet
6th	18 th	Impact on disinter mediation and re-intermediation
	19 th	Global market
	20 th	Strategy of traditional department stores.
	21 st	Class test
7th	22 nd	MCQs
	23 rd	Products in b2c model; success factors of e-brokers
	24 th	Broker-based services on-line
	25 th	Online travel tourism services, Benefits and impact of e-commerce on travel industry.
8th	26 th	Online travel tourism services, Benefits and impact of e-commerce on travel industry.
	27 th	Online travel tourism services, Benefits and impact of e-commerce on travel industry.
	28 th	Deal estate market.
	29 th	online stock trading and its benefits.
9th	30 th	Online banking and its benefits; Online financial services and their future.
	31 st	E-auctions – benefits, implementation and impact.
	32 nd	E-auctions – benefits, implementation and impact.
	33 rd	E-auctions – benefits, implementation and impact.
10th	34 th	Revision of unit 1
	35 st	Revision of unit 2
	36 th	Applications in B2B: Key technologies for b2b.
	37 th	architectural models of b2b.

11th	38 th	characteristics of the supplier –oriented marketplace, buyer-oriented marketplace and intermediary-oriented marketplace.
	39 st	characteristics of the supplier –oriented marketplace, buyer-oriented marketplace and intermediary-oriented marketplace.
	40 th	characteristics of the supplier –oriented marketplace, buyer-oriented marketplace and intermediary-oriented marketplace.
	41 st	Just In Time delivery in b2b.
12th	42 nd	Internet-based EDI from traditional EDI.
	43 rd	Marketing Issues in b2b.
	44 th	Emerging Business models: Retail model
	45 th	Media model
13th	46 th	advisory model
	47 th	made-to-order manufacturing model
	48 th	Do-it- yourself model
	49 th	Information service model
14th	50 th	Emerging hybrid models
	51 st	Emerging models in India
	53 rd	Internet security Issues.
	54 th	Legal aspects of E-commerce
15th	55 th	Class test
	56 th	MCQs
	57 th	Revision of Unit 3
	58 th	Revision of Unit 4

Lesson Plan

Name of Faculty: **Safurti**

Discipline: **BCA**

Semester: **4th**

Subject: **Relational Database Management System (BCA-244)**

Lesson Plan Duration: **15 Weeks**

Workload (Lecture) Per Week: **4 Lecture Per Week**

Week	Theory	
	Lecture Day	Topic(Including Assignment /Test)
1st	1 st	Relational Model Concepts, Codd's Rules for Relational Model
	2 nd	Relational Algebra:-Selection and Projection
	3 rd	Set Operation, Renaming
	4 th	Join
2nd	5 st	Division
	6 th	Relational Calculus: Tuple Relational Calculus
	7 th	Relational Calculus: Domain Relational Calculus.
	8 th	Assignment 1: 1) What do you mean by relational calculus? How does it differ from relational algebra? Discuss tuple relational calculus and domain relational calculus.
3rd	9 th	Revision of Assignment 1
	10 th	MCQs of Unit-I
	11 th	Functional Dependencies
	12 th	Normalization:-Purpose, Data Redundancy
4th	13 th	Update Anomalies, Functional Dependencies:-Full Functional Dependencies
	14 th	Transitive Functional Dependencies
	15 th	

	16 th	Test of Unit-I
	17 th	Characteristics of Functional Dependencies, Decomposition
5 th	18 th	Normal Forms (1NF, 2NF, 3NF & BCNF).
	19 th	Assignment 2: 1) What do you mean by Normalization? State the similarities and dis-similarities among BCNF and 3NF. Why is BCNF considered to be stronger from 3NF? Provide an example to illustrate.
	20 th	Revision of Assignment 2
	21 st	MCQs of Unit-II
6 th	22 nd	. SQL: Data Definition and data types, SQL Operators
	23 rd	Specifying Constraints in SQL
	24 th	Basic DDL, DML and DCL commands in SQL
	25 th	Simple Queries
7 th	26 th	Practical regarding SQL Queries
	27 th	Nested Queries
	28 th	Practical regarding SQL Nested Queries
	29 th	Tables
8 th	30 th	Views
	31 st	Indexes
	32 nd	Aggregate Functions
	33 rd	Clauses
9 th	34 th	Assignment 3: 1) Define SQL. Explain (check, like, default, between and in) constraint in SQL with illustration. 2) What do you mean by simple and nested query? Explain with examples.
	35 th	Revision of Assignment 3
	36 th	MCQs of Unit-III
	37 th	Introduction to PL/SQL,

		PL/SQL architecture
10th	38 th	PL/SQL SQL*Plus
	39 st	PL/SQL Basics, Advantages of PL/SQL
	40 th	The Generic PL/SQL Block: PL/SQL Execution Environment
	41 st	PL/SQL Character set and Data Types
11th	42 nd	Test of Unit-II
	43 rd	Control Structure in PL/SQL
	44 th	Cursors in PL/SQL
	45 th	Triggers in PL/SQL
12th	46 th	Programming using PL/SQL
	47 th	Programming using PL/SQL
	48 th	Assignment 4: 1) What do you mean by Triggers in PL/SQL? Why do we create Triggers? Write the syntax for creating a trigger with BEFORE and AFTER keywords.
	49 th	Revision of Assignment 4
13th	50 th	Test of Unit –III
	51 st	Revision of Unit-IV
	53 rd	Test of Unit-IV
	54 th	Revision of Unit-I
14th	55 th	Revision of Unit-II
	56 th	Revision of Unit-III
	57 th	Revision of Unit-IV
	58 th	Revision of University Question Paper 2015
15th	59 th	Test of University Question Paper 2015
	60 th	Revision of University Question Paper 2016

Lesson Plan

Name of Faculty: **Sana Bharti**

Discipline: **BCA**

Semester: **4th**

Subject: **Management Information Systems (BCA-245)**

Lesson Plan Duration: **15 Weeks**

Workload (Lecture) Per Week: **4 Lecture Per Week**

Week	Theory	
	Lecture Day	Topic(Including Assignment /Test)
1st	1 st	Introduction to system and Basic System Concepts
	2 nd	Types of Systems
	3 rd	Types of Systems
	4 th	The Systems Approach
2nd	5 th	The Systems Approach
	6 th	Information System: Definition & Characteristics
	7 th	Types of information
	8 th	Role of Information in Decision-Making
3rd	9 th	Sub-Systems of an Information system: EDP and MIS management levels.
	10 th	EDP and MIS management levels. EDP/MIS/DSS, Discussion of major key terms
	11 th	Assignment 1: 1) What is system and explain its types? 2) What is information and its types? 3) What is role of information in Decision Making 4) Explain different types of sub systems
	12 th	Revision of Unit 1

4th	13 th	Test of Unit 1
	14 th	An overview of Management Information System: Definition
	15 th	Components of MIS, & Characteristics Frame Work for Understanding MIS
	16 th	Frame Work for Understanding MIS, Information requirements & Levels of Management
5th	17 th	Simon's Model of decision-Making
	18 th	Simon's Model of decision-Making
	19 th	Structured Vs Un-structured decisions
	20 th	Formal Systems
6th	21 st	Informal Systems
	22 nd	Formal vs Informal systems, Discussion of major key terms
	23 th	Assignment 2: 1) What is MIS and its characteristics? 2) What are the levels of management? 3) Explain Simon's Model of decision-Making 4) Explain Formal vs Informal systems
	24 th	Revision of Unit 2
7th	25 th	Test of Unit 2
	26 th	Discussion of Test 1 and 2
	27 th	Developing Information Systems
	28 th	Developing Information Systems: Analysis & Design of Information Systems
8th	29 th	MCQ's Quiz
	30 th	Design of Information Systems: Implementation & Evaluation
	31 st	Evaluation of MIS:Implementation plan, Organizing MIS Department
	32 nd	Evaluation of MIS
9th	33 th	Requirements of Information Systems
	34 th	System Test Planning and Execution
	35 th	Pitfalls in MIS Development

	36 th	Discussion of major key terms
10th	37 th	Assignment 3 1) Explain Information Requirements 2) Steps for Designing Information Systems 3) What are the pitfalls while designing MIS
	38 th	Revision of Unit 3
	39 th	Test of Unit 3
	40 th	Discussion of Test 3
11th	41 st	Functional MIS
	42 nd	A Study of Personnel
	43 rd	MCQ Quiz
	44 th	A Study of Personnel
12th	45 th	Financial MIS
	46 th	Production of MIS
	47 th	Introduction to e-business systems
	48 th	Examples of e-business system
13th	49 th	Advantages and disadvantages of e-business system
	50 th	Applications of e-business Technology
	51 st	Introduction of ecommerce
	52 nd	Technologies of ecommerce
14th	53 rd	Applications of ecommerce
	54 th	Decision support systems – support systems for planning, control
	55 th	support systems for decision-making
	56 th	Assignment 4 1) Describe Financial MIS 2) Explain e-business and its applications 3) What are decision support systems?
15th	57 th	Revision of Unit 4
	58 th	Test of Unit 4

	59 th	Revision of Unit 3 and Unit 2
	60 st	Revision of Unit 1

Lesson Plan

Name of Faculty: **Tanvi Mehta**

Discipline: **BCA**

Semester: **4th**

Subject: **Computer-Oriented Statistical Methods (BCA-246)**

Lesson Plan Duration: **15 Weeks**

Workload (Lecture) Per Week: **4 Lecture Per Week**

Week	Theory	
	Lecture Day	Topic(Including Assignment /Test)
1st	1 st	Preparing Frequency Distribution Table and Cumulative frequency, Types,
	2 nd	Measure of Central Tendency
	3 rd	Arithmetic mean, Geometric Mean
	4 th	Harmonic Mean, Median, Mode.
2nd	5 st	Measure of Dispersion: Range, Quartile Deviation, mean deviation, Coefficient of mean Deviation
	6 th	Standard Deviation
	7 th	Moments: Moments About mean, Moments about any point, Moment about origin
	8 th	Moment about mean in terms of moment about any point, Moment about any point in terms of Moment about mean.
3rd	9 th	Assignment 1: 1) The average weight of 150 students in a class is 80kg. The average weight of boys in the class is 85 kg and that of girls is 70kg .Find the number of boys and girls in the class separately.
	10 th	Multiple choice Questions
	11 th	Class Test
	12 th	Random Variable-Discrete Random and Continuous Random variable

4 th	13 th	Probability Distribution of a Random Variable
	15 th	Mathematical Expectation Types: Binomial
	16 th	Mathematical Expectation Types: Poisson
	17 th	Mathematical Expectation Types: Normal Distribution
5 th	18 th	Mean and Variance of Binomial, Poisson, and Normal Distribution
	19 th	Correlation: Introduction, Types, Properties
	20 th	Methods of Correlation: Karl Pearson's Coefficient of Correlation
	21 st	Methods of Correlation: Rank Correlation and Concurrent Deviation method
6 th	18 th	Probable error
	19 th	Assignment 2: 1) Eight percent of the bolt produced in a certain factory turn out to be defective. Find the probability, using Poisson distribution, that in a sample of 25 bolts chosen at random (i) Exactly (ii) More than 3, will be defective.
	20 th	Multiple Choice Questions
	21 st	Class Test
7 th	22 nd	Regression: Introduction, Aim of Regression
	23 rd	Analysis, Types of Regression Analysis
	24 th	Lines of Regression, Properties of Regression
	25 th	Coefficient and Regression Lines
8 th	26 th	Comparison with Correlation
	27 th	Curve Fitting: Straight Line, Parabolic curve
	28 th	Curve Fitting: Geometric Curve and Exponential Curve
	29 th	Baye's Theorem in Decision Making
9 th	30 th	Forecasting Techniques
	31 st	Assignments <ul style="list-style-type: none"> • Find <ul style="list-style-type: none"> (i) Mean \bar{X} and \bar{Y} (ii) Regression Coefficients b_{xy} & b_{yx}

		Coefficient of Correlation between x and y when two lines of regression are $3x + 13y = 19$ and $x + 3y = 5$.
	32 nd	Multiple choice Questions
	33 rd	Class Test
10th	34 th	Sample introduction
	35 st	Sampling Meaning
	36 th	Methods of Sampling
	37 th	Statistical Inference
11th	38 th	Types of hypothesis
	39 st	Procedure of hypothesis
	40 th	Type I and Type II error
	41 st	One Tailed and two Tailed Test
12th	42 nd	Types of test of Significance : Test of significance for small samples (t-test)
	43 rd	Testing: Test of significance for Attribute
	44 th	Test of significance for large samples
	45 th	Test of No. of success and test of proportion of success
13th	46 th	Test of significance for single mean and Difference of mean
	47 th	Test the significance between the mean of a random sample,
	48 th	Test the significance between the mean of two independent samples
	49 th	Assignment : <ul style="list-style-type: none"> • Write a short note on each of the following: <ol style="list-style-type: none"> (i) Uses of χ^2 test (ii) Limitations of χ^2 test
14th	50 th	Multiple Choice Questions
	51 st	Class Test
	53 rd	Revision of Unit 1
	54 th	Revision of Unit 2
15th	55 th	Revision of Unit 2
	56 th	Revision of Unit 3

	57 th	Revision of Unit 3
	58 th	Revision of Unit 4