North Maharashtra University, Jalgaon

FACULTY OF COMMERCE & MANAGEMENT

Structure and Syllabus of –

Third Year BCA [Sem. VI]

Bachelor of Computer Application (BCA)

W.E.F. Academic Year 2013-14

North Maharashtra University, Jalgaon

(NACC Accredited 'B' Grade University)

FACULTY OF COMMERCE & MANAGEMENT

Bachelor of Computer Application [BCA] Sem - VI

W.E.F. FROM ACADEMIC YEAR: 2013-14

Subject Code	Name	Marks
BCA – 61	Stock and Commodity Market	100
BCA – 62	Introduction to ERP and SAP	100
BCA – 63	Java Programming	100
BCA – 64	Competitive Skills	100
BCA – 65	Practicals on Transactions related to Commodity and Stocks	100
BCA – 66	Practicals on Java Programming	100
BCA – 67	Project	100

North Maharashtra University, Jalgaon
(NACC Re-Accredited 'B' Grade University)
FACULTY OF COMMERCE & MANAGEMENT
B.C.A. Semester VI
BCA – 61   Stock and Commodity Market
80 + 20 Pattern: External Marks 80 + Internal Marks 20 = Maximum Total Marks: 100
[Total Lectures: 48]

Objectives –

1. To introduce various auditing Techniques and tools to the students.
2. To enable the students to know the Corporate Accounting practices, and the auditing practices followed in the audit of certain other entities
3. To introduce the students the relevant Auditing & Assurance Standards

1) Introduction -   Lectures - 6
a. Stock Exchanges (BSE, NSE, OTCEI) -
    i. Functions
    ii. Advantages
    iii. Organization
b. Growth of Indian Stock Market

2) Primary Market   Lectures - 6
a. Types of shares - Debentures- Bonds
b. Initial Public Offer
c. Merchant banker to an issue
d. Underwriters
e. Credit Rating Agencies

3) Secondary Market   Lectures - 6
a. Meaning, Significance & Scope
b. Secondary Market Intermediaries
c. Stock brokers, Sub brokers, advisers
d. Depositories
e. Custodian - Share transfer agents
f. Listing

4. Mutual Funds   Lectures - 6
a. Concept
b. Advantages of mutual fund investing
c. Types of Funds :Liquid fund, Equity fund, Debt fund, Hybrid Fund, Commodity fund, Real Estate funds, Fund of Funds etc.

5. Screen based trading   Lectures - 8
a. Types of Indexes :Nifty, Sensex, Sector Indexes
b. Client Code

c. Contract Note
d. Price Band
e. Clearing & Settlements
f. Rolling Settlements
g. Settlement guarantee funds
h. Margin
i. Arbitrage
j. No Delivery Period

6. Commodity Derivatives   **Lectures - 8**
a. Concept of Commodity, Commodity Exchanges, Futures Contracts
b. Differences between Physical & Future Market
c. Trading in Commodity Markets
d. Efficiency of Commodity Markets
e. Size of Commodity Markets in India
f. Benefits of Commodity Markets
g. Commodity Markets of India
h. Global Commodities Exchanges
i. Commodity Specific Issue

7. **Introduction to Derivatives**   **Lectures - 8**
a. Derivatives Defined
b. Types of Derivatives
        i. Financial Derivatives
        ii. Commodity Derivatives
c. Products, Participants & Functions

North Maharashtra University, Jalgaon

(NACC Re-Accredited 'B' Grade University)

FACULTY OF COMMERCE & MANAGEMENT

B.C.A. Semester VI

BCA – 62   Introduction to ERP and SAP

80 + 20 Pattern: External Marks 80 + Internal Marks 20 = Maximum Total Marks: 100

[Total Lectures: 48]

---

1. Introduction to ERP   Lectures 11

a. Meaning, Need, Merits & Demerits of ERP
b. Concepts of ERP related technologies
i. MRP I and MRP II
ii. Management information system (MIS)
iii. Data warehousing and Data Mining
iv. Supply chain Management (SCM)
v. OLAP(On Line Analytical Processing)

2. ERP implementation lifecycle   Lectures 12

a. Evaluation and selection of ERP Package
b. Project Planning & Implementation
c. Team training and testing
d. End user training
e. Going Live
f. Post evaluation and maintenance
g. Risks associated with ERP

3. ERP Modules and Vendors   Lectures 12

a. Finance b. Sales and Distribution c. Inventory Control
d. Vendors, consultants and users

4. ERP Software Overview   Lectures 03

a. SAP b. BAAN c. Oracle

5. Introduction to SAP   Lectures 10

a. Meaning History and features of SAP
b. SAP R/2 Architecture and its Limitations c. SAP R/3 Architecture & Application Modules
Note : Study Visit be used as an additional Means to impart the Practical knowledge of ERP.

Reference Books
1. Enterprise Resource Planning – Alexix Leon– TATA McGraw Publication
2. ERP Ware: ERP implementation Framework – V. K. Garg & N. K. Venkitakrishnan

North Maharashtra University, Jalgaon
(NACC Re-Accredited 'B' Grade University)
FACULTY OF COMMERCE & MANAGEMENT
B.C.A. Semester VI
BCA – 63   Java Programming
80 + 20 Pattern: External Marks 80 + Internal Marks 20 = Maximum Total Marks: 100
[Total Lectures: 48]

1. Introduction to Java: [4]

Java as programming tool, Advantages of Java(Simple Object oriented, distributed, robust, secure, Architecture Neutral, Portable, Interpreted, High performance, Multithreading, dynamic. Java & Internet

2. Fundamental Programming Structures in Java [7]

Comments, Data types (Integer, floating pt., character type, Boolean, enumerated), Casting, Variables, Arrays, Assignments, Initializations (Conversion between Numeric Types, constants), operators. Input and Output, A simple java programs, Compiling and running Java programs using command line and Editors, command line arguments. **Control flows**: conditional statement, loops, Switch statements, break statements, Block scope.

3. Objects and Classes [7]

Introduction, Defining a class, Adding variables, Adding methods, Creating objects, Accessing class members, Constructors, Method Overloading, Static members, Nesting of methods.

4. Functions in Java [6]

String functions (Concatenation, substring, string editing, testing for equality), Formatting functions, Date and Time functions using Gregorian calendar class.

5. Inheritance [7]

Inheritance, Inheritance hierarchies, super class, sub class, Polymorphism, Abstract classes, Access modifiers, Wrapper classes, interfaces, Inner classes.

6. Exception Handling [5]

Dealing with errors (The classification of exceptions, How to throw the exception) catching exceptions.

7. Multithreading [5]

Concept of Multithreading, Thread Life Cycle

8. **Applets** [7]

Applet basics, Simple Applets, Testing Applets, Converting Application to Applets, Life cycle of an applet. The Applet HTML tags & attributes. Use of parameters to pass information to an applet.

REFERENCE BOOKS:

1. Core Java Volume – I Fundamentals – By : Cay's Horstmann and Gary Cornell.
2. Programming with Java - By : E Balagurusamy (Tata McGraw Hill)
3. The complete reference JAVA-2 Fifth Edition By: Herbert Schildt (TMH)

North Maharashtra University, Jalgaon
(NACC Re-Accredited 'B' Grade University)
FACULTY OF COMMERCE & MANAGEMENT
B.C.A. Semester VI
BCA – 64   Competitive Skills
80 + 20 Pattern: External Marks 80 + Internal Marks 20 = Maximum Total Marks: 100
[Total Lectures: 48]

1.0 Business Repports and Proposals   **Lectures 16**
    1.1 Meaning of a Report
    1.2 Purpose of Business Reports
    1.3 Steps in Writing routine Business Report
    1.4 Parts of a Report
    1.5 Corporate Reports
    1.6 Business Proposals- format, Layout & Design

2.0 Meetings and Conferences   **Lectures 16**
    2.1 Need of Meetings & Conferences
    2.2 Planning a Meeting
    2.3 Process of Meeting
    2.4 Requirements of Effective Meeting
    2.5 Evaluation of Meetings
    2.6 Minutes of a Meeting
    2.7 Planning a Conference
    2.8 Web Conferencing

3.0 Team Briefing   **Lectures 16**
    3.1 Meaning, Features, Process & Benefits of Briefing
    3.2 Briefing Down the Line
    3.3 Techniques of Briefing
    3.4 Formats for the Information Briefing

Books for reference -
Business Communication Minakshi Raman & Prakash Singh Oxford Unv Press

North Maharashtra University, Jalgaon

(NACC Re-Accredited 'B' Grade University)
FACULTY OF COMMERCE & MANAGEMENT
B.C.A. Semester VI
BCA – 65   *Practicals on Transactions related to*
Commodity and Stocks

80 + 20 Pattern: External Marks 80 + Internal Marks 20 = Maximum Total Marks: 100
[Total Lectures: 48]

Transactions related to Commodity and Stocks

(Note: The Student has to maintain a Journal in which the experience of the student at the visited
place shall be written along with the supporting documents to the satisfaction of the internal guide teacher. The external examination shall be conducted as viva-voce based on the practicals recorded in the journal by the external examiner for 40 marks.)

1 Visit to an office of Broker/Sub-broker of Commodities and Stocks for understanding the organization and administration of office.

2 To study Stock purchase transactions on line with the help of software at the Broker/ Sub broker's office.

3 To study Stock sales transactions on line with the help of software at the Broker/ Sub broker's office.

4 To examine, study and obtain the output of account statements to be sent to the regular customers including commission and brokerage for the transactions during a specified period.

North Maharashtra University, Jalgaon

(NACC Re-Accredited 'B' Grade University)

FACULTY OF COMMERCE & MANAGEMENT

B.C.A. Semester VI

BCA – 66   Practicals on Java Programming

80 + 20 Pattern: External Marks 80 + Internal Marks 20 = Maximum Total Marks: 100

[Total Lectures: 48]

1. Write a program in Java for displaying "NMU, Jalgaon" given number of time.
2. Write a program in Java to demonstrate various string functions
3. Write a program in Java for simple inheritance
4. Write a program in Java for interfaces
5. Create a java program for demonstrating array and its methods.
6. Create a java program for demonstrating polymorphism.
7. Write a program in Java for Fibonacci series
8. Create a java program to demonstrate applet life cycle
9. Create an applet to draw various geometric shapes like circle, line, rectangle
10. Write a program in Java to demonstrate Java Applet with parameter

North Maharashtra University, Jalgaon
(NACC Re-Accredited 'B' Grade University)
FACULTY OF COMMERCE & MANAGEMENT
B.C.A. Semester VI
BCA – 67   Project Report
80 + 20 Pattern: External Marks 80 + Internal Marks 20 = Maximum Total Marks: 100
[Total Lectures: 48]

1.1 Each student shall have to carry out the project work based on computer application in a real life situation based on the language/ software learned in the course. A project may be carried out at any outside organization or on a sub system of an organization.

1.2 The project work should be carried out individually. No group work is allowed in the Project work. The project title should not be repeated.

1.3 The topic of the project should be decided with the consultation & guidance of an internal guide-teacher of the institute/college. The project should be necessarily innovative and problem solving. No teacher shall be entrusted with more than 10 students for guidance and supervision.

1.4 The institute/ college shall submit the detailed list of candidates with Project Titles and internal guide to the university within a week of title finalization of such titles by the guide/ internal teacher. Such a title finalization must be completed before end of the second week of the sixth semester.

1.5 The student should clearly mention the need of project , database(s), files required for the project, DFD , Normalization, ERD, software used for the project, reasons for selection of that software, inputs required, outputs produced etc.

1.6 The application should be menu driven and should provide the facilities of storage of data, modifications in existing data, deletion of unwanted data, and viewing of data.

1.7 The student has to write a report based on the actual work undertaken during the vacations at the specific selected enterprise/ organization or sub system and get it certified by the concerned teacher that the Project report has been satisfactorily completed and submit TWO typed copies of the same to the Head / Director of the institute /Principal of the college.

1.8 One copy of the report submitted by the student shall be forwarded to the University by the Institute.

1.9 The project work will carry maximum 100 marks, of which internal teacher shall award marks out of maximum 20 marks on the basis of project work done by the student as a continuous assessment. Remaining marks shall be awarded out of maximum 80 marks by examining the student during Viva-voce, by the panel of the external examiners to be appointed by the University.

1.10 No student will be permitted to appear for Viva-voce examinations, unless and until (s)he submits the project report before the stipulated time.