



Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore

Shri Vaishnav Institute of Computer Applications

Name of Program: BCA + MCA (Banking Technology)

COURSE CODE	CATEGORY	COURSE NAME	L	T	P	CREDITS	TEACHING & EVALUATION SCHEME				
							THEORY			PRACTICAL	
							END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*
BCCA501	Compulsory	Java programming and Technology (Core Java)	3	1	0	4	60	20	20	0	0

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

Q/A – Quiz/Assignment/Attendance, MST - Mid Sem Test.

***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in class (Given that no component shall exceed 10 Marks)

Course Education Objectives (CEOs):

- Students must be able to understand fundamentals of programming such as variables, conditional and iterative execution, methods etc.
- Students must be able to understand fundamentals of object-oriented programming in Java, including defining classes, invoking methods using class libraries etc.
- Students must have the ability to write a computer program to solve specified problems.
- Students must be able to use the Java SDK environment to create, debug and run simple Java programs.

Course Outcomes (COs):

After the successful completion of the course students will be able to perform the following tasks:

- Write, compile, and execute Java programs that may include basic data types and control flow constructs using Integrated Development Environments (IDEs) such as Eclipse, NetBeans, and JDeveloper.
- Write, compile and execute Java programs using object oriented class structures with parameters, constructors, utility and calculations methods including inheritance, test classes and exception handling.
- Write, compile and execute Java programs using arrays and recursion, manipulating Strings and text documents.

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- Write, compile and execute Java programs that include GUIs and event driven programming.
- Write a final project that may be selected from among the following: applets for inclusion in web pages; applets to access enterprise data bases in robust, enterprise three level applications; secure communications over the internet; or an approved project chosen by the student.

Syllabus:

UNIT – I

Importance and features of Java, *Language Construct of java including* Keywords, constants, variables, looping and decision making construct, Classes and their implementation, Introduction to JVM and its architecture including set of instructions. Overview of JVM Programming. Internal and detailed explanation of a valid .class file format. Instrumentation of a .class file, Byte code engineering libraries, Overview of class loaders and Sandbox model of security.

UNIT - II

Introducing classes, objects and methods: Defining a Class, Adding Variables and Methods, Creating Objects, Access Protection, Constructors, Inheritance. Arrays and String: Creating An Array, One and Two Dimensional Arrays, String Array And Methods, Classes: String and String Buffer Classes, Wrapper Classes: Basic Types, Using Super, Multilevel Hierarchy Abstract and Final Classes, Object Class, Packages and Interfaces, Extending Interfaces.

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UNIT – III

Exception Handling: Fundamentals Exception Types, Uncaught Exceptions, Throw, Final, Built In Exception, Creating Your Own Exceptions,

Multithreaded Programming: Fundamentals, Java Thread Model: Priorities, Synchronization, Messaging, Thread Classes, Runnable Interface, Inter Thread Communication, Suspending, Resuming and Stopping Threads.

Input/ Output Programming: Basics, Streams, Byte and Character Stream, Predefined Streams, Reading and Writing from Console and Files.

UNIT – IV

Event Handling: Different Mechanism, the Delegation Event Model, Event Classes, Event Listener Interfaces, Adapter and Inner Classes, Working with windows, Graphics and Text, use of AWT controls, Layout managers and menus, handling Image, animation, sound and video, Java Applet.

The Collection Framework: The Collection Interface, Collection Classes, Working with Maps & Sets.

UNIT – V

JDBC: Introduction to DBMS & RDBMS, DBC API, JDBC Application Architecture, Obtaining a Connection, JDBC Models: Two Tier and Three Tier Model, ResultSet, Prepared Statement, Callable Statement.

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RMI (Remote Method Invocation): Introduction, Steps in creating a Remote Object, Generating Stub & Skeleton, RMI Architecture, RMI packages.

Text Books:

1. Patrick Naughton and HerbertzSchildt, “Java-2: The Complete Reference”, TMH, 5theditio, 2002.
2. Bill Venner, “Inside Java Virtual Machine”, TMH, 2nd edition.
3. Rick Darnell, “HTML 4 unleashed”, Techmedia Publication, 2000
4. Shelley Powers, “Dynamic Web Publishing”, 2nd edition, Techmedia, 1998.
5. Paul Dietel and Harvey Deitel, “Java How to Program”, PHI, 8th edition, 2010.

Reference Books:

1. E. Balagurusamy, “Programming with Java: A Primer”, TMH, 1998.
2. Horstmann, “Computing Concepts with Java 2 Essentials”, John Wiley.
3. Decker and Hirshfield, “Programming Java: A Introduction to Programming Using JAVA”, Vikas Publication, 2000.
4. Daniel Liang, “Introduction to Java Programming”, Pearson, 7th edition, 2010.

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BCCA502	Compulsory	Operations Research	3	1	0	4	60	20	20	0	0

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***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in class (Given that no component shall exceed 10 Marks)

Course Objective

- To introduce the students with the Fundamentals of the Operations Research.

Course Outcomes

After the successful completion of this course students will be able to

- Apply the methods of the OR and the LPP.
- Understand and design the graphical test of the LPP with conclusions.
- Know the fundamental principles of the simplex method and the duality.
- Solve the transportation problems.
- Find the solution of the assignment problems.

Unit I

Introduction to Operations Research & Linear Programming: Introduction, Historical Background, Scope of Operations Research, Features of Operations Research, Phases of Operations Research, Types of Operations Research Models, Operations Research Methodology, Operations Research Techniques and Tools, Structure of the Mathematical Model, Limitations of Operations, Introduction, Linear Programming Problem, Requirements of LPP, Mathematical Formulation of LPP, Case Studies of LPP, Graphical Methods to Solve Linear Programming Problems, Applications, Advantages, Limitations.

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BCCA502	Compulsory	Operations Research	3	1	0	4	60	20	20	0	0

Unit II

Graphical Analysis of Linear Programming Problems: Introduction, Graphical Analysis, Some Basic Definitions, Graphical Methods to Solve LPP, Some Exceptional Cases, Important Geometric Properties of LPP

Unit III

Simplex Method & Duality in Linear Programming Problem: Introduction, Standard Form of LPP, Fundamental theorem of LPP, Solution of LPP – Simplex Method, The Simplex Algorithm, Penalty Cost Method or Big M-method.

Unit IV

Transportation Problem: Introduction, Formulation of Transportation Problem (TP), Transportation Algorithm (MODI Method), the Initial Basic Feasible Solution, Moving Towards

Unit V

Assignment Problem: Introduction, Mathematical Formulation of the Problem, Hungarian Method Algorithm, Routing Problem, Travelling Salesman Problem

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BCCA502	Compulsory	Operations Research	3	1	0	4	60	20	20	0	0

TEXT BOOKS:

1. Hillier FS and Liberman GJ; Introduction to Operations Research concept and cases; TMH
2. Srinivasan G; Quantitative Models In Operations and SCM; PHI Learning
3. Taha H; Operations research; PHI
4. Sen RP; Operations Research-Algorithms and Applications; PHI Learning
5. Sharma JK; Operations Research; Macmillan
6. Ravindran , Philips and Solberg; Operations research; Wiley India
7. Bronson R ;Theory and problems of OR; Schaum Series; TMH

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BCCA503	Compulsory	Web Designing	3	1	0	4	60	20	20	0	0

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Course Educational Objectives (CEOs):

- To provide an introduction to the fundamental concepts of HTML and PHP.
- To familiarize with web designing

Course Outcomes (COs): The student will be able to:

- Learn about basic Internet Knowledge.
- Understand how to develop static webpage.
- Develop static Website.
Develop dynamic WebPages using PHP

Syllabus:

UNIT-I

Introduction to HTML

HTML, HTML document structure tags, HTML text formatting tags, Inserting Special characters, Anchor tag, List tag, Adding images and sound.

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BCCA503	Compulsory	Web Designing	3	1	0	4	60	20	20	0	0

UNIT-II

Advanced HTML

Tables, Frames and floating, developing forms.

UNIT-III

CSS (Cascading Style Sheet)

Introduction to CSS, Need of designing in HTML pages, Tag structure, various selectors (ID, class), various properties of font and div tag.

UNIT-IV

Introduction to PHP

Introduction to PHP, Data Types, Variables, Expressions and Operators, Flow-Control Statements, Including Code, Embedding PHP in Web Pages, Functions, Variable Functions, Anonymous Functions, Strings, String Manipulation, Regular Expressions, Arrays, Multidimensional Arrays, Traversing Arrays, Sorting, Acting on Entire Arrays.

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BCCA503	Compulsory	Web Designing	3	1	0	4	60	20	20	0	0

UNIT-V

Data Access & Error Handling

Web Techniques, HTTP Basics, Server Information, Processing Forms, Setting Response Headers, Maintaining State, Databases, Using PHP to Access a Database, Security, Session Fixation, File Uploads, File Access, PHP Code, Handling Output, Error Handling.

Text Books:

1. Php, mysql and apache – Julie c. Meloni.
2. Introduction to Internet and HTML scripting – Bhumik Shroff.
3. Web Technology and design – C Xavier.

Reference Books:

1. HTML & CSS Design and Build Websites Jon Duckett.
2. The Essential Guide to CSS and HTML Web Design-Craig Grannell.
3. PHP: The Complete Reference.

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BBAIEF505 BANKING SERVICES AND MANAGEMENT

SUBJECT CODE	SUBJECT NAME	TEACHING & EVALUATION SCHEME								
		THEORY			PRACTICAL		L	T	P	CREDITS
		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BBAIEF505	Banking Services and Management	60	20	20	0	0	4	0	0	4

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***Teacher Assessment** shall be based on following components: Quiz/Assignment/ Project/ Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives

1. The objective of the course is to providing an in-depth analysis of the commercial banking in the liberalized Indian economy
2. Familiarizing the students with the regulating framework for banks in India

Examination Scheme

The internal assessment of the students' performance will be done out of 40 Marks. The semester Examination will be worth 60 Marks. The question paper and semester exam will consist of two sections A and B. Section A will carry 36 Marks and consist of 5 questions, out of which student will be required to attempt any three questions. Section B will comprise of one or more cases / problems worth 24 marks.

Course Outcomes

1. Equip the students with the in depth knowledge of financial management in the banking organizations.
2. Give understanding of new banking practices and processes.
3. Familiarize the students with concept of CAR, Liquidity ratios.

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BBAIEF505	Banking Services and Management	60	20	20	0	0	4	0	0	4

COURSE CONTENT

Unit I: Introduction to Indian Banking System

1. Indian Financial System: An Overview
2. Indian Banking System ,Role and Importance of Banks
3. Banking Structure in India ,Types of Banks

Unit II: Analysis of the Banking Structure

1. Analysis of the Banking Structure
2. Interpreting Bank Balance Sheet
3. Income Expenditure Statements
4. CAR, Liquidity Ratios, Structural Ratios and Profitability Ratios

Unit III: Banking Regulations

1. Banking Regulations
2. CRR, SLR, CRAR
3. Provision for NPAs , Impact of NPA, Factors responsible for NPA
4. Credit Risk Management
5. Treasury Management

Unit IV: Banking Organizations

1. Loan Management
2. Investment Management
3. Asset Liability Management Using traditional GAP and Modern Techniques

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BBAIEF505	Banking Services and Management	60	20	20	0	0	4	0	0	4

Unit V: Opportunities for Banks

1. Mergers and Acquisition
2. Opportunity for Strengthening the Banking Organization
3. International Banking Organizational Structure, Activities and Regulation

Suggested Readings

1. Rejda, G. (2010). *Principles of Risk Management and Insurance*. Pearson, Boston.
2. Iyenge, V. (2010). *Introduction to Banking*. Excel Books, New Delhi.
3. Arunajatesan, S. & Viswanathan, T. R. (2009). *Risk Management & Insurance*. Macmillan Publishers, India.
4. Hull, John C. (2010). *Risk Management and Financial Institutions*. Pearson, Singapore.
5. Joshi, V. and Joshi, V. (1998). *Managing Indian Bank*. Response Books, London.
6. Paul, J. (2010). *Management of Banking and Financial Services*. Pearson, India.

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BCBT515	Elective	Information and Computer Security	3	1	0	4	60	20	20	0	0

Course Education Objectives (CEOs):

This introductory course is aimed at giving basic understanding about Information and computer security. This entry-level course covers a broad spectrum of security topics and is based on real-life examples to create Information and computer security interest in the students. A balanced mix of technical and managerial issues makes this course appealing to attendees who need to understand the salient facets of information and computer security basics and the basics of risk management.

Course Outcomes (COs):

At the end of the course, the students have firm understanding on basic terminology and concepts related to Information and system level security, basics of computers and networking including Internet Protocol, routing, Domain Name Service, and network devices. They are also exposed to basic cryptography, security management, and network security techniques. They also look at policies as a tool to effectively change an organization's culture towards a better secure environment.

UNIT - I:

History of Information and Computer Security, Attacks and Attackers, Security Management, Risk and Threat Analysis, Foundations of Information and Computer Security, Fundamental Dilemma of Information and Computer Security, Data vs. Information, Principles of Information and Computer Security.

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BCBT515	Elective	Information and Computer Security	3	1	0	4	60	20	20	0	0

UNIT - II:

Identification and Authentication: Username and Password, Bootstrapping Password Protection, Guessing Passwords, Phishing, Spoofing and Social Engineering, Protecting the Password file, Single Sign-On.

Access Control: Authentication and Authorization, Access Operations, Access Control Structures, Ownership, Intermediate Controls, Policy Instantiation, Comparison of Security Attributes.

UNIT - III:

Database Security: Introduction, Relational Databases, Access Control, Statistical Database Security, Integration with the Operating System, Privacy.

Software Security: Introduction, Characters and Numbers, Canonical Representations, Memory Management, Data and Code, Race Conditions, Defences.

Bell-LaPadula Model: State Machine Models, The Multics Interpretation of BLP.

Security Models: The Biba Model, Chinese Wall Model, The Clark-Wilson Model

UNIT - IV:

Cryptography: Introduction, Integrity Check Functions, Digital Signatures, Encryption: Data Encryption Standard, RSA Encryption; Strength of Mechanisms.

Key Establishment: Introduction, Key Establishment and Authentication, Key Establishment Protocols, Kerberos, Public Key Infrastructures.

UNIT - V:

Communications Security: Introduction, Protocol Design Principles, IP Security, IPsec and Network Address Translation.

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BCBT515	Elective	Information and Computer Security	3	1	0	4	60	20	20	0	0

Network Security: Introduction, Firewalls, Intrusion Detection.

Web Security: Introduction, Authenticated Sessions, Code Origin Policies, Cross Site Scripting, Cross-Site Request Forgery, JavaScript Hijacking, Web Services Security.

Text Books:

1. Dieter Gollmann. Computer Security, 3rd Edition, Wiley, 2014. ISBN: 978-81-265-5082-1.

Reference Books:

1. John Vacca, Computer and Information Security Handbook, 3rd Edition, Morgan Kaufmann, ISBN: 9780128038437.
2. Michael E. Whitman, Herbert J. Mattord, Principles of Information Security, 4th Edition, Thomson, ISBN: 9781111138219.
3. Umesha Nayak, Umesh R Hodeghatta, The InfoSec Handbook: An Introduction to Information Security, 1st Edition, Apress, ISBN: 978-1430263821.
4. Mark Stump, Information Security: Principles and Practice, 2nd Edition, Wiley-Blackwell, ISBN: 978-0470626399

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Name of Program: BCA + MCA (Banking Technology)

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							THEORY			PRACTICAL	
							END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*
BCCA525	Elective	Information Systems for Management	3	1	0	4	60	20	20	0	0

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

Q/A – Quiz/Assignment/Affendance, MST - Mid Sem Test.

***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in class (Given that no component shall exceed 10 Marks)

Course Educational Objectives (CEOs):

- To develop an understanding among the students about and the role of Information System with its importance and role in society and organizations
- To develop an understanding among the students about MIS, its architecture with importance and various stages involved in MIS development.
- To understand the concept of Systems development life cycle (SDLC), BPR and ERP.
- To introduce about virtual organization concept, information security and cyber law.
- Make the students capable to identify, conceptualize, and develop solutions as a group for successful information systems management and present them.
- Make the students aware about concept of data mining, Business Intelligence (BI), Data Warehousing, Online Analytical Processing (OLAP) and Online transaction processing (OLTP).

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Course Outcomes (Cos): At the end of the course, it is expected that students will be able to

- Understand the activities that are undertaken in acquiring an Information System in an organization.
- Understand Management Information Systems (MIS) and their role in today's organizations.
- Identify how MIS shapes and controls current (or prospective) jobs and how to use this insight to improve your own job performance and satisfaction and enhance future career prospects.
- Become familiar with the concept of BPR and ERP.
- Identify importance of data mining, Business Intelligence (BI), Data Warehousing, Online Analytical Processing (OLAP) and Online transaction processing (OLTP).

Syllabus:

UNIT-I

Introduction to Information Systems: Introduction to basic system concepts and its types, Data Vs Information, definition and Concept of an information system, Characteristics and Value of Information, Information System Resources, Importance of Information system for decision making and strategy building, Role of Information Systems in Society and organization, Constraints and Limitations of Information System.

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UNIT-II

Introduction to MIS: Management, Information, System, Concepts of management information system, MIS evolution, MIS architecture, Need for MIS, functions of MIS, Planning techniques of MIS, Limitations of MIS, Types of Information System: Transaction Processing Systems, Office Automation Systems, Decision Support Systems, Executive Information System.

UNIT-III

Development of Information System: Different steps in Systems development life cycle (SDLC) like Planning, Analysis, Design, Implementation, maintenance and review.

Management of Enterprise Resources: Enterprise Resource Planning (ERP): Introduction and Implementation of ERP. Business process reengineering (BPR): Introduction and Process of BPR.

UNIT-IV

Management Trends: Trends in management and organizations, movement towards flexible, virtual organizations with advantages and disadvantages, MIS and mobile computing, MIS and social media. Information security and cyber law: Introduction.

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UNIT-V

Data Mining: Introductions and name of its applications. Business Intelligence (BI): introduction, features and name of tools used for decision making, Data Warehouse: Introduction, features and name of applications, Introduction of Online Analytical Processing (OLAP) and online transaction processing (OLTP).

Text Books:

1. Kenneth C. Laudon & Jane P. Laudon (2019), 'Essentials of Management Information Systems', Pearson Prentice-Hall, 13th Edition.
2. James, A. O'Brien (2017). "Introduction to Information Systems", Tata McGraw Hill, 12th Edition.
3. Goyal, D.P. (2014). "Management Information Systems: Managerial Perspectives", Macmillan India Ltd.
4. McNurlin, Sprague & Bui (2009), "Information Systems Management in Practice", Prentice Hall, 8th Edition.
5. Jawadekar, W. S. (2004). "Management Information Systems", Tata McGraw Hill.

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BCBT535	Elective	Information Storage and Management	3	1	0	4	60	20	20	0	0

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit; Q/A – Quiz/Assignment/Attendance, MST - Mid SEM Test.

***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in class (Given that no component shall exceed 10 Marks)

Course Educational Objectives (CEOs):

- Goals of an ISM are to implement the organizational structure and dynamics of the enterprise for the purpose of managing the organization in a better way and capturing the potential of the information system for competitive advantage.

Course Outcome (COs) s : After the successful completion of this course students will be able to

- Understand the value of data to a business.
- List the components of the Storage Systems Architecture.
- To understand about Storage Technology.

UNIT – I

Introduction to Storage Technology: - Data proliferation, evolution of various storage technologies, Overview of storage infrastructure components, Information Lifecycle Management, Data categorization.

UNIT – II

Storage Systems Architecture:- Intelligent disk subsystems overview, Contrast of integrated vs. modular arrays, Component architecture of intelligent disk subsystems, Disk physical structure components, properties, performance, and specifications, RAID levels & parity algorithms, hot sparing, Front end to host storage provisioning, mapping and operation.

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BCBT535	Elective	Information Storage and Management	3	1	0	4	60	20	20	0	0

UNIT – III

Introduction to Networked Storage:- JBOD, DAS, NAS, SAN & CAS evolution and Comparison Applications, Elements, connectivity, standards, management, security and limitations of DAS, NAS, CAS & SAN.

UNIT – IV

Hybrid Storage solutions: - Virtualization: Memory, network, server, storage & appliances Data center concepts & requirements, Backup & Disaster Recovery: Principles Managing & Monitoring: Industry management standards (SNMP, SMIS, CIM), standard frame work applications, Key management metrics (Thresholds, availability, capacity, security, performance).

UNIT – V

Information storage on cloud :- Concept of Cloud, Cloud Computing, storage on Cloud, Cloud Vocabulary, Architectural Framework, Cloud benefits, Cloud computing Evolution, Applications & services on cloud, Cloud service providers and Models, Essential characteristics of cloud computing, Cloud Security and integration.

Text Books:

1. John W. Rittinghouse and James F. Ransome; Cloud Computing: Implementation, Management and Security, CRC Press, Taylor Frances Pub.
2. Nick Antonopoulos, Lee Gillam; Cloud Computing: Principles, System & Application, and Springer.
3. Anthony T. Velete, Toby J. Velk, and Robert Eltenpeter, Cloud Computing: A practical Approach, TMH Pub.
4. Saurabh, Cloud Computing: Insight into New Era Infrastructure, Wiley India.
5. Sosinsky, Cloud Computing Bible, Wiley India

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BCCA506	Compulsory	Lab-I (JAVA Lab)	0	0	4	2	0	0	0	30	20

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

Q/A – Quiz/Assignment/Attendance, MST - Mid Sem Test.

***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in class (Given that no component shall exceed 10 Marks)

Course Education Objectives (CEOs):

- Students must be able to understand fundamentals of programming such as variables, conditional and iterative execution, methods etc.
- Students must be able to understand fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries etc.
- Students must have the ability to write a computer program to solve specified problems.
- Students must be able to use the Java SDK environment to create, debug and run simple Java programs.

Course Outcomes (COs): After the successful completion of the course students will be able to perform the following tasks:

- Write, compile, and execute Java programs that may include basic data types and control flow constructs using Integrated Development Environments (IDEs) such as Eclipse, NetBeans, and JDeveloper.
- Write, compile and execute Java programs using object oriented class structures with parameters, constructors, utility and calculations methods including inheritance, test classes and exception handling.
- Write, compile and execute Java programs using arrays and recursion, manipulating Strings and text documents.
- Write, compile and execute Java programs that include GUIs and event driven programming.
- Write a final project that may be selected from among the following: applets for inclusion in web pages; applets to access enterprise data bases in robust, enterprise three level applications; secure communications over the internet; or an approved project chosen by the student.

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BCCA506	Compulsory	Lab-I (JAVA Lab)	0	0	4	2	0	0	0	30	20

List of Experiments:

- Write a Java program that prompts the user for an integer and then prints out all prime numbers up to that integer.
- Write a Java program that checks whether a given string is a palindrome or not. Ex: MADAM is a palindrome.
- Write a Java program for sorting a given list of names in ascending order.
- Write a Java Program that reads a line of integers, and then displays each integer, and sum of all the integers (use StringTokenizer class).
- Write a Java program that reads a file and displays the file on the screen, with a line number before each line.
- Write a Java program that displays the number of characters, lines and words in a text file.
- Write a Java program for creating multiple threads
 - Using Thread class.
 - Using Runnable interface.
- Write a Java program that illustrates how run time polymorphism is achieved.
- Write a java program that illustrates the following
 - Creation of simple package.
 - Accessing a package.
 - Implementing interfaces.
- Write a java program that illustrates the following
 - Handling predefined exceptions.
 - Handling user defined exceptions .
- APPLETS
 - Working with Frames and various controls.
 - Working with Dialogs and Menus.
 - Working with Panel and Layout.
 - Incorporating Graphics.
 - Working with colours and fonts.

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BCCA506	Compulsory	Lab-I (JAVA Lab)	0	0	4	2	0	0	0	30	20

12. SWINGS

Jpanel- Jframe – Jtoolbar—JwindowFramework

Text Books:

1. Patrick Naughton and HerbertzSchildt, “Java-2: The Complete Reference”, TMH, 5theditio, 2002.
2. Bill Venner, “Inside Java Virtual Machine”, TMH, 2nd edition.
3. Rick Darnell, “HTML 4 unleashed”, Techmedia Publication, 2000
4. Shelley Powers, “Dynamic Web Publishing”, 2nd edition, Techmedia, 1998.
5. Paul Dietel and Harvey Deitel, “Java How to Program”, PHI, 8th edition, 2010.

Reference Books:

1. E. Balagurusamy, “Programming with Java: A Primer”, TMH, 1998.
2. Horstmann, “Computing Concepts with Java 2 Essentials”, John Wiley.
3. Decker and Hirshfield, “Programming Java: A Introduction to Programming Using JAVA”, Vikas Publication, 2000.
4. N.P. Gopalan and J. Akilandeswari, “Web Technology- A Developer’s Perspective”, PHI, 2nd edition
5. Eric Jendrock, Jennifer Ball, Debbei Carson, “The Java EE5 Tutorial”, Pearson, 3rd edition, 2007.
6. Daniel Liang, “Introduction to Java Programming”, Pearson, 7th edition, 2010.

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BCCA507	Compulsory	Lab-II (Web Designing Lab)	0	0	4	2	0	0	0	30	20

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***Teacher Assessment** shall be based on following components: Quiz/Assignment/Project/Participation in class (Given that no component shall exceed 10 Marks)

Course Educational Objectives (CEOs):

- To provide an introduction to the fundamental concepts of HTML and PHP.
- To familiarize with web designing

Course Outcomes (COs):: The student will be able to:

- learn about basic Internet Knowledge.
- understand how to develop static webpage.
- develop static Website.
- develop dynamic WebPages using PHP

List of Practical for HTML

1. How to develop a simple webpage.
2. Develop a webpage using different HTML tags.
3. Develop a webpage using Table tag.
4. Develop a webpage using Frame tag.
5. Develop a webpage using Form tag
6. Develop a static website using HTML tags.

List of Practical for PHP

1. Write PHP program to print “Hello World” on the screen.
2. Write PHP program to create a variable and assign value to the variable.
3. Write a program using string operator.
4. Write a program to find the length of string.
5. Write a program using stripslashes () function.

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BCCA507	Compulsory	Lab-II (Web Designing Lab)	0	0	4	2	0	0	0	30	20

6. Make a program using operators in PHP.
7. Write a program using If...Else statement.
8. Write a program using Numeric array, Associate array and Multidimensional array
9. Write a program using While, for and do...while looping statement.
10. Write a program using switch statement.
11. Write a program that writes name when function is called.
12. Create a Form using PHP.
13. Create a connection to a MYSQL database.
14. Create an ODBC connection.
15. Make one application using PHP for select, Insert, Update and Delete from the Database.

Text Books:

1. Php, mysql and apache – Julie c. Meloni.
2. Introduction to Internet and HTML scripting – BhumikShroff.
3. Web Technology and design – C Xavier

Reference Books:

- 1..HTML& CSS Design and Build Websites Jon Duckett
2. The Essential Guide to CSS and HTML Web Design-Craig Grannell
- 3.PHP: The Complete Reference.

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