

## DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

CIRCULAR NO.SU/Commerce & Management/ V Sem./00/2020

It is hereby inform to all concerned that, on the recommendation of the Dean, Faculty of Commerce & Management, the Hon'ble Vice-Chancellor in his emergency powers under section-12(7) of the Maharashtra Public Universities Act, 2016 has accepted the syllabi of **B.Com., BBA & BCA V Sem. & MPM I Sem.** under Choice Based Credit and Grading System on behalf of the Academic Council to be applied from the Academic Year 2020-2021 and onwards. The said syllabi are also available on bamu.ac.in on University website.

All concerned are requested to note the contents of this circular and bring notice to the students, teachers and staff for their information and necessary action.

University Campus,  
Aurangabad-431 004.

REF.NO. SU/ COMMERCE/2020-21/

13429-38

Date:- 20-07-2020.

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*Emergency*  
Deputy Registrar,  
Syllabus Section.

## Copy forwarded with compliments to :-

- 1] The Principals, affiliated concerned Colleges,  
Dr. Babasaheb Ambedkar Marathwada University.
- 2] The Director, University Network & Information Centre, UNIC, with a request to upload this Circular along with the said syllabi on University Website.

## Copy to :-

- 1] The Director, Board of Examination & Evaluation,
- 2] The Section Officer, [ B.Com. Unit ] Examination Branch,
- 3] The Programmer [Computer Unit-1] Examinations,
- 4] The Programmer [Computer Unit-2] Examinations,
- 5] The In-charge, [E-Suvidha Kendra], Rajarshi Shahu Maharaj Pariksha Bhavan, Dr. Babasaheb Ambekar Marathwada University.
- 6] The Public Relation Officer.
- 7] The Record Keeper.

B.C.A. V sem

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**DR. BABASAHEB AMBEDKAR  
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AURANGABAD.**



Curriculum of  
BACHELOR OF COMPUTER APPLICATION  
(BCA)  
IIIIRD YEAR  
FIFTH SEMESTER  
under Choice Based Credit & Grading System

*[ Effective from the Academic Year 2020-21 & onwards ]*

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DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

FACULTY OF COMMERCE & MANAGEMENT

Syllabus - Bachelor of Computer Application (BCA)

Choice Based Credit System (CBCS)

Semester & Credits	Core Course [04]	Ability Enhancement Compulsory Courses [AEC] [01]	Discipline Specific Elective [DSE] [01]
V Credit 24	1. Management Accounting 2. SQL 2017 3. VB 4. Organizational Behavior	1. Software Engineering	Elective Paper [Any One] 1. Banking & Insurance OR 2. Retail Management
Total Credits 24	No. of Credits : 16	No. of Credits : 04	No. of Credits : 04


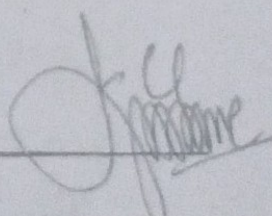
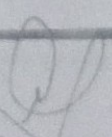
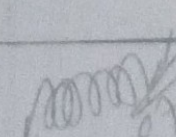
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Prof. W. K. Sarwade (Dean & BOS Chairman)  
Prof. Syed Azharuddin (Chairman BOS)  
Prof. Satyaprem Ghumre (Chairman BOS)  
Dr. Kishor Salve (Chairman BOS)



Structure of B. C. A. Fifth Semester  
Choice Based Credit Grading System (CBCS) 2020 - 21

Paper Number	Subject/ Title of the Paper	Course	Weekly		Credits		IA	UA	Total Marks	Duration of Theory Exam
			Th	Pr	Th	Pr				
XXV	Management Accounting	Core Course	4	-	4	-	20	80	100	3 Hrs
XXVI	SQL 2017	Core Course	4	-	4	-	20	80	100	3 Hrs
XXVII	VB	Core Course	4	-	4	-	20	80	100	3 Hrs
XXVIII	Organizational Behavior	Core Course	4	-	4	-	20	80	100	3 Hrs
XXIX	Software Engineering	Ability Enhancement Compulsory	4	-	4	-	20	80	100	3 Hrs
XXX	1.Banking & Insurance OR 2.Retail Management	Discipline Specific Elective [Any One]	4	-	4	-	20	80	100	3 Hrs
Total			24	-	24	-	120	480	600	--

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**B.C.A. V<sup>th</sup> Semester Syllabus (CBCS)**  
**Paper No. XXV – Management Accounting**

Theory – 80 Marks  
 Sessional – 20 Marks

		No. of Lectures
<b>Unit I</b>	<b>Introduction to Management Accounting:</b> Meaning, Definition, Features, Scope, Importance and Functions of Management Account. Differences between Management Accounting, Financial Accounting and Cost Accounting. Advantages and Limitations of Management Account. (Theory only)	10
<b>Unit II</b>	<b>Analysis and Interpretation of Financial Statements:</b> Meaning, Definition, Objectives, Scope of Financial Statements. Financial Statement Analysis, Tools of Financial Statements Analysis - Comparative financial statement, Common size financial statement, Trend Analysis. (Theory only)	08
<b>Unit III</b>	<b>Ratio Analysis:</b> Meaning, Advantages, Limitations, and Classification of ratios. Gross Profit Ratio, Net Profit Ratio, Return on Capital Employed Ratio, Inventory Turnover Ratio, Debtors & Credit Turnover Ratio, Current Ratio, Liquid Ratio, Proprietary Ratio. (Numeric only)	14
<b>Unit IV</b>	<b>Fund Flow Statement:</b> Meaning, Uses, Limitations, Sources and uses of funds. Funds from operations, Statement showing changes in working capital, Funds Flow Statement (Only in statement form), Preparation of necessary ledger accounts. (Numeric only)	14
<b>Unit V</b>	<b>Cash Flow Statement</b> Cash Flow Statement as per revised accounting standard -3 in Statement Form (Numeric only) Practical: 20 Marks (to be conducted by the department in each college as per convenience) Sessional Work: 20 Marks (Based on Unit II, III and IV) 1. To Collect the Financial Statements of Companies published in News Papers (05 Companies). 2. Calculate Profitability and Financial Ratios (One case). 3. Prepare Statement of Changes in Working Capital and Funds Flow Statement (One Case) i. 10 Marks for above mentioned work. ii. 10 Marks for Group Discussion and Seminar	14
	<b>Reference Books :</b> 1. Dr. S.N. Maheshwari – Principles of Management Accounting, Sultan Chand & Sons, Delhi 2. Prof. A.P. Rao – Management Accounting – Everest Publishing House, New Delhi 3. Khan M.Y. & Jain P.K. - Management Accounting Tata McGraw-Hill Education 4. Dr. Jitendra Ahirrao - Management Accounting – Kailas Publications Aurangabad. 5. Dr. V.R. Nagori & Dr. Sanjay Agrawal - Management Accounting – Chinmay Publications Aurangabad.	

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Unit I	Introduction To DBMS: Database Management System (DBMS) and Data Models. Introduction to Basic Database, Advantages of DBMS, Exploring Relational DBMS, Understanding Client and Server, Introduction to TSQL (Transact-Structured Query Language), History and Features of TSQL, Types Of TSQL Commands	12
Unit II	Introduction to SQL Server: Advantages and Drawbacks of SQL Server, Comparison between SQL Server and Oracle, Installation steps of Server, Connecting to Server, Server Type, Server Name, Authentication Modes, SQL Server Authentication Mode, Windows Authentication Mode, Login and Password, SQL Server Management Studio and Tools in Management Studio, Object Explorer, Object Explorer Details, Query Editor	12
Unit III	Transaction Management: Transaction Concepts, Begin Transaction, Commit Transaction, Rollback Transaction, Save Transaction, Role of Log File in Transaction Management, Implicit Transaction, Schedules.	12
Unit IV	Concurrency Control : Introduction Concurrency Control, Need for Concurrency, Locking Protocols, Transaction Recovery, Save Points Isolation Levels, SQL Facilities for Concurrency and Recovery.	12
Unit V	File Structure and Indexing : Operations on files, File of Unordered and ordered records, overview of File organizations, Indexing structures for files (Primary Index, Secondary Index, Clustering Index), Multilevel Indexing using B and B+ trees	12
<b>Practical's U/A : 20 Marks</b>		

1. Test/ Tutorial : 10 Marks
2. Oral / Writing of Algorithms in Journal / File : 10 Marks

**Reference Books :**

1. A Silberschatz, H Korth, S Sudarshan, "Database System and Concepts", fifth Edition McGraw-Hill.
2. R. Elmasri, S.B. Navathe, Fundamentals of Database Systems 6th Edition, Pearson Education, 2010.
3. Rob, Coronel, "Database Systems", Seventh Edition, Cengage Learning
4. C.J.Date, A.Kannan, S.Swamynathan, —An Introduction to Database SystemsI, Eighth Edition, Pearson Education, 2006.
5. Raghu Ramakrishnan, —Database Management Systems I, Fourth Edition, McGraw-Hill
6. G.K.Gupta, Database Management SystemsI", Tata McGraw Hill
7. Database Systems- A practical approach to Design, Implementation and Management by Thomos Connolly, Carolyn Begg, 3rd Edition, Pearson Education.

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B.C.A. V<sup>th</sup> Semester Syllabus (CBCS)  
Paper No. XXVII – VB

Total - 100 marks

Visual Basic

Theory – 80 Marks  
Sessional – 20 Marks

		No. of Lectures
Unit I	<b>Introduction to Visual Basic :</b> Introduction, Integrated Development Environment Overview, Introduction Graphical User Interface (GUI), Programming Language (Procedural, Object Oriented, Event Driven), How to use VB, edition, installation	10
Unit II	<b>Introduction to Visual Basic Programming:</b> Introduction, Visual Programming and Event-Driven Programming, A Simple Program: Printing a Line of Text on the Form, Variables, Variables Public, Private, Static, Constants, Data Types, Naming, rules/conventions, Constants, Named & intrinsic, Declaring variables, Scope variables, Val Function, Arithmetic Operations, Formatting Data. Branching and Looping Statement: If, Select Case, Iterations :While, For, Until	12
Unit III	<b>Arrays and Procedures, Functions :</b> Types of array, control array, Built in and user defined function OOPs in VB : Classes, creating a new Class, Creating a new object using a class, choosing when to create New Objects, The Initialize & Terminate events, Inheritance. <b>Exception handling:</b> Introduction, When Error Handling Should be Used, A Simple Error-Handling Example: Divide by Zero, Nested on Error Statements, Error Object, and Resume Statement. Event handling: Mouse handling	12
Unit IV	<b>Basic Graphical User Interface Concepts:</b> Introduction to forms and Controls: Introduction, Creating , adding, removing Forms in project, Hide, Show Method, Load, Unload Statement, Me Keyword, Referring to Objects on a Different Forms. Adding controls on form Working with Properties and Methods of each Controls (Text Box Control, MaslcEdit Control, Combo Box Control, List Box Control, Scrollbars, Slider Control, Menus, Pop-Up Menus, Function MsgBox), Creating an application <b>MENU :</b> Creating a menu system, Creating and accessing pop-up menu, Modifying menus at runtime, adding menu items at run-time, data access methods, creating, reading and writing text files	14
Unit V	Data Control , Connectivity with SQL server , Operations of database through coding , ADO Data Control , Advantages of ADODC over DC , Studying the properties and Methods of ADODC , Connectivity with SQL server ,Report Generation , Developing ADO application through ADODC and coding , Report Generation	12
	Sessional Works : 20 Marks • College can take decision accordingly as per their convenience.	
	Reference Books: 1. Mastering Visual Basic 2. Visual Basic Black Book	

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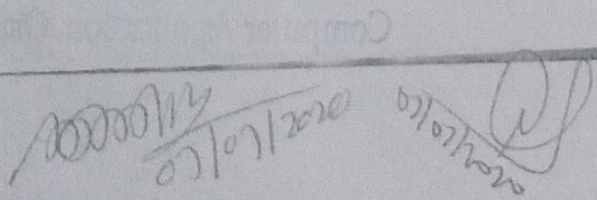
**B.C.A. V<sup>th</sup> Semester Syllabus (CBCS)**  
**Paper No. XXVIII – Organizational Behavior**

*Total - 100 marks*

Theory – 80 Marks  
 Sessional – 20 Marks

		No. of Lectures
<b>Unit I</b>	<b>Evolution of Management thought:</b> Classical School to Contingency School. Contribution of Management thinkers and proponents: Fredrick Taylor, Max Weber, Henri Fayol, Frank and Lillian Gilbreth, Henry Gantt, Elton Mayo and others. OB Studies and Experiments: Classical Conditioning Theory, Hawthorne Studies and others.	12
<b>Unit II</b>	<b>Individual Dynamics – I</b> Personality: Conceptualization, Discussions on Type vs. Trait Theory and Nature vs. Nurture Type Theory: Freud's Theory of Psychosocial Stages, Carl Jung's Theory of Personality, Theory X vs. Theory Y and others. Trait Theory: Myer-Brigg's Trait Indicator, Big-Five Personality Traits and others.	12
<b>Unit III</b>	<b>Individual Dynamics - II</b> Theories of Motivation: Maslow's Hierarchy of Needs Theory, Herzberg's Two-Factor Theory, McClelland Human Motivation Theory, Alderfer's ERG Theory, Vroom's Expectancy Theory, Adam's Equity Theory, Skinner's Reinforcement Theory, Locke's Goal Setting Theory, Deci and Ryan's Cognitive Evaluation Theory	12
<b>Unit IV</b>	<b>Group Dynamics</b> Communication: Concept, Process, Communication channels, Barriers and Implications for Managers, Group Development: Definition, Foundations of Group Behavior, Bruce Tuckman's Stages of Development, Group Properties (roles, norms, status, size and cohesiveness) Decision Making: Group vs. Individual Decision Making, Group decision making techniques, Stages and Process of Decision Making	14
<b>Unit V</b>	<b>Organizational System</b> Organizational Structures: Concept, Design Types, Chain of Command, Span of Control, Centralization vs. Decentralization. Stress Management: Concept of Work Stress, Emotional Intelligence, and Measures for managing stress, Managing Stress related to Business & Employment in Post COVID-19 Era. Sessional Works : 20 Marks 1. Group Discussion : 10 Marks 2. Test / Tutorial : 10 Marks	10
<b>Reference Books:</b> 1. Robbins, S., Judge, T., & Vohra, N. (2016). Organizational Behavior. (16e, Ed.) Mullins, L. J. (2010). Management and Organizational Behaviour. (9th, Ed.) 2. Bratton, J. (2016). Introduction to Work and Organizational Behaviour. (3rd, Ed.) 3. Butler, M., & Rose, E. (Eds.). (n.d.). Introduction to Organisational Behaviour. 4. Aswathappa, K. (2017). Organisational Behaviour. (12th, Ed.) 5. Rollinson, D. (2008). Organisational Behaviour and Analysis: An Integrated Approach. (4th, Ed.)		

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**B.C.A. V<sup>th</sup> Semester Syllabus (CBCS)**  
**Paper No. XXIX – Software Engineering**

*Total - 100 Marks*

**Theory – 80 Marks**  
**Sessional – 20 Marks**

		<b>No. of Lectures</b>
<b>Unit I</b>	<b>Overview of systems Analysis and design System concepts :</b> Types of systems: Information System, System Development Life cycle, Role & Skills of system Analyst, Models: 1) Waterfall 2) Prototyping 3) Spiral ( including WIN-WIN Spiral) 4) RAD 5) Group Based Approach: JAD 6) Object Oriented methodology	<b>12</b>
<b>Unit II</b>	<b>A) Current trends in Software Engineering :</b> 1) Software Engineering for projects & products. 2) Introduction to Web Engineering and Agile process <b>B) Information requirement Analysis:</b> 1) Decision Analysis Tools: Decision Tree, Decision Table, Structured English 2) Functional Decomposition Diagram 3) Process modeling with physical and logical Data Flow Diagrams 4) Data Dictionary Case Studies on Decision analysis tools , FDDs, DFDs should be covered	<b>14</b>
<b>Unit III</b>	<b>Software Analysis :</b> Requirements Engineering; Feasibility Study : economical, operational, social, technical; Requirements Elicitation; Requirements Analysis; Requirements Validation and Management. Size Estimation; Cost Estimation Models; COCOMO, COCOMO II; Software Risk Management. <b>Activities in Requirements Determination :</b> a) Requirements Anticipation b) Requirements Investigation c) Requirements Specifications	<b>14</b>
<b>Unit IV</b>	<b>Software requirement Specification (SRS) :</b> 1] Structure and contents of the requirements specification analysis modeling, types of requirements - functional and non-functional , Quality criteria, requirements definition ,SRS format, Fundamental problems in defining requirements. 2] Structure and standards followed for SRS. 3] characteristics of good SRS – Unambiguous, complete, verifiable, consistent, modifiable, traceable, usable during maintenance	<b>12</b>
<b>Unit V</b>	<b>Maintenance :</b> Types of Maintenance, Maintenance Cost, Reverse Engineering, Introduction to legacy systems, <b>Documentation :</b> Types, Role of documentation maintenance	<b>10</b>
	<b>SESSIONAL WORK: 20 Marks</b> College can take decision as per their convenience.	
	<b>Reference Books :</b> 1. System Analysis and Design by Jalote 2. Software Engineering by Sommerville 3. Software Engineering - W S Jawadekar 4. System Analysis & Design methods – Whiten, Bentley 5. System Analysis & Design – Elias Awad 6. Object Oriented Modelling& Design – James Rumbaugh 7. Analysis & Design of Information System – James Senn 8. Analysis & Design of Information System – V. Rajaraman 9. Software Engineering Concepts-Richard Fairley	

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**B.C.A. V<sup>th</sup> Semester Syllabus (CBCS)**  
**Paper No. XXX – Banking & Insurance (Elective)**

*Total - 100 Marks*  
**Theory – 80 Marks**  
**Sessional – 20 Marks**

		No. of Lectures
<b>Unit I</b>	<b>Banking in India :</b> Meaning and definition of Bank, Banking and Banking Company. Commercial Banks: Introduction, Structure of Commercial Banks in India, functions, credit creation by commercial Banks, Principle of liquidity and profitability. <b>Co-operative Banks:</b> Introduction, Structure, organization and management, progress and problems. <b>Regional Rural Banks:</b> Introduction, objectives, organization and management, progress and problems.	10
<b>Unit II</b>	<b>Reserve Bank of India</b> The Reserve Bank of India: Introduction, organization and management General functions, regulation of money and credit supply, credit control measures	08
<b>Unit III</b>	<b>Banker and Customer</b> The relationship between Banker and Customer, general relationship — special relationship, statutory obligation to honor Cheque - Bankers lien. Duty to maintain secrecy of customers' account, right to claim incidental charges, right to charge compound interest, Banking Ombudsman.	10
<b>Unit IV</b>	<b>Account of Customers:</b> i) General precautions for opening accounts, KYC (Know Your Customer), Types of deposit accounts, fixed deposit receipt, nomination, TDS. . ii) Special types of customers, minor, married women, Lunatic; Partnership, Joint stock companies unincorporated bodies. Executor and Administrators. Trusts Accounts, Joint Accounts. iii) Principles of sound lending, secured and unsecured advances, Forms of advances, iv) Modes of charging security: Lien, Pledge, Mortgage, Assignment, Hypothecation,	10
<b>Unit V</b>	<b>Electronic Banking (E-Banking):</b> Introduction, Traditional banking v/s E-Banking, electronic delivery channels (ATMs, Smart cards, mobile banking, internet banking.) t-banking transaction, Truncated cheques and electronic cheques, MCgh product, Advantages of Banking, constraints in E-Banking, security measures, RTGS & NEFT. E-Banking During & Post COVID-19 Pandemic.	10
<b>Unit VI</b>	<b>Insurance :</b> Concept and importance of Insurance, Principles of Insurance, Growth & Development of Indian Insurance Industry – Regulations of Insurance Business and The Emerging Scenario – Introduction to Life & General Insurance – Life Insurance: Features of Life Insurance – Essentials of Life Insurance Contract – Kinds of Insurance Policies - Premium determination – Life Policy Conditions, Risk and Insurance.	12
<b>Sessional Marks : 20 Marks</b> 1. Test / Tutorial : 10 Marks 2. Preparing Instruments of Bank/ Insurance as per convenience. : 10 Marks		
<b>References Books :</b> 1 Cordon & Natarajan, Banking Law and Practice 2008, Himalaya Publishing Mumbai. 2 Insurance Laws and Practices, Excel Books Private Limited, A-45, New Delhi. 3 KC. Shekher: Banking Theory & practice, Vani Educational Books, Sahibabad (U.P). 4 Read, E.W., Commercial Bank Management, Harper and Row Publisher New York.		

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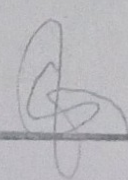
**B.C.A. V<sup>th</sup> Semester Syllabus (CBCS)**  
**Paper No. XXX – Retail Management (Elective)**

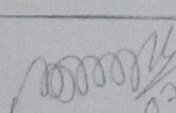
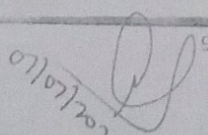
*Total - 100 marks*

Theory – 80 Marks  
 Sessional – 20 Marks

		No. of Lectures
Unit V	<b>Introduction to Retailing:</b> Meaning, Definition, Scope of Retailing, Role and Functions of retailers, Advantages of Retailing, Organized and Unorganized Retailing, Indian Retail Scenario Vs. Global Retail Scenario, Role of Retail in Nation's Economy	12
Unit V	<b>Theories and Formats of Retailing:</b> 1. Environmental Theory 2. Cyclical Theory 3. Conflictual Theory, Formats of Retailing Store based, Non store and Service retailing	12
Unit V	<b>Retailing Planning and Development:</b> Understanding the Retail Customer Marketing Research for Retailing, Strategic Retail Planning Process, - Retail Strategies: Growth Strategies Positioning a retail outlet; developing a retail brand strategy, expansion strategy, pricing strategy, Retail Location and Site Selection.	12
Unit V	<b>Merchandise Management:</b> Meaning of Merchandising, Factors influencing Merchandising, Basics & Types of Retail Merchandising, Concept & Process of merchandise Planning, Methods of Merchandise Procurement, Retail Pricing and Evaluating.	12
Unit V	<b>Retail HRM &amp; New Trends in Retailing:</b> Identifying Manpower requirements, Recruitment, Selection & Training, Emerging Trends in Retailing in India, Technology in Retailing, Non store retailing (e-retailing) - The Impact of Information Technology in retailing, Legal aspects in retailing, Social issues in retailing, Ethical issues in retailing, Innovative Retail During & Post COVID-19 Pandemic.	12
<b>Sessional : 20 Marks</b> 1. Test / Tutorial : 10 Marks 2. Preparing Market Research Plan of Product : 10 Marks <b>Reference Books :</b> 1. Retailing Management : Michael Levy and Barton Weitz, TMGH, 5th Edition 2. Retail Management: Swapna Pradhan, TTMGH 3. Retail Management – Chetan Bajaj; Rajnish Tuli; Nidhi Varma - Oxford ks 4. Fundamentals of Retailing: K V S Madaan, McGraw Hill 5. Retail Marketing Management: David Gilbert, Pearson Publication 6. Retail Management : Arif Sheikh, Himalaya Publishing		

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