University Curriculum Showing Experimental Learning Through Project.

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Master of Commerce

Name of Faculty	Name of Paper's	Subject Code	Paper Code
Faculty of Commerce	**M. Com. (Iˢᵗ Sem.)**	**M. Com. 0701**	
	Managerial Economics - I – प्रबंधकीय अर्थशास्त्र		101
	Advanced Accounting - II – वृहत्त (उच्चत्तर) लेखांकन		102
	Income Tax Law and Accounts - III आयकर विधान एवं लेखे		103
	Statistical Analysis - IV – सांख्यिकी विश्लेषण		104
	Corporate Legal Framework -V – निगमित विधि संरचना		105
	M. Com. (IIⁿᵈ Sem.)		
	Business Economics - VI व्यावसायिक अर्थशास्त्र		201
	Specialized Accounting - VII विशिष्टिकृत लेखांकन		202
	Tax Planning and Management - VIII कर नियोजन एवं प्रबंध		203
	Advanced Statistics- IX उच्चत्तर सांख्यिकी		204
	Business Laws - X व्यावसायिक सन्नियम		205
	M. Com. (IIIʳᵈ Sem.)		
	Management Concept - I – प्रबंध की अवधारणा		301
	Organisational Behaviour –II संगठनात्मक व्यवहार		302
	Advance Cost Acc. - III उच्चत्तर लागत लेखांकन		303
	Management Accounting - IV – प्रबंधकीय लेखांकन		304
	Accounting for Managerial Decision – V प्रबंधकीय निर्णय के लिए लेखांकन		305
	M. Com. (IV ᵗʰ Sem.) Optional – Specialization (वैकल्पिक समूह)		
	Optional Group (A) Marketing (विपणन)		
	Principle of Marketing –A- I – विपणन के सिद्धान्त		A/401
	Advertising & Sales Management –A- II विज्ञापन एवं विक्रय प्रबंध		A/402
	Marketing Research - A-III विपणन अनुसंधान		A/403
	International Marketing – A-IV– अन्तर्राष्ट्रीय विपणन		A/404
	Optional Group (B) Management (प्रबंधन)		
	Financial Management – B-I – वित्तीय प्रबंध		B/405
	Personal Management –B-II – कार्मिक प्रबंध		B/406
	Production Management – B-III – उत्पादन प्रबंध		B/407
	Strategic Management – B-IV – व्यूह रचना प्रबंध		B/408
	Optional Group (C) Banking & Insurance (बैंकिंग एवं बीमा)		
	Banking Practices – C-I – बैंकिंग व्यवहार		C/409
	Banking Institution in India – C-II–भारत में बैंकिंग संस्थाएं		C/410
	Life Insurance – C-III– जीवन बीमा		C/411
	General Insurance – C-IV– सामान्य बीमा		C/412
	Optional Group (D) Taxation and Accounting (करारोपण एवं लेखांकन)		
	Direct Tax in India – D-I– भारत में प्रत्यक्ष कर		D/413
	Integrated Goods and Service Tax – D-II– एकीकृत वस्तु एवं सेवा कर		D/414
	Accounting in Service Sector – D-III– सेवा के क्षेत्र में लेखांकन		D/415
	Accounting Method– D-IV–लेखांकन विधि		D/416

नोट :– Project Work & Viva-Voce चतुर्थ सेमेस्टर के चारों वैकल्पिक समूह के लिए अनिवार्य है।

Special attention to the Students. Students are required to select <u>any one</u> Specialization out of four suggested below.

Optional – Specialization

Optional Group – (A)   Marketing

Optional Group – (B)   Management

Optional Group – (C)   Banking and Insurance

Optional Group – (D)   Taxation and Accounting

Optional Group – (A)   विपणन (Marketing)

प्रश्न पत्र	प्रश्नपत्र का नाम	पूर्णांक	पेपर कोड
Paper – A I प्रश्नपत्र – A I	विपणन के सिद्धान्त (Principle of Marketing)	80+20	401
Paper – A II प्रश्नपत्र – A II	विज्ञापन एवं विक्रय प्रबन्ध (Advertising & Sales Management)	80+20	402
Paper – A III प्रश्नपत्र – A III	विपणन अनुसन्धान (Marketing Research)	80+20	403
Paper – A IV प्रश्नपत्र – A IV	अन्तर्राष्ट्रीय विपणन (International Marketing)	80+20	404

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Optional Group – (B) प्रबन्ध (Management)

प्रश्न पत्र	प्रश्नपत्र का नाम	पूर्णांक	पेपर कोड
Paper – B I प्रश्नपत्र – B I	वित्तीय प्रबन्ध (Financial Management)	80+20	411
Paper – B II प्रश्नपत्र – B II	कार्मिक प्रबन्ध (Personnel Management)	80+20	412
Paper – B III प्रश्नपत्र – B III	उत्पादन प्रबन्ध (Production Management)	80+20	413
Paper – B IV प्रश्नपत्र – B IV	व्यूहरचना प्रबन्ध (Strategic Management)	80+20	414

Optional Group – (C) बैंकिंग एवं बीमा (Banking and Insurance)

प्रश्न पत्र	प्रश्नपत्र का नाम	पूर्णांक	पेपर कोड
Paper – C I प्रश्नपत्र – C I	बैंकिंग व्यवहार (Banking Practices)	80+20	421
Paper – C II प्रश्नपत्र – C II	भारत में बैंकिंग संस्थाए (Banking Institution in India)	80+20	422
Paper – C III प्रश्नपत्र – C III	जीवन बीमा (Life Insurance)	80+20	423
Paper – C IV प्रश्नपत्र – C IV	सामान्य बीमा (General Insurance)	80+20	425

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Optional Group – (D)   करारोपण एवं लेखांकन **(Taxation and Accounting)**

प्रश्न पत्र	प्रश्नपत्र का नाम	पूर्णांक	पेपर कोड
Paper – D I प्रश्नपत्र – D I	भारत में प्रत्यक्ष कर (Direct Tax in India)	80+20	431
Paper – D II प्रश्नपत्र – D II	एकीकृत वस्तु एवं सेवा कर (Integrated Goods & Service Tax)	80+20	432
Paper – D III प्रश्नपत्र – D III	सेवा के क्षेत्र में लेखांकन (Accounting in Service Sector)	80+20	433
Paper – D IV प्रश्नपत्र – D IV	लेखांकन पद्धतियाँ (Accounting Methods)	80+20	434

महत्वपूर्ण नोट :

1. सत्र 2014–15 से एम. कॉम. प्रथम, द्वितीय एवं तृतीय सेमेस्टर में सभी प्रश्न–पत्र अनिवार्य होंगें। उक्त परीक्षा में वैकल्पिक प्रश्न–पत्र चयन की व्यवस्था नहीं होगी।

2. एम. कॉम. चतुर्थ सेमेस्टर में विशिष्टिकरण समूह (A), (B), (C) या (D) में से किसी भी एक वैकल्पिक समूह का चयन कर उस समूह के सभी चार प्रश्न–पत्र अनिवार्य रूप से लेने होंगें।

3. एम. कॉम. चतुर्थ सेमेस्टर में उपरोक्त विशिष्टिकरण समूह के अतिरिक्त 50 अंक की मौखिक परीक्षा तथा 50 अंक का परियोजना प्रतिवेदन (अधिकतम 50 पृष्ठों का) तैयार करना अनिवार्य होगा। यह प्रतिवेदन वाणिज्य या प्रबन्ध विषय से सम्बन्धित होगा।

4. सभी प्रश्न–पत्रों में लिखित परीक्षा 80 अंकों की तथा 20 अंकों की आन्तरिक मूल्यांकन परीक्षा होगी। आन्तरिक मूल्यांकन के अंक परीक्षार्थियों की उपस्थिति, सेमीनार, शोध एवं शैक्षणिक कार्य में भागिता, इकाईवार मूल्यांकन परीक्षा आदि के आधार पर प्रदान किये जायेंगे।

5- आन्तरिक परीक्षा एवं बाह्य परीक्षा में प्रश्नपत्रवार न्यूनतम उत्तीर्णांक 20% होगा। जो अध्यादेश क्रमांक 170 के प्रावधानों के अनुसार बंधनकारी होगा।

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SCHEME OF EXAMINATION 2015-2016
BCA PART-III

Subject Code	Subject Paper	Theory Marks		Internal Marks		Teaching Load per Week		
						L	T	P
		Max. (A)	Min. (B)	Max. (C)	Min. (D)			
*BCA301	Part I- Calculus & Geometry	50	} 60	-	-	2	-	-
	Part II-Differential Equation & Fourier Series	50		-	-	2	-	-
	Part III- Computer System Architect	50		-	-	2	-	-
BCA302	Java	100	40	50	30	4	2	-
BCA303	Operating System	100	40	50	30	4	2	-
BCA304	Software Engineering	100	40	50	30	4	2	-
BCA305	1MULTIMEDIA TOOLS AND APPLICATIONS	50	20	-	-	2	2	-
	B. Practical based on course 305A	50	20	-	-	-	-	2x2
BCA306	A. Financial Management & Accountancy	50	} 40	-	-	2	-	-
	B. Foundation Course	50		-	-	2	-	-
BCA307	Practical Based on Course-302	100	50	-	-	-	-	3x2
BCA308	Project	100	50	-	-	-	-	1x2
TOTAL		850	360	150	90			
GRAND TOTAL	(PAPER + INTERNAL)	(A+C) 1000	(B+D) 450					

* Minimum passing marks in subject BCA301 is 40% of total marks 150(i.e. Total of Part I + Part II + Part III marks of BCA301)

9. WAP to arrange the String in alphabetical order.
10. WAP for StringBuffer class which perform the all methods of that class.
11. WAP to calculate Simple Interest using the Wrapper Class.
12. WAP to calculate Area of various geometrical figures using the abstract class.
13. WAP where Single class implements more than one interfaces and with help of interface reference variable user call the methods.
14. WAP that use the multiple catch statements within the try-catch mechanism.
15. WAP where user will create a self-Exception using the "throw" keyword.
16. WAP for multithread using the isAlive(), join() and synchronized() methods of Thread class.
17. WAP to create a package using command and one package will import another package.
18. WAP for AWT to create Menu and Popup Menu for Frame.
19. WAP for Applet that handle the KeyBoard Events.
20. WAP, which support the TCP/IP protocol, where client gives the message and server will receive the message.
21. WAP to illustrate the use of all methods of URL class.
22. WAP for JDBC to insert the values into the existing table by using prepared Statement.
23. WAP for JDBC to display the records from the existing table.
24. WAP to demonstrate the Border Layout using applet.
25. WAP for Applet who generate the MouseMotionListener Event.
26. WAP for display the checkboxes, Labels and TextFields on an AWT.
27. WAP to calculate the Area of various geometrical figures using the abstract class.
28. WAP for creating a file and to store data into that file.(Using the FileWriterIOStream)
29. WAP to read file and display its content using FILEINPUTSTREAM & RANDOMACCESSFILE
30. WAP accepting 2 inputs as a source and target file name and writes the content from the source to target.
31. WAP to display your file in DOS console use the Input/Output Stream.
32. WAP to create an Applet using the HTML file, where Parameter Pass for font Size and Font type and Applet message will change to corresponding parameters.

PRACTICAL WORK
BCA III
BCA-308 Project

1. **Scheme of Examination:- The Project should be done by individual student.**
   Practical examination will be of 3 hours duration. The distribution of practical marks will be as follows

Software Demonstration	-	40
Project Report (Hard Copy + Soft Copy)	-	20
Project Demonstration/Presentation	-	20
Project Viva	-	20
Total	-	**100**

2. **Format of the student project report on completion of the project**
   - Cover page as per format
   - Certificate of Approval
   - Certificate of project guide/Center Manager
   - Certificate of the company/Organization
   - Certificate of Evaluation
   - Declaration / Self Certificate
   - Acknowledgement

In the "Acknowledgement" page, the writer recognizes his /her indebtedness for guidance and assistance of the thesis/report adviser and other members of the faculty. Courtesy demands that he/she also recognize specific contributions by other persons or institutions such as libraries and research foundations. Acknowledgements should be expressed simply, tastefully, and tactfully.

- Synopsis of the project
- Main Report
  - ✓ Objectives & Scope of the project
  - ✓ Theoretical Background of Project
  - ✓ Definition of problem
  - ✓ System Analysis & Design
  - ✓ System Planning (PERT Chart)
  - ✓ Methodology adopted, system Implementation & Detail of Hardware & Software used
  - ✓ System maintenance & Evaluation
  - ✓ Cost and benefit Analysis
  - ✓ Detailed Life Cycle of the project
    - o ERD,DFD
    - o Input and Output Screen Design
    - o Process involved
    - o Methodology used for testing
    - o Test Report, Printout of the code sheet
  - ✓ User/Operational Manual- including security aspects, access rights, back up, Controls etc.
  - ✓ Conclusion
  - ✓ References
  - ✓ Soft copy of the project on CD

Formats of various certificates and formatting styles are as:

1. **Project report Cover Format**:

<div align="center">

A
Project Report
On

Title of the Project Report
(Times New Roman.Italic, Font Size=24)
Submitted in partial fulfillment of the requirements for the award of degree
Bachelor of Computer Application
From
Pt.Ravishankar Shukla University Raipur (C.G.)
(Bookman Old Style, 16 Point, Center)
Year : xxxx

Logo of college

</div>

Guide   Submitted by:
(Guide Name)   (Student's Name)
                                                                            Roll No:

<div align="center">

Submitted to
(College Name)
Pt.Ravishankar Shukla University Raipur (C.G.)

</div>

2. Certificate of Approval by Head of the Department in letter head

CERTIFICATE OF APPROVAL

This is to certify that the Project work entitled " _____ " is carried out by Mr/Ms/Mrs _____ , a student of BCA – III year at **(College Name)** is hereby approved as a credible work in the discipline of Computer Science & Information Technology for the award of degree of **Bachelor of Computer Application** during the year _____ from **Pt. Ravishankar Shukla University, Raipur (CG).**

(Head Name)

8. Certificate from the Guide in letter head

CERTIFICATE

This is to certify that the Project work entitled " _____ " Submitted to the **(College Name)** by Mr/Ms/Mrs _____ Roll No_____, in partial fulfillment for the requirements relating to nature and standard of the award of **Bachelor of Computer Application** degree by , **Pt. Ravishankar Shukla University, Raipur (CG)** for the academic year 20___ - 20___ .

This project work has been carried out under my guidance.

(Guide Name)

9. Certificate of the Company or Organisation from where the Project is done from the Project Manager or Project guide.

10.   Certificate of evaluation in the department letter head

CERTIFICATE OF EVALUATION

This is to certify that the Project work entitled " _____ " is carried out by Mr/Ms/Mrs _____ , a student of BCA – III year at **(College Name),** after proper evaluation and examination, is hereby approved as a credible work in the discipline of Computer Science & Information Technology and is done in a satisfactory manner for its acceptance as a requisite for the award of degree of **Bachelor of Computer Application** during the year _____ from **Pt. Ravishankar Shukla University, Raipur (CG).**

Internal Examiner   **External Examiner**

11.   Declaration of Student / Self Certificate

DECLARATION

This to certify that the project report entitled "_____ ", which is submitted by me in the partial fulfillment for the award of the degree of **Bachelor of Computer Application, (College Name),** comprises the original work carried out by me.

I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full for the award of any other degree or diploma in this Institute or any other Institute or University.

Place :   (Name)
Date :   (Roll No)

SCHEME OF EXAMINATION

Subject	Max. Marks	Min. Marks
A. FOUNDATION COURSE-		
(a) HIndi Language -	75	26
(b) English Language -	75	26
B. COMPULSORY CORE COURSE :		
i. Income Tax	75	25
ii. Indirect Tax	75	25
iii. Management Accounting	75	25
iv) Auditing	75	25
And any one of the following Cantination Optional Group.		
OPTIONAL GROUP - A		
i. Financial Management	75	25
ii. Financial Market	75	25
OPTIONAL GROUP - B		
i. Principal of Marketing	75	25
ii. International Marketing	75	25
OPTIONAL GROUP - C		
i. Information Technology and its Applications in Business	75	25
ii. Essential of E-Commerce	75	25
OPTIONAL GROUP - D		
i. Fundamentals of Insurance	75	25
iii. Money & Banking System	75	25

USE OF CALCULATORS

The students of Degree/P.G. Classes will be permitted to use of Calculators in the examination hall from annual 1986 examination on the following conditions as per decision of the standing committee of the Academic Council at its meeting held on 31-1-1986.

1. Student will bring their own Calculators.

2. Calculators will not be provided by University or examination centres.

3. Calculators with, memory and following variables be permitted $+, -, \times, \div,$ square reciprocal, expotentials, log squares, root, trignometric functions viz, sine, cosine tangent etc. factorial summation, xy, yx and in the light of objective approval of merits and demerits of the viva only will be allowed.

UNIT-IV Introduction to MIS & Other Subsystem-

Evolution of MIS, Need of MIS, Definition & Benefits of MIS, Characteristic, Role component of Information system, data base as a future of MIS, Decision making, logic of Management Information system. Structure of MIS.

UNIT-V Information System Concept -

Difference between Transaction Processing. System (TPS) and Management Information System, How MIS works, MIS and Information Resource Management, Quality information Building Blocks for the information system, information system concept, Other system characteristic (Open & Closed System), difference between MIS & Strategic System, Adaptive system, Business function information system.

BOOK REFERENCE :

1. System Analysis and Design - Elias M. Awad.
2. System Analysis and Design - Alan Dennis & Barbara Haley Wixo.
3. Management Information systems - C.S.V. Murthy, Himalaya Publication House.

PAPER - III
PRACTICAL EXERCISES BASED ON PAPER I & II

Practicals to be done -

1. At least 20 practical - exercises covering the contents of paper - I (e.g. Designing calculator, sorting of elements, Generating Fibbonacci series)

2. Design the Project on one of the following - Application Software / Website Design/ Accounting software / Inventory control System / System Software & othter (e.g. Library Management System, Medical management, Stock Management, Hotel Management, Website for your institute / Website of any Organization)

3. The Project Report cover the following topic - Objective, Hardware & Software Requirements, Analysis, Design, Coding, input forms, testing, Reports, Future enhancement of s/w.

4. Practical exam is based on the Project Demonstration & report.

COMPUTER APPLICATION

MARKS DISTRIBUTION

Theory Paper	Paper - I		Total Marks - 50
	Paper - II		Total Marks - 50

Every unit of Theory Paper will consists of 10 Marks.

Practical Paper — Total Marks - 50

Practical Marks Distribution :
- Viva — 10
- Internal — 15
- Practical — 25

Practical Test will consist of 3 Hrs.

Total Marks – 150

PAPER - I

PROGRAMMING IN VISUAL BASIC

(Paper Code-1165)

UNIT-I   Introduction to Visual Basic, Programs, Variables

Editions of Visual Basic, Event Driven Programming, Terminology, Working environment, project and executable files, Understanding modules, Using the code editor window, Other code navigation features, Code documentation and formatting, environment options, code formatting option automatic code completion features. Introduction to objects, Controlling objects, Properties, methods and events, Working with forms, interacting with the user: MsgBox function, InputBox function, Code statements, Managing forms, Creating a program in Visual Basic, Printing, Overview of variables, User-defined data types, constants working with procedures, Working with dates and times, Using the Format Function, Manipulating text stringe.

UNIT-II   Controlling Program Execution, Working with Control

Comparison and logical operators, If....Them statements, Select Case Statements looping structures, Using Do....Loop structures, For....Next statement, Exiting a loop. Types of controls, Overview of standard controls, ComboBox and ListBox, OptionButton and Frame controls Menu, Status bars, Toolbars, Advanced standard controls, ActiveX controls, Insertable objects, Arrays, Dynamic Arrays.

UNIT-III Procedure, Function Error Trapping & Debugging

Procedure, Function, call by value, call by reference, Type definition, with object, Validation, Overview of run-time errors, error handling process, The Err object, Errors and calling chain, Errors in an error-handling routine, Inline error handling, Error handling styles, General error-trapping options Type of errors, Break mode Debug toolbar, Watch window, Immediate window, Local window, Tracing Program flow with the Call Stack.

UNIT-IV Sequential and Random Files :

Saving data to file, basic filling, data analysis and file, the extended text editor, File organization Random access file, The design and coding, File Dialog Box, Picture Box, Image box, Dialog Box, using clipboard, Copy, Cut, Paste of Text & Picture in Clipboard, Use of Grid Control Multiple document interface, Single document interface.

UNIT-V Data Access Unsing the ADO Data Control & Report Generation

Overview of ActiveX data Objects, Visual Basic data access features, Relational database concepts Using the ADO Data control to access data, Overview of DAO, RDO, Data Control, structured query language (SQL), Manipulating data Using Data Form Wizard. Overview of Report, Data Report, Add groups, Data Environment, Connection to database Introduction to Crystal Report Generator.

BOOK REFERENCE :

1. Visual Basic Programming - Reeta Sahu, B.P.B. Publication.

2. Mastering in Visual Basic - By BPB Publications.

3. Visual Basic Programming - Mark Brit.

PAPER - II

SYSTEM ANALYSIS, DESING & MIS

(Paper Code-1166)

UNIT-I Introduction -

Systems Concepts and the information systems environment : Definition of system, Characteristics of system, elements of system, types of system, The system Development life cycle : consideration of candidates system. The Role of system Analyst : Introduction, the multiphase role of the analyst, the analyst / user interface, the place of the analyst in the MIS Organization.

UNIT-II System Analysis, Tools of Structured Analysis, Feasibility Study-

System Planning and initial investigation : Basis for planning in systems analysis, initial investigation, fact finding, fact analysis, determination of feasibility.

Information Gathering : Kind of information, Information gathering tools.

Structured Analysis, Flow chart, DFD, Data Dictionary, Decision Tree, Structured English, Decision Table. System Performance, Feasibility Study. Data Analysis.

UNIT-III System Design & System Implementation -

The process of Design Methodologies. Input Design, Output Design, Form Design, File Structure, File organization, data base design, System Testing, the test plan, quality assurance, data processing auditor. Conversion, Post implementation review, Software Maintenance.

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PAPER - III

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3. The Project Report cover the following topic - Objective, Hardware & Software Requirements, Analysis, Design, Coding, input forms, testing, Reports, Future enhancement of s/w.

4. Practical exam is based on the Project Demonstration & report.