



माखनलाल चतुर्वेदी राष्ट्रीय पत्रकारिता एवं संचार विश्वविद्यालय
(मध्य प्रदेश विधानसभा के अधिनियम क्रमांक 15, 1990 द्वारा स्थापित)
MAKHANLAL CHATURVEDI NATIONAL UNIVERSITY OF JOURNALISM AND COMMUNICATION
(Setup by Act No.15, 1990 of M.P. Legislative Assembly)

क्र./अका./2024/ 2088

भोपाल, दिनांक 05/02/2024

अधिसूचना

विश्वविद्यालय द्वारा अकादमिक सत्र 2020-21 से संचालित CBCS आधारित पाठ्यक्रम बी.सी.ए. के षष्ठम सेमेस्टर में निम्नानुसार संशोधन किया जाता है।

Subject Code	Subject Name
6BCA1	Standard Mathematics
6BCA2 (A)	Computerrized Accounting with Tally *
	OR
6BCA2 (B)	Cloud Computing *
6BCA3	Project Work
6BCA4	Social Media Marketing *
6BCA5	Open Elective – 6
6BCA6	Computer Lab-6 is Based on above *Subjects (+Self Study Lab)

उक्त बी.सी.ए. पाठ्यक्रम का शेष मिलेवस यथावत रहेगा।

(वरिष्ठ स्तर में अनुमोदित)

आदेशानुसार

(प्रो. (डॉ.) अविनाश वाजपेयी)
प्रभारी कुलसचिव

पृ./क्र./अका./2024/ 2089

भोपाल, दिनांक 05/02/2024

प्रतिनिधि -

1. निज सचिव कुलपति, निज सहायक कुलाधिसचिव/कुलसचिव को सूचनार्थ।
2. समस्त विभागाध्यक्ष/परिसर प्रभारी खंडवा/रीवा/दतिया को सूचनार्थ।
3. निदेशक, संवर्द्ध अध्ययन संस्थाओं को सूचनार्थ।
4. परीक्षा नियंत्रक को सूचनार्थ।
5. आदेश पुस्तिका।

(प्रो. (डॉ.) अविनाश वाजपेयी)
प्रभारी कुलसचिव

OLD Scheme for BCA(CBCS) VI SEM-2020

Semester –VI

Subject Code	Subject Name	L	T	P	Load	Theory Marks	Internal Marks	Practical Marks	Total Marks
		Credits/Hours							
6BCA1	Cloud Computing*	4/4	0	2/4	6/8	80	20	0	100
6BCA2	Computerized Accounting with Tally *	4/4	0	2/4	6/8	80	20	0	100
6BCA3	Project Work	0	2/2	4/8	6/10	0	20	80	100
6BCA4	Social Media Marketing*	2/2	0	1/2	¾	40	10	0	50
6BCA5	Open Elective –6	2/2	1/1	0	3/3	40	10	0	50
6BCA6	Computer Lab-6 is based on above * subjects (+Self Study Lab)	-	-	+0/2	+0/2	0	20	80	100
Semester Totals		12/12	3/3	9/20	24/35	240	100	160	500

NEW Scheme for BCA(CBCS) VI SEM -2020

SEMESTER-VI

Subject Code	Subject Name	L	T	P	Load	Theory Marks	Internal Marks	Practical Marks	Total Marks
		Credits/Hours							
6BCA1	Standard Mathematics	4/4	1/1	0	5/5	80	20	0	100
6BCA2(A)	Computerized Accounting with Tally *	4/4	0	2/4	6/8	80	20	0	100
6BCA2(B)	OR Cloud Computing*	4/4	0	2/4	6/8	80	20	0	100
6BCA3	Project Work	0	2/2	4/8	6/10	0	20	80	100
6BCA4	Social Media Marketing*	2/2	0	1/2	¾	40	10	0	50
6BCA5	Open Elective –6	2/2	1/1	0	3/3	40	10	0	50
6BCA6	Computer Lab-6 is based on above * subjects (+Self Study Lab)	-	-	+0/2	+0/2	0	20	80	100
		12/12	4/4	8/18	24/35	320	100	80	500

SEMESTER VI
6BCA1 -Standard Mathematics

Subject Code	Subject Name	L	T	P	Load	Theory Marks	Internal Marks	Practical Marks	Total Marks
		Credits/Hours							
6BCA1	Standard Mathematics	4/4	1/1	0	5/5	80	20	0	100

Objectives

- This course is aimed to cover a variety of different problems in Graph Theory.
- Solve basic trigonometric equations.
- Solve basic vector function
- Solve basic Coordinate Geometry functions

Course Outcomes:

- Understand the application of various type of graphs in real life problem.
- Understand the applications of vector algebra.
- Understand and solve trigonometric equations.
- Understand basic vector functions and applications
- Understand Coordinate Geometry and its applications

Unit I : Trigonometry : Heights and distances, Solution of triangles ,Simple identities , General solutions of trigonometric equations.

UNIT II : Basic definitions of graphs and multigraphs, Matrix representation of graphs, adjacency matrices, Paths, cycles, Vertex degrees, and counting, incidence and degree, walks, paths, circuits, Connectedness, Eulerian and Hamiltonian graphs, Trees, basic properties of trees, Binary trees, Spanning and Minimal spanning trees, Connectivity and Separability, fundamental circuits, and cut sets, Isomorphism of graphs: 1 and 2-isomorphism.

UNIT III : Vectors, Scalar and vector products and their applications to simple geometrical problems, Position Vector, Addition and subtraction of vectors , Algebra , Fundamental operations in algebra ,Arithmetic and Geometric progressions , Simultaneous linear /quadratic equations ,Determinants and matrices

UNIT IV : Coordinate Geometry, Equations of a circle, Equation of a line , Rectangular Cartesian coordinates , Distance formulae, Intersection of lines, Pair of straight lines, Set Theory , Concept of sets – Union, Intersection, Cardinality, Elementary counting, Permutations and combinations

UNIT V : Probability and Statistics , Basic concepts of probability theory , Averages , Frequency distributions ,Dependent and independent events , Measures of central tendencies.

Books and Reference

1. Malik and M. K. Sen: Discrete Mathematics, Cengage Learning India Pvt. Ltd.
2. Rosen Kenneth: Discrete mathematics and its applications. McGraw hill- New Delhi.
3. Basics of Mathematic by Dr. R.D. Sharma
4. Remedial Mathematic by Dr. D.C. Agarwal
5. Mathematic By R. S. Agarwal

COs	ProgramOutcomes(POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
1	3	2	1	1			1			1		1
2	3	2	2							1		1
3	3	2	2				1			1		1
4	3	2	2	2	2							1

5	3	3	3	2	2		2				2	1
6	3	2	2	2							1	1

6BCA2(A)-COMPUTERIZED ACCOUNTING WITH TALLY

L	T	P	C	Theory	Internal	Practical	Total Marks
Credits/Hours							
4/4	0	2/4	6/8	80	20	0	100

Course Objectives: Students will try to learn:

- Basics of Tally Accounting software.
- Learn to create company, enter accounting voucher entries and create various type of books for the accounting purpose.
- Learn to do reconcile bank statement, do accrual adjustments,
- Learn to prepare and print financial statements, etc.in Tally Accounting software.

Course Outcomes: Students will able to:

- Explain basics of Tally Accounting processes.
- Define key terms related to Tally Accounting software.
- Create Company and enter accounting voucher entries and create various type of books in the software.
- Do the reconcile bank statement and perform other accrual adjustments
- Prepare and print financial statements, etc.in Tally Accounting software

Unit-wise Syllabus

UNIT - I

Tally configuration & INI setup, data directory & folders configuration, single & multiple user, Tally screen components, mouse / keyboard conventions & key, combinations, switching between screen areas, quitting Tally. Maintaining company data, basic company details, create/alter/select/load/close a company, chart of accounts, company features, configuration.

UNIT-II

Create, Alter & Display Groups and Ledgers, All accounting voucher types and transactions, Create and Alter new Voucher type, Item and Account Invoice transactions, Excise Invoice, Export Invoice, Transactions using Bill-wise details Create, Alter & Display Cost Centre and Cost Categories, Cost centre & Cost Category allocation in voucher entry, Creating Cost centre Class, Invoice entry in a Class situation, Create, Alter & Delete Foreign Currencies, Voucher entry using foreign currency, Bank Reconciliation, Interest calculations using simple & advance parameters, Interest calculations on outstanding balances & on invoices, Use of voucher class, adjustment of interest, Creation of voucher class, Invoice entry in a class situation.

UNIT-III

Create, Alter & Delete Budgets for groups, ledgers & cost centres, Defining credit limit & credit period, Display Budgets & variances, Create, Alter & Delete a scenario. Enabling Job Costing in Tally, Master creation & configuration for Job costing, Creation of Voucher type & Voucher class for Stock Transactions, Creation of Transfer journal for transfer of stock between godowns, Consumption journal Transactions, payment voucher, Godown summary

Report, Job Work Analysis, Material consumption summary. Reports like balance sheet, Profit & Loss account, Ratio analysis, Trial Balance. Accounts books like cash/bank book, All ledgers, Group summary & vouchers, Sales, purchase & journal registers, Cost centre & category summary, Cost centre breakup, ledger & group breakup, outstanding receivables & payables, interest receivable & payable, Statistics, Cash & Fundflow, Daybook, List of Accounts, Reversing Journals, optional vouchers, post-dated vouchers.

UNIT-IV

Create, Alter & Display Stock Groups and Stock Items, Stock item behavior using costing and market valuation method, other behavior like treating all sales as new manufacture, treating all purchases as consumed, treating all rejections inward as scrap, ignoring negative balances, Treating difference due to physical counting, Create, Alter & Display Stock categories, Create, Alter, Display simple & compound units of measures, Stock items using alternate units, Defining standard cost & selling price, Defining Rate of duty, Defining MRP, Create, Alter & Display Godowns, Allocation of items to the Godowns, All inventory voucher types and transactions, Inventory details in accounting vouchers, Defining re-order level, Transactions using tracking numbers, Use of batch-wise details in voucher, Additional cost details in vouchers, Creating Bill of material, Cost estimation, Creating Price list & defining Price levels, invoice using Price list, Zero valued entries, Transactions in case of Different actual & billed quantities. Reports like Stock summary, Inventory books like Stock item, Group summary, Stock transfers, Physical stock register, Movement analysis, Stock group & item analysis, stock category analysis, Ageing analysis, Sales order & Purchase order book, Statement of inventory related to Godowns, categories, stock query, Reorder status, Purchase & Sales order summary, Purchase & Sales bill pending, Exception reports like negative stock & ledger, overdue receivables & payables, memorandum vouchers, optional vouchers, post-dated vouchers, reversing journals.

UNIT-V

Cheque Printing, Common printing options, Different printing formats, Multi-Account printing, Dynamic- Report specific options. Creating Group Company, Use of Tally vault, Using Security control & defining different security levels, use of Tally Audit. Back-up & Restore, Splitting company data, Export & import of Data, ODBC compliance, use of E-mail, Internet publishing, Upload, web browser & online help, Re-write data.

References:

- Implementing Tally 6.3 by Nadhani; BPB Publications, ISBN: 817656494X
- BPB Tally 6.3 by BPB Editorial Board (Hindi) BPB Publications, ISBN 81-7656-594-6

COs	Program Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
1	3	3	3	3	1	3	3	1	2	2	2	2
2	3	2	2	1	1	2	1	1	1	1	2	2
3	2	1		1	1		1	1	3	2	1	2

6BCA2(B)–CLOUDCOMPUTING

L	T	P	C	Theory	Internal	Practical	Total Marks
Credits/Hours							
4/4	0	2/4	6/8	80	20	0	100

Course Objectives:

- Basics of cloud computing.
- Key concepts of virtualization.
- Different Cloud Computing services
- Cloud Implementation and its tools
- Key components of Amazon Web Services
- Cloud Back up and solutions

Course Outcomes:

- Define Cloud Computing and memorize the different Cloud service and deployment models
- Describe importance of virtualization along with their technologies.
- Use and Examine different cloud computing services
- Analyze the components of Google Cloud platform
- Describe the key components of Amazon web Service
- Design & develop back up strategies for cloud data based on features.

Unit-wise Syllabus

Unit - I

Introduction to Computing Paradigms: High-Performance Computing, Parallel Computing, Distributed Computing, Cluster Computing, Grid Computing, Cloud Computing, Bio-computing, Mobile Computing, Quantum Computing, Optical Computing, Nano-computing, Network Computing. Cloud Computing Fundamentals: Motivation, Need, Definition of Cloud Computing. Principles of Cloud computing: Five Essential Characteristics, Four Cloud Deployment Models, Three Service Offering Models, Cloud Ecosystem, Requirements for Cloud Services. Cloud Computing Architecture: cloud Architecture, User/Client Layer, Network Layer, Cloud Management Layer, Hardware Resource Layer,, Network Connectivity in Cloud Computing, Public Cloud Access Networking, Private Cloud Access Networking.

UNIT-II

Cloud Computing Management: Cloud Application, Benefits and Drawbacks Applications on the Cloud, Managing the Cloud, Managing the Cloud Infrastructure, Managing the Cloud Application, Migrating Application to Cloud, Cloud Deployment Models: Private Cloud, Outsourced Private Cloud, Community Cloud, On-Premise Community Cloud, Hybrid Cloud. Cloud Service Models: Infrastructure as a Service, :Platform as a Service, Software as a Service, Introduction to Open Source Tools for IaaS, Paas & SaaS : Apache.

UNIT-III

Technological Drivers for Cloud Computing: SOA and Cloud, SOA and SOC, Benefits of SOA, Multi-core Technology: Multi-core Processors and VM Scalability, Memory and Storage Technologies, Cloud Storage Requirements, Networking Technologies, Web 2.0 : Characteristics, Difference from Web 1.0, Applications, Social Media, Marketing, Education. Web 3.0:Components ,Semantic Web, Web Services, Characteristics, Convergence of Cloud and Web 4.0, Connecting Information: Facebook. Agile Software

6BCA3-PROJECTWORK

L	T	P	C	Theory	Internal	Practical	Total Marks
Credits/Hours							
0	2/2	4/8	6/10	80	20	0	100

All the candidates of BCA are required to execute a Project and submit its Project-Report. These projects are to be carried out on real life problems. The detailed guidelines related to project work is given in the last section in the curricula. Please read carefully and make your project accordingly.

6BCA4SOCIALMEDIAMARKETING

L	T	P	C	Theory	Internal	Practical	Total Marks
Credits/Hours							
2/2	0	1/2	3/4	40	10	0	50

Course Objectives:

- To understand about the Social Media and its importance for marketing success.
- To understand the process of integration of different digital media and create marketing content.
- To understand planning & control activities to effectively deliver goods and services.
- To learn principles of marketing, economics, accounting, operations management, and finance.
- To develop and implement social media strategies for B2B and B2C marketing for penetration, growth, and development.

Course Outcomes:

- Identify importance of the social media marketing for marketing success
- Demonstrate to create a blog and a social media marketing plan for a new product or service.
- Explain about Social Media, its various channels of operations, and its role in marketing strategy
- Use principles of consumer and social psychology to develop social media content and campaigns that engage consumers
- Draw on knowledge about word-of-mouth marketing to develop effective approaches for propagating ideas, messages, products, and behaviors across social networks
- Measure the impact of a social media campaign in terms of a specific marketing objective.

Unit-Wise Syllabus

UNIT-I

Digital marketing overview-what is Digital Marketing , traditional marketing vs. Digital Marketing, understanding traffic, categorization of digital marketing for the business, Legal and Ethical issues, search engine optimization (SEO)- on page optimization, off page optimization. Goals: learn how to use dozens of proven digital marketing strategies.

UNIT-II

Social Media overview-Social Media features, social media tools and platforms, Social Media monitoring, Hash tag, viral content. **Social media marketing** –SMM vs. SMO benefits of using SMM social media strategy, Email marketing,

UNIT-III

Social media marketing - Facebook marketing-profiles and pages, business categories, Facebook page custom URL, invite page likes, scheduling posts, Facebook events, Facebook insights reports, competitor's Facebook page, connect with twitter. Facebook ad campaigns-ad objective, performance matrix, ad components, Facebook ad structure, Facebook insights, Facebook page promotion, video promotion. Goals: develop a Facebook campaign for the product concept.

UNIT-IV

Google Ads-Introduction to Ad words, keyword planner, Pay-Per-Click (PPC), PPC terminology, PPC AD on Google Facebook. Goals: Use social media to keep abreast of the latest trends in your industry.

UNIT-V

Content Marketing and security, Security for SMM, Social Media Privacy, Secure Payments and Website Encryption, Cookies, VPN, Digital Certificate, E-Governance, E-wallet, . Goals: Understand security issues related to social media and digital marketing

Reference Books

- Ryan Deiss, Russ Henneberry (2017) Digital Marketing for Dummies, John Wiley & Sons.
- Ahuja Vandana (2015) Digital Marketing, Oxford University Press.
- Ira Kaufman, Chris Horton (2014) Digital Marketing: Integrating Strategy and Tactics with Values, A Guidebook for Executives, Managers, and Students, Routledge,
- Matt Chiera (2018) Digital Marketers Sound Off: Tips, Tactics, Tools, and Predictions from 101 Digital Marketing Specialists, Matt Chiera,
- Puneet Bhatia (2017) Fundamentals of Digital Marketing, Pearson India, ISBN 9352861418, 9789352861415
- Dan Zarrella (2011) The Social Media Marketing Book, O'Reilly Media.
- Krista Neher (2013) Visual Social Media Marketing: Harnessing Images, Instagram, Infographics and Pinterest to Grow Your Business Online, Boot Camp Digital.

COs	Program Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
1	3	2	2	3	3	2	2	1	1	1	2	2
2	2	3	1	3	3	2	1	1	2	2	1	2
3	1	2	2	3	1	2	2	1	1	1	2	2
4	2	1	3	1	3	2	2	1	2	1	1	2
5	1	2	2	3	3	1	2	1	1	1	2	2
6	2	3	1	1	3	2	2	1	2	2	1	2

6BCA5 OPENELECTIVE –6

6BCA5(A)-VBA PROGRAMMING

L	T	P	C	Theory	Internal	Practical	Total Marks
Credits/Hours							
2/2	1/1	0	3/3	40	10	0	50

Course Objectives:

- To Know the powers of Visual Basic for Applications (VBA, Macros)
- Understand the use of automate common and repetitive key strokes
- Build powerful automated business tools quickly using VBA
- Speed up your production and reduce the time you have to spend staring at an electronic spreadsheet each day.

Course Outcomes:

- Create simple macros using the macro recorder and run them from shortcuts or buttons on the ribbon
- Use the VBA Editor to navigate projects and explore object properties. Create, copy and import/export modules
- Use the VBA Editor to navigate projects and explore object properties. Create, copy and import/export modules
- Explore a variety of ways your code can manipulate data within cells, create and navigate around worksheets and workbooks
- Using decision making and looping structures to control the way your program works

Unit-Wise syllabus

UNIT - I

Introduction to VBA - introduction to excel, introduction to programming, VBA overview and the IDE, quick review of macros, working with macros, how to use visual basic editor (programming environment), advantages of VBA. Understanding the VBA editor, module & procedures - the visual basic editor, parts of the VBA editor, modules and macros, about VBA forms, sub procedures & modules, creating forms, using controls and their properties, running VBA forms in excel. VBA syntax & grammar - objects – the grammar, using properties and methods, understanding parameters, the object browser, understanding object hierarchy, tools for better coding, moving to other cells, editing specific cells.

UNIT-II

Variables, arrays & constant - using the immediate window, gaining greater control through the immediate window, formatting cells, using variables, constants, object variables, dimensioning and usage of variables, displaying data and obtaining data from the user. Storing data in variables - how and when to declare variables, selecting data types, fixed and dynamic arrays, constants. Control Structure & program Flow - IF(ElseIf, Else), Select Case(), For Next Loop, For Each Loop(), Do Until Loop and Do While Loop, With, End With, Nesting Code.

UNIT-III

Building Procedures - Creating Sub and Function procedures, Calling procedures, Passing arguments to procedures, Building intuitive user interface - Communicating with the user through the message box, Gathering user information with the input box, Utilizing the File Dialog object and Dialogs collections, Creating Customized Dialog Boxes with User Form Objects - Command buttons, List and Combo boxes, Labels, Option buttons, Check boxes, Text boxes, Frames, Adding more functionality with advanced ActiveX control. Fonts & Backgrounds - Using Font Property in cells, Using Various Background Properties in Excel VBA, Creating a Counter, String Handling, Using Left, Right, Mid and Len Functions in VBA, Range Selection and Manipulation.

UNIT-IV

Objects & Collections – Workbook and Worksheet Object, Range Object and Cell Properties, Methods and Properties, Assigning Objects, Using Name Arguments. **Array** -What is Array & why use array, Declaring an Array, Sorting Data in Array, 2-Dimension Array, Dynamic Array, UBound, Storing Data in a range of an Array Elements, Using various array functions.

UNIT-V

Functions -using excel worksheet functions in VBA, VBA functions, user-defined functions, adding help to user defined functions, declaring variables in user defined functions, using ranges in user defined functions, creating and managing an add-in for user defined functions, **internet & excel** – copy hyperlinks and text from a web page to spreadsheet, **interaction with other office packages** -communicating with word and powerpoint using excel VBA. **Modifying menus & toolbars** -simplifying user interaction with the command bar object, adding and removing command bar control objects.

References:

- Duane Birnbaum, Microsoft Excel VBA Programming for the Absolute Beginner Second Edition, Thomson, Course Technology
- John Green, Stephen Bullen, Rob Bovey, Michael Alexander, Excel 2007 VBA Programmer's Reference, Wrox Publishers
- Dr. Liew Voon Kiong, Excel VBA Made Easy book

COs	Program Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
1	3	2	1	2	1	2	2	1	2	1	1	1
2	3	3	2	1	1	1	2	2	2	2	2	1
3	3	3	3	3	2	1	1	2	2	1	1	1
4	3	3	3	2	2	2	1	1	2	2	2	1

6BCA5(B)-VIDEOEDITINGWITHOPENSHOT

L	T	P	C	Theory	Internal	Practical	Total Marks
Credits/Hours							
2/2	1/1	0	3/3	40	10	0	50

Course Objectives:

- To learn principles of editing
- To acquire skill of video editing techniques using Openshot
- To gain theoretical knowledge of video editing
- To produce good quality edited video content for the Web.

Course Outcomes:

- Understand techniques of editing.
- Use Openshot video editing's of the ware applications.
- Demonstrate the theoretical and practical knowledge of video editing.
- Edit videos of different genres.
- Prepare a movie, collect digital video, and upload digital video on web.

Unit-Wise syllabus

UNIT-I

Introduction-OpenShot Video Editor, Features, System Requirements, License, Download and install openshot, Keyboard Shortcuts.

UNIT-II

Workspace and profiles-Main Toolbar-button to open, save, and export your video project. Timeline, Tracks & Layers, Profiles- Project Profile, Export Profile, Custom Profile.

UNIT-III

Working with Files- Files- Import Files, File Menu, Add File to Timeline, File Properties, Split Clip.

UNIT-IV

Clips-Cutting & Slicing, Preset Menu, Transform, Digital video effects, Adding text and titles Effects

UNIT- V

Transitions and Animation-Audio effects, audio mixing and editing, Animation, Key Frames, Bézier Presets for Animation, Import & Export.

References:

- Jesse Russell, Ronald Cohn "Openshot Video Editor" Publisher- "Book on Demand", 2012 ISBN 5512282816, 9785512282816

E-Resource

- <http://www.openshot.org/static/files/user-guide/introduction.html>

Cos	Program Outcomes (POs)											
	1	2	3	4	5	6	7	8	9	10	11	12
1	3	1	2	3			2		1	3	2	1
2	2	2	1	2			1		1	2	3	2
3	2	1	1	2			2		2	2	2	1
4	3	1	1	1		1	3	1	1	3	1	1
5	3	2	3	1	1	1	2		1	3	2	1

6BCA6COMPUTERLAB-6

L	T	P	C	Theory	Internal	Practical	Total Marks
Credits/Hours							
-	-	+0/2	+0/2	0	20	80	100

PRACTICALLISTONTALLY

PracticalAssignment-1

1. Create a Company as “Sagar Industries Ltd.”in Tally with inventory management.
2. Pass the following Entries:-
 - (i) Sagarstarted“SagarIndustriesLtd.”bybringingCapitalRs.3,00,000/-Cash.
 - (ii) HedepositedRs.1,00,000/-cash at ICICBank.
 - (iii) Hepaid electricity bill for Rs.1, 200/- by cash.
 - (iv) HewithdrawnRs.10,000/-cash for his personal use.
 - (v) HepurchasedthefollowingitemfromComputerLab.Ltd.oncreditwith4% Vat rate.
 - (a) Computer-10 Nos.- @20000/-each
 - (vi) He sold the following item to somnath Tradersincashwith4% Vatrate.
 - (a) Computer-5 Nos.- @27500/-each
 - (vii) HereceivedRs.6,000/-as commission from Rohit by cash.
 - (viii) Hepaid House Rent forRs.5, 000/-by cash.
 - (ix) HewithdrawnRs.25,000/-cash from ICICI Bank.
 - (x) HepurchasedfurnitureforRs.25, 000/-by cash for office use.
3. Show theTrial Balanceand BalanceSheetof “Sagar IndustriesLtd.”
4. Show theVat Computationre portof the above company.
5. Show the Cash Book &Bank Book of the company.
6. Show the DayBook.

PracticalAssignment-2

1. Jyoti Printers over took all the printing Expensesis of Rs. 1500/-
2. Underpacking Expense& from Hariom packinglmt.Rs.5000/-
3. Kashav&brother’shelpinfuelingofRs.300/-
4. Com. Openin Bankof India, anaccountwithRs.100,000./-
5. FromRamlal&son’s4000/-is to betaken of previous year.
6. UnderMedicalexpenseswepurchaseRs.750/-Medical from Mahima Medical.
7. OneNANOCarofRS.1,25,000/-fromTATA Moter’s.
8. From M/sR.K.Investment’swepurchaseshare’s ofSAMSUNG.ofRs.7500.
9. From Soni Brother’s Gold@35,000/-is purchased.
10. FromXYZ&son’sRs.5000/-is due of previous year.
11. PaymentisdonetoHariompackinglmt.ofRs.3500/-.
12. PaymenttoKulvinder&Son’sisdoneofRs.2700/-
13. Payment to TATA Moter’sisdone byD.D.Rs 1,25,000/-whichis1500/-bank commissionpaidbyus.
14. FromArjunLtd.7000/-is to betaken of previous year.
15. Payment to Soni Brother’shas done by cheque ofRs.35,000/-
16. From XYZ &son’s were received Rs. 5000/-
17. Payment to Jyoti Printer’shas beend one by cheque.
18. Payment to Hariom packing lmt. we paid his whole amount by cheque

PracticalAssignment-3Payment&ReceiptsVoucher

1. Com.hasopeningcashRs.100000/-
2. Mr.Rajendra is the owner of the company his opening capital Rs.2,00,000/-
3. Com. Has to received from previous year.{1}VIKASNAGAR-75,000/-{2} HARISH KUMAR - 75,000/-
4. Com.paidforfullchargesRs.500/-incash.5.Com.purchasechairsincashRs. 2,000/.
5. Com.ReceivedfromHarishKumarRs.25,000/-incash.

6. Com. Purchase packing material of Rs.5000/-
7. Paid to Vivek worker 25,000/- as a loan.
8. Com. Paid to Vivek worker Rs.2,000/- in cash salary.
9. Com. Received from Vikas Nagar 35,000/- in cash.
10. Com. Purchase shares of Tata of Rs.16,000/- in cash.
11. Com. paid Building Rent Rs. 35,000/- in cash.
12. Com. Sales in cash Shares of Tata Rs.26,000/- in cash.
13. Paid Mobile bill of Rs.1250/- in cash.
14. Com. paid water bill Rs. 750/- & Electricity bill Rs. 4500/- in cash.
15. Com. Received from Vivek Worker Rs.25,000/- in cash

Practical Assignment-4

(1) Mr. RAJENDRA KUMAR is owner of the company his Capital opening balance is Rs. - 25,24,125/-

(2). Company has taken Loan previous year, the reopening Balance is (a). ICICI Bank - 5,67,124/- (b). HDFC Bank - 2,15,724/-

(3). Com. Has to Pay of previous year - (a). Kelash Chand & Com. - 5,00,000/- (b). Sunjay Singh & Com. - 2,25,000/- (c). Singh & Com. - 2,25,000/-

(4). Company has Opening Stock:-
 ITEM NAME Qun. Rate Unit
 1. Ashirwad Aata (5kg) 49050/- Pkt.
 2. Ashirwad Aata (10kg) 51395/- Pkt.
 3. Swastik Aata (5kg) 12351/- Pkt.
 4. Swastik Aata (10kg) 5095/- Pkt.

1. Madhushree Tea (50gm) 5007/- Pkt.

2. Madhushree Tea (100gm) 1000 13.50/- Pkt.

3. Madhushree Tea (250gm) 70031/- Pkt. 8. Madhushree Tea (500gm) 425 60/- Pkt.

9. Madhushree Tea (1Kg) 20095/- Pkt. 10. Tata Tea (100gm.) 100013/- Pkt

11. Tata Tea (500gm.) 100075/- Pkt.

12. Zotex (100ml.) 2000110/- Nos.

13. Spicy Cool (100ml) 30085/- Nos.

14. Zotex (200ml.) 500195/- Nos.

15. Java (50ml.) 20045/- Nos. 16. Java (100ml.) 30060/- Nos.

17. Axe (100ml.) 500125/- Nos. 18. Axe (200ml.) 200210/- Nos.

19. Rexsona (100ml.) 1000135/- Nos.

20. Rexsona (200ml.) 500225/- Nos.

21. Lux Soap (75gm.) 25009.75/- Nos.

22. Lux Soap (100gm.) 150014.13/- Nos.

23. Lux Soap (125gm.) 100015.50/- Nos.

24. Breez (100gm.) 50006.00/- Nos.

25. Dove Soap (100gm.) 50021/- Nos.

26. Dove Soap (200gm.) 50040/- Nos.

27. Pears Soap (100gm.) 22525/- Nos.

28. Nila Soap (100gm.) 2006.50/- Nos.

29. Dabur Awala (100ml.) 25017/- Nos.

30. Dabur Awala (200ml.) 25031/- Nos.

31. Paracut Oil (100ml.) 50015/- Nos.

32. Paracut Oil (200ml.) 60025/- Nos.

33. Shanti Awala (100ml.) 50015/- Nos.

34. Vatika Hair Oil (100ml.) 25061/- Nos.

35. Sunsilk Shempoo (100ml.) 5020/- Nos.

36. Sunsilk Shempoo (200ml.) 5051/- Nos.

37. Clinic Plus (100ml.) 10030/- Nos. Cont 15

38. Clinic All Clear (100ml.) 10035/- Nos.

39. Clinic All Clear (200ml.) 10060/- Nos.

40. Chik Shempoo (100ml.) 2525/- Nos.

41. Chik Shempoo (50ml.) 50013/- Nos.

42. Ayur Shempoo (50ml.) 50015/- Nos.

43. AyurShempoo(100ml.)50028/-Nos.
44. VatikaShempoo(100ml.)20040/- Nos.
45. VatikaShempoo(200ml.)10070/- Nos.
46. Parle-G(100gm.)50003.88/- Pkt.
47. Parle-G(250gm.)200012/-Pkt.
48. KrackJack(100gm.)10005.00/-Pkt.
49. KrackJack(250gm.)50012/-Pkt.
50. Fair&Lovely(50gm.)25022/- Pkt.
51. AyurColdCreem(50gm.)20030/-Pkt.(5).Com.hassomefixedAssets,thereOpening balance:-
 - (i) MarutiSwift-2,13,232/-
 - (ii) Lang& Building-13, 52,232/-
 - (iii) Furniture-5,00,000/-

PRACTICAL LIST ON CLOUD COMPUTING

SuggestedPracticalfordevelopmentofapplicationsforfollowingtasks/tools:

1. Any one Tool for IaaS
2. Any one Tool for PaaS
3. Any one Tool for SaaS
4. Any one Tool for Virtualization(VMware or Microsoft Hyper-V.)
5. Any one Tool forCloudService(Amazon WebServicesor Microsoft Azure)

PRACTICAL LIST ON SOCIAL MEDIA MARKETING

1. Create and Promote Your Page on Facebook also add a Facebook Page Link to Your Important Contact Areas.
2. Create a Facebook Fan Page or a Group on Facebook for a hypothetical company.
3. Create a marketing plan driven by social media tools for a company of their choice. Within the plan, the student should decide what social media platform should be used, what content will be shared, and how much time should be allocated to each activity. Have students present their marketing plans to the class, including specific metrics they hope to achieve.
4. Each student should create a hypothetical business and design a landing page for the business's website. The landing page should have forms, graphics, and content that target a specific business objective. In a presentation, students should discuss how an individual would find this landing page, and why his or her landing page is optimized for conversion.
5. Email Marketing- Student Activity- Design Email Campaigns That Target Different Stages of the Sales Cycle.
6. Group Discussion-Website Ranking by Keyword in Google.

PROJECTWORKGUIDELINES

L	T	P	C	Theory	Internal	Practical	Total Marks
Credits/Hours							
0	2/2	4/8	6/10	0	20	80	100

Guide lines forBCA Project

The Bachelor of Computer Applications (BCA) programme is designed with the objective to prepare the students to take up positions in it industries as programmer, systems designers, software engineers, etc. The curricula are designed to provide students comprehensive knowledge covering the skills and core areas of computer science in theory and practical's. With the same objective six months major project is part of curricula in last semester of BCA. In the major project students are supposed to develop quality software solutions by applying theoretical and practical knowledge of various courses learnt.

Objectives

The objective of the project is to help the student develop the ability to apply theoreticaland practical tools / techniques to solve real life problems related to industry, academic institutions and research laboratories. After completion of this project work, the student should be able to describe the Systems Development Life Cycle (SDLC) related to their project:

- Evaluate systems requirements.
- Evaluate a problem definition.
- Collect in formation to determine requirements.
- Perform and evaluate feasibility studies like cost-benefit analysis, technical feasibility, time feasibility and operational feasibility for the project.
- Work on data collection methods for fact finding.
- Construct and evaluate data flow diagrams.
- Constructandevaluatedatadictionaries/decisiontrees/decisiontable.
- Createandevaluategraphicaltoolsassystemsflowcharts,entity-relationship(er) diagrams and state transition diagrams.
- Preparation of Software Requirement Specifications (SRS)and hardware specifications.
- Plan the systems design phase of the SDLC.
- Identification of Functional &Non-functional design requirements.
- Design and evaluate system outputs.
- Design and evaluate systems inputs.
- Design and evaluate validity checks for input data.
- Design and evaluate user interfaces.
- Perform coding for the project.
- Prepare documentation of project
- Perform various testing techniques/strategies.
- Be able to generate various reports in project.
- Able to deploy the project on machine/lab/real time environment
- Identification of the maintenance procedures.
- To decide the future scope and further enhancement of the system.
- Plan for appendices(ifany)tobepacedinsupportwiththeprojectreportdocumentation.

Types of Project

The majority of the students are expected to work on real-life project preferably in some industry/ research and development laboratories / educational institution / software company. However, it is not mandatory for a student to work on a real-life project. The student can formulate a project problem with the help of her/his supervisor and if approved, the student commences working on it.

Project Synopsis Format

The project proposal should be prepared in consultation with supervisor. Approval of the project proposal is mandatory to continue and submit the project work. The project proposal should clearly state the project objectives and the environment of the proposed project to be undertaken.

The project proposal should contain complete details in the following form:

- Title of the project
- Name of the supervisor(external supervisor(company)from /internal supervisor (teacher of the BCA))
- Introduction and objectives of the project
- Analysis(DFDs,ERdiagrams,classdiagrams,timelineetc.Aspertheprojectrequirements).
- A complete structure which includes:
- Name of modules and their description
- Database/data structures description
- Process logic of each module(flow chart)
- Reports generation.(repor format)
- Tools/platform, hardware and soft ware requirement specifications
- Organization/companydetailswithprofileofsupervisor(ifprojectiscarriedout outside the department)

Project Work Guidelines

The project work should normally include software development.

Not more than two students are permitted to work on a project.

The project maybe done in the university campus/concern study instituteorin an approved sponsoring organization in view of the proposed topic.

Acandidateisrequiredtopresenttheprogressoftheprojectworkduringthesemesteras per the schedule.

Project Report Preparation

GoodqualitywhiteA4sizepapershouldbeusedforprintingandduplication.Careshould be taken to avoid smudging pages while duplicating the copies.

PageSize–A4(21 cmx29.7cm)–Orientation– Portrait

PageMargins-LeftMargin-3.0cm,Right Margin-2.0cm,TopMargin2.54cm,Bottom Margin 2.54 cm, Line Spacing– single, Font Name-Times New Roman/ Bookman Old Style

FontSize–12 for normal text, 14forheadings, 16forchapterheading,

PageNumbers-alltextpagesaswellasprogramsourcedelistingsshouldbenumberedat the bottom of the pages.

Software Used-MS-WordorOpen Office or any other OpenSource software.

The project report should contain the following:

1. Frontpage–Blackcolor with golden or white text.
2. Certificate from the super visor with her/his signature and date.
3. Certificate from company/industry in their letter head (if project is carried out outside the department)

4. Certificate of originality/ self-certificate
5. The project report documentation should include the following topics (as per the project requirements).
6. Acknowledgements
7. Table of contents /index with page numbering
8. Introduction/objectives of the project
9. System analysis
10. Feasibility study
11. Software and hardware requirement specifications
12. System design
13. Coding
14. Validation checks
15. Testing (testing techniques and testing strategies used along with the test data and the errors listed for each test case).
16. Reports, tables figures should be properly numbered/labeled
17. Screen shots of projects
18. Implementation and maintenance
19. Conclusion
20. Futures and further enhancement of the project
21. Bibliography/references
22. Appendices(if required)

A properly labeled and signed CD which contains the soft-copy of all the program's source code and executables, databases, reports, screenshots and documentation in MS Word / Libre & PDF format should be kept in a thick envelope and must be pasted inside of the back cover of the project report.

Two copies of the original project report in bound form are to be submitted. Each group is required to prepare individual copy of project report in CD and submit along with his/her project report in MS Word / Libre as well as PDF. The same must contain the report, results, screenshots, errors, databases, source codes (wherever it is not feasible explicit approval from the supervisor must be obtained).

Project Evaluation

Internal evaluation is done on the basis of following

- Project analysis & planning
- Project design & development
- Project testing & validation
- Project documentation
- Project presentation & viva

To fulfill the above three presentation must be carried out phase wise in the whole semester for internal assessment of the project.

The standard formats of the title cover of the project reports and other standard certificates are given ahead. All students are advised to use these formats to present their reports.

PROJECT REPORT ON

“.....TITLE OF THE PROJECT”

Submitted in partial fulfillment of the requirement for the
award of the degree
Bachelor of Computer Applications (BCA)

SESSION: 20XX-20YY

Project Guided By:	Submitted By:
External Guide (if any): Internal Guide: (BCA Faculty)	Name of Student Enrollment No. Roll No. Study Institute code No. Name of Students Enrollment No. Roll No. Study Institute code No.

Submitted to



Makhanlal Chaturvedi National University of Journalism and Communication, Bhopal
<Name of Study Institute>

PROJECT CERTIFICATE

This is to certify that the project report entitled _____ submitted to Makhanlal Chaturvedi National University of Journalism & Communication, in partial fulfillment of the requirement for the award of the degree of **Bachelor of Computer Applications (BCA)**, is original work carried out by myself Mr/ Ms _____ with enrolment no. _____ under the supervision of Prof./Dr./Mr./Ms. _____. The matter embodied in this project is genuine work done by myself and has not been submitted whether to this University or to any other University / Institute for the fulfillment of the requirement of any course of study.

Date:

Name & Signature of the Student

Contact Details (Email, Phone & Address) Verified

by the Supervisor

Name & Signature of the Supervisor/s

Date:

ACKNOWLEDGEMENT

This Major Project is the result of contribution of many mind. I would like to acknowledge and thank my project guide..... (Faculty Name)for his/hervaluablesupport andguidance. He/she guided me through the process from conception and till the completion of thisproject.I wouldalsoliketothankmyclassteacher/institutedirector.....and myallmyfaculties.....Ithanktolabstaffmembers. andothernon-teaching members.

I am very thankful for the open-handed support extended by many people. While no list wouldbe complete, it is my pleasure to acknowledge the assistance of my friends who provided encouragement, knowledge and constructive suggestions.

SignatureofStudent
(Name of student)
(Roll No-----)
(EnrollmentNo-----)

SELF-CERTIFICATE

This is to certify that the Major Project report entitled “-----” is done by me, and it is authentic work carried out for the partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Application (BCA) under the guidance of.....(Faculty name). The matter and software embodied in this project has not been submitted earlier for award of any degree or diploma to the best of my knowledge and believes.

Signature of Student

(Name of student)

(Roll No-----)

(Enrollment No-----)

CERTIFICATEFROMPROJECTGUIDE

This is certify that this Major Project entitled " _____"submitted in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Application (BCA) in session (years 20to 20) to the Makhanlal Chaturvedi National UniversityofJournalism&Communication,Bhopal,doneby

_____ (student name) is an authentic work carried out by his/ them at “... ..” (study centre name /department name) (-----Place) under my guidance. The matter and software embodied in this project work has not been submitted earlier for the award of any degree or diploma to the best of my knowledge and belief.

SignatureofBCATeacher

(Project Guide)

