# **B.Com(Computer Application**

## )Programme Outcome:

- 1) The programme is a unique combination of commerce subjects and computer applications of various language/software.
- 2) Graduates will recognize and solve problems using concepts across the disciplines and demonstrate business specific skills and competencies in Financial and Cost Accounting, Economics, management, Quantitative Analysis, Company and Business laws.
- 3) Graduates will develop good communication skills in person and for business as well.
- The graduates will be trained and acquire knowledge in various programming languages like C, C++,VB, oracle etc. and specialize in software development.
- 5) The graduates will be able to understand and demonstrate practical accounting concepts with the help of computerized accounting package Tally
- 6) The graduates will have improved employability skills with practical knowledge of e- commerce, web-designing and Tally.

Sr	Name of the subject/course	Course Outcome
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1	English-I (Communication Skills)	The Stories in the prose section will facilitate in the moral development of the students. The prose section in the syllabus will create interest in students to learn English language and make them aware of its importance in their professional career. Communication section will help students to understand the various aspects of communication. Business correspondence will develop students' drafting skills. Language Study section will enrich the vocabulary and develop the correct sentence construction ability of the students.
2	Financial Accounting	By fulfilling the entire course of Financial Accounting, students will have demonstrated they can: Describe, explain, and put together fundamental concepts underlying accounting, finance, management, marketing, and economics. Use information to support business processes and practices, such as problem analysis and decision making. Describe and explain the ethical and social responsibilities of accountants in ensuring the integrity of financial information. Develop an understanding of internal control issues and the effects of the regulatory environment on financial reporting construct, interpret, and analyze the balance sheet, income statement. Apply knowledge of generally accepted accounting principles (GAAP) and managerial accounting theories to business organizations, state and local.
3	<u>Fundamentals of Computer</u>	State and rocal.Understanding the Computer:After learned this chapter students get the knowledge of Introduction, Evolution of computers, Generation of computers, Classification of computers, Computing concepts, The computer system, Application of computers. Devices of Computers Input / Output devices Students will aware about the physical components of computers Use of Input devices and its purpose. Output devices:-, limitations,

		advantages. They can understand the use of latest softcopy and hardcopy hardware components. <u>Computer Software:</u> In this chapter students will aware about number system. In this unit chapter students will understand the definition of software, Types of computer software, System management programs, System development programs, standard application programs, <u>Operating Systems:</u> To aware about the latest technology students must know the basic thing about operating, So this chapter will focus about History of operating systems, Functions of operating systems, Process
4	Programming in 'C'	<ul> <li>management, Memory management,</li> <li>Demonstrate an understanding of computer programming language concepts.</li> <li>To be able to develop C programs.</li> <li>Able to define data types, variables, operators and use them in simple data processing applications.</li> <li>Ability to design and develop Computer programs, analyzes, and interprets the concept of pointers, array, functions, structure declarations, initialization, operations and their usage.</li> <li>Student must be able to define union and enumeration user defined data types.</li> </ul>
5	English-II (Business Communication)	The Stories in the prose section will facilitate in the moral development of the students. The prose section in the syllabus will create interest in students to learn English language and make them aware of its importance in their professional career. Communication section will help students to understand the various aspects of communication. Business correspondence will develop students' drafting skills. Language Study section will enrich the vocabulary and develop the correct sentence construction ability of the students.
6	Principles of Business Management	Course Outcomes At the completion of this course, students should be able to: Recognize the role of a manager and how it relates to the organization's mission. Define management, its four basic functions and skills. Know critical management theories and philosophies and how to apply them. Recognize the concept of social responsiveness

		and the home file
		and its benefits. Explain the relationship between strategic, tactical, and operational plans. Recognize the part communication plays in the management function. Know the levels of the management and its function.
7	<u>Programming in C++</u>	To describe and use software tools in the programming process To apply good programming principles to the design and implementation of C++ programs To design, implement, debug and test programs using the fundamental elements of C++ To demonstrate an understanding of primitive data types, values, operators and expressions in C++
8	<u>E-Commerce and Web Designing</u>	Demonstrate an understanding of the foundations and importance of E-commerce Analyze the impact of E-commerce on business models and strategy Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intra-organizational. Describe the infrastructure for E-commerce Describe the key features of Internet, Intranets and Extranets and explain how they relate to each other.
9	Environmental Studies	All students will achieve the following learning outcomes: Students will possess the intellectual flexibility necessary to view environmental questions from multiple perspectives, prepared to alter their understanding as they learn new ways of understanding. Students will solve problems systematically, creatively, and reflexively, ready to assemble knowledge and formulate strategy. Students will communicate with precision, effective art, and sound rhetoric in writing, in speech, and in digital media. Reflecting upon their internalized values system, students will continue to evolve an individual vision of harmonious and sustainable interaction among humans as well as between humans and the rest of the natural world. Students will have mastered foundational knowledge enabling them to make sound life decisions as well as enter a career in an environmental profession or graduate school.

1 1 1 1		After the completion of the course, students will
10		be able to:
		Understand the micro and macro economics.
		Analyze the demand and supply conditions and
		assess the position of a company.
		Design competition strategies, including costing,
		pricing, product differentiation, and market
	<b>Business Economics</b>	environment according to the natures of products
		and the structures of the markets.
		Analyze real-world business problems with a
		systematic theoretical framework.
		Make optimal business decisions by integrating
		the concepts of economics, mathematics and
		statistics.
11		Introduction to Visual Basic, Event driven
11		
		programming, Programming constructs - Students will aware about the Front End
		Application. They will get the knowledge of
		windows base programming.
		Working with Procedure, Function and
		Modules (Form, Class, Standard Modules)
		Discussion about the predefined procedure, how to
		create a procedure, function- awareness about
	Visual Basic Programming (FED)	library functions, how to create user defined
	visual Dasic Flogramming (FED)	functions.
		Database Programming in Visual Basic:
		Students will aware about Use of data control,
		creating database using Visual data manager,
		validating data, data bound controls. <u>Active X</u>
		data object:
		Students understand about the use of ADO
		architecture, setting data source through
12		architecture, setting data source through Active X Data objects.
12		<ul><li>architecture, setting data source through Active X Data objects.</li><li>Understand database concepts and structures and</li></ul>
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		the common body of knowledge in mathematics.
		Students will demonstrate the ability to apply
		analytical and theoretical skills to model and solve
		mathematical problems.
		Students will demonstrate the ability to analyze
		data, draw appropriate statistical conclusions and
		apply laws of probability to concrete problems.
		Perform statistical inference in several
		circumstances and interpret the results in an
		applied context.
		Use a statistical software package for
		computations with data.
		Use a computer for the purpose of simulation in
		probability and statistical inference.
14		On completion of this course, students will be able
		to:
		On completion of this course, learners will be able
		to: appreciate the relevance of business law to
		individuals and businesses and the role of law in
		an economic and social context.
		Identify the fundamental legal principles behind
	<b>Business Law</b>	contractual agreements.
		Examine how businesses can be held liable in tort
		for the actions of their employees and other
		individuals.
		Understand the legal and fiscal structure of
		different forms of business organizations and their
		responsibilities as an employer.
		Acquire problem solving techniques and to be able
1.5		to present coherent, concise legal argument.
15		Use an integrated development environment to
		write, compile, run, and test simple object-
		oriented Java programs. Read and make elementary modifications to Java
	<u>Core Java</u>	programs that solve real-world problems.
		Validate input in a Java program.
		Identify and fix defects and common security
		issues in code.
16		Write PHP scripts to handle HTML forms.
10		Write regular expressions including modifiers,
		operators, and metacharacters.
		Create PHP programs that use various PHP library
	<u>PHP &amp; MySQL</u>	functions, and that manipulate files and
		directories.
		Analyze and solve various database tasks using the
		PHP language.
		Analyze and solve common Web application tasks
		by writing PHP programs.
17		To enable the learners to gain an in-depth
1	Computerized Accounting using Tally	knowledge in Accounting Tally Software and its
L		stand and its

		alliad subjects
		allied subjects.
		To enable the learners to acquire necessary
		competencies by imparting
		Knowledge of various concepts, methods and
		approaches to analyze complex business issues.
		To improve their competitive position through
		practical methods and up-date the changes in the
		subject areas.
18		Welcome to Visual Basic.NET
		In this first unit students will understand how to
		Installing Visual Basic.NET, The Visual
		Basic.NET IDE, Creating a Simple Application,
		Working with Data Structure
		In this unit students will get the knowledge Array,
		Understanding Enumerations,
		Understanding Constants, Structures, Working
		with Collection and Lists, Building Lookup Tables
	VB Net	with Hashtable, Advanced Array Manipulation.
		Creating Menu
		After learning this unit students can create menus
		base applications because this unit focuses on
		Understanding Menu Features, Creating Menu,
		Context Menu.
		Accessing Database
		In this unit students will get the knowledge of
		database and how to create the front end and back
		end connectivity.
19		Gather data to analyse and specify the
17		requirements of a system.
		Design system components and environments.
	~	Build general and detailed models that assist
	<u>System Analysis &amp; Design</u>	programmers in implementing a system.
		Design a database for storing data, a user
		interface for data input and output, and controls to
		protect the system and its data.
20		Upon successful completion, students will have
20		the knowledge and skills to:
		Demonstrate mastery of costing systems, cost
		management systems, budgeting systems and
		performance measurement systems.
		Demonstrate the need for a balance between
	Cost & Management Accounting	financial and non-financial information in decision
		making, control and performance evaluation
		applications of management accounting.
		Evaluate the costs and benefits of different
		conventional and contemporary costing systems.
		Learn independently and to demonstrate high
		level personal autonomy and accountability
		level personal autonomy and accountability. Evaluate complex ideas and tolerate ambiguity in

		managerial and organisational problem-solving.
21	<u>C # Net</u>	knowledge of the structure and model of the programming language C # (note) use the programming language C # for various programming technologies (understanding) develop software in C # (application) evaluate user requirements for software functionality required to decide whether the programming language C # can meet user requirements (analysis) propose the use of certain technologies by implementing them in the C # programming language to solve the given problem (synthesis) Choose an engineering approach to solving problems, starting from the acquired knowledge of
22	Python	programming.Getting StartedIn this chapter they will get the knowledge ofInstalling python on windows, Installing pythonon Linux, Meeting the interpreter, Students cancreate their own program, We also discuss abouthow to Employing variables, Initialised a value tovariables, Initialised a value tovariable.Defining FunctionsImporting ModulesIn this unit students can use library functions ofpython and they can create their own user definedfunctions, Owning function names, Interrogatingthe system, Performing mathematics, Calculatingdecimals, Telling the time, Running a timer,Matching patterns.Managing stringsProgramming objectsString plays very important role in pythonprogramming. In this unit students get theknowledge of Manipulating strings, Formattingstrings, Modifying strings, Accessing files,Reading and writing files, Updating file strings,Pickling dataProcessing requestsIn this chapter we will discuss about Sendingresponses, Handling values, Submitting forms,Providing text areas, Checking boxes, Choosingradio buttons, Selecting options, Uploading filesStudents can create a applications that canLaunching a window, Responding to buttons,
23	Company Law & Secretarial Practice	Learning outcomes on completion of the syllabus students will be able to: Identify the scope, role and functions of the

		company secretary and apply them in the employing or client organisation. Ensure effective communication and dissemination of information to and from the board, both internally and externally, for the optimum benefit of the organisation. Apply the functions of a company secretary in ensuring corporate compliance through good disclosure and observance of statutory and other regulations.
		Financial, compliance and governance reporting and disclosure; understand why such disclosure is necessary. Apply statutory requirements and good practice in relation to shareholder related and communication. Critically assess the role played by the secretary in supporting compliance, disclosure and accountability across the organisation.
24	Project Work	Students gain practical knowledge and develop software.

Sr. No.	Name of Subject:	Learning Outcomes
1	FOC (Fundamentals of Computer)	
	BCCA I Sem	
Unit I	Understanding the Computer:	After learned this chapter students get the knowledge of Introduction, Evolution of computers, Generation of computers, Classification of computers, Computing concepts, The computer system, Application of computers.
	Computer Organization and Architecture:	We will discuss about Introduction, Central processing unit, Internal communications, Machine cycle, The bus, Instruction set.
	Memory and Storage Systems:	This chapter will explain the memories of computer and students will aware about the computer primary and secondary memories.
Unit II	Devices of Computers Input devices	Students will aware about the physical components of computers Use of Input devices and its purpose

	Output devices	autout devices the test and the
	Output devices	output devices, limitations, advantages. They can understand the use of latest softcopy and hardcopy hardware components.
	Computer Codes:	In this chapter students will aware about number system. In this chapter we will discuss about Introduction, Decimal system, Binary system, Hexadecimal system, Octal system, 4- bit Binary Coded Decimal(BCD) Systems, 8-bit BCD Systems, 16-bit Unicode, Conversion of numbers
Unit III	Computer Software:	In this unit chapter students will understand the definition of software, Types of computer software, System management programs, System development programs, standard application programs, Unique application programs, Problem solving, Structuring the logic, Using the computer.
	Programming Languages:	In this chapter we will discuss about the History of programming languages, Generations of programming languages, Characteristics of good programming languages, Categorization of High- level languages, Popular High-level languages, Factors affecting the choice of languages, Developing a program, Running a program. Students also can perform the coding of various programs during learning this chapter.
	Data Communication and Networks:	After learned this chapter students will get the knowledge of Computer network, Network topologies, Network protocol and software, Application of network.
Unit IV	Operating Systems:	To aware about the latest technology students must know the basic thing about operating, So this chapter will focus about History of operating systems, Functions of operating systems, Process management,

2	CAB(Computer Applications For Business) BBA I Sem	Memory management, File management, Device management, Security management, Types of operating systems, Providing user interface, Popular operating systems.
Unit I	Understanding the Computers	Students will get the knowledge Use technology ethically, safely, securely, and legally.
Unit II	Devices of Computers	Students will aware about the physical components of computers. Use of all the hardware devices, limitations, advantages. They can understand the use of latest hardware components.
Unit III	Microsoft office developed by Microsoft         Company, in Microsoft office following         program are available:         • Microsoft word         • Microsoft excel         • Microsoft power point         • Microsoft Access etc.	Students will get the knowledge of various applications like word, Excel, Power-point, Access. After learning these applications they can do their various assignments, projects through applications. <u>Microsoft word</u> :- Use to create official documents. <u>Microsoft Excel</u> :- Use to create spreadsheet programs
Unit IV	<u>IT Enabled Services (ITES) –</u>	Students will get the knowledge of Processes, Outsourcing Function, Call Centers; BPO's: Captive BPO's (GE and Dell) and Third Party BPO's (Infosys BPO, Wipro BOP, Mphasis, Daksh and EXL etc).
3	Front End Development VB (Visual Basic) BCCA II Sem	
Unit I	<u>Unit -I: Introduction to Visual Basic, Event</u> <u>driven programming, Programming</u> <u>constructs -</u>	Students will aware about the Front End Application. They will get the knowledge of windows base programming.
Unit II	Working with Procedure, Function and Modules (Form, Class, Standard Modules)	Discussion about the predefined procedure, how to create a procedure, function- awareness about library functions, how to create user defined functions. This unit also focus on various modules like form module, class module, standard

		module.
Unit III	Database Programming in Visual Basic:	Students will aware about Use of data control, creating database using Visual data manager, validating data, data bound controls.
Unit IV	<u>Active X data object:</u> <u>Error handling:</u>	Students understand about the use of ADO architecture, setting data source through Active X Data objects. Use of ADO control , connecting ADODC to bound controls. Use of different data bound Controls. Editing Updating & searching through ADO.
		In this unit students can manage and solve the different type of queries related to error handling, Types of errors, Debugging, tools for debugging, break mode,break points, watch window, immediate window, handling runtime errors.
4	VB.Net (Visual Basic. Net)	
	BCCA VI Sem	
Unit I	Welcome to Visual Basic.NET	In this first unit students will understand how to Installing Visual Basic.NET, The Visual Basic.NET IDE, Creating a Simple Application, Students Using the Help System they can manage the different program related queries The Microsoft.NET Framework – Microsoft's Reliance on Windows, Writing Software for Windows, Common Language <u>Runtime</u> , The Common Type System and Common Language Specification. We will also discuss how to Writing Software – Information and Data, Variables, Comments and Whitespaces, This unit also focuses on Data Types, Sorting Variables, Methods. Controlling the Flow – Making Decisions, The if Statement, Select Case, Loops.

Unit II	Working with Data Structure	In this unit students will get the knowledge Array, Understanding Enumerations, Understanding Constants, Structures, Working with Collection and Lists, Building Lookup Tables with Hashtable, Advanced Array Manipulation. This unit also focuses on Building Windows Application – Responding to Events, Building a Simple Application, So students can easily create their own application. They will also get the knowledge Creating Complex Applications, Using Multiple Forms. Displaying Dialog Boxes – The MessageBox Dialog box, The Open Dialog Control, The Save Dialog Control, The FontDialog Control, The ColorDialog Control, The PrintDialog Control.
Unit III	Creating Menu Debugging and Error Handling	After learning this unit students can create menus base applications because this unit focuses on Understanding Menu Features, Creating Menu, Context Menu. After learning this unit students can manage and solve Major Error Types, Debugging, Error Handling.
Unit	Accessing Database	Building Objects – Understanding Objects, Reusability, Our First Object, Constructor, Inheritance, The Framework Classes. In this unit students will get the
IV		knowledge of database and how to create the frond end and back end connectivity. In this Unit We will discuss about SQL Select Statement, Queries in Access, Data Access Components, Data Binding. In this unit we also discuss about Database Programming with SQL Server and ADO.NET –ADO.NET, The ADO.NET Classes in Action, Data

		Binding. Students can Deploying their Application.
5	Python BCCA	
	<u>VI Sem</u>	
Unit I	Getting Started	In this chapter they will get the knowledge of Installing python on windows, Installing python on Linux, Meeting the interpreter, Writing your first program, We also discuss about how to Employing variables,
	Performing operations	In this chapter students will get the knowledge of Doing arithmetic, Assigning values, Comparing Values, Assessing logic., Examining Conditions, Setting precedence, Casting data types, Manipulating bits.
	Making statements	Students will aware about the Writing lists, Manipulating lists, Restricting lists, Associating list elements, Branching with if, Looping while true, Looping over items, Breaking out of loops.
Unit II	Defining Functions Importing Modules	In this unit students can use library functions of python and they can create their own user defined functions also. Students will aware about Storing functions, Owning function names, Interrogating the system, Performing mathematics, Calculating decimals, Telling the time, Running a timer, Matching patterns.
Unit III	Managing strings Programming objects	String plays very important role in python programming. In this unit students get the knowledge of Manipulating strings, Formatting strings, Modifying strings, Accessing files, Reading and writing files, Updating file strings, Pickling data In this chapter students will aware about Encapsulating data, Creating instance objects, Addressing class attributes, Examining built-in attributes, Collecting garbage, Inheriting features, Overriding base methods, Harnessing polymorphism.
Unit IV	Processing requests	In this chapter we will discuss about Sending responses, Handling values,

Building interfaces	Submitting forms, Providing text areas, Checking boxes, Choosing radio buttons, Selecting options, Uploading files Students can create a applications that can Launching a window, Responding to buttons, Displaying messages, Gathering antrias Listing options, Polling radio
Developing applications	entries, Listing options, Polling radio buttons, Checking boxes, Adding images In this chapter students get the knowledge of Generating random numbers, Planning the problem, Designing the interface, Assigning static properties, Initializing dynamic properties, Adding runtime functionality, Testing the program, Freezing the program, Deploying the application.

## 1) Financial Accounting

By fulfilling the entire course of Financial Accounting, students will have demonstrated they can:

- Describe, explain, and put together fundamental concepts underlying accounting, finance, management, marketing, and economics.
- Use information to support business processes and practices, such as problem analysis and decision making.
- Describe and explain the ethical and social responsibilities of accountants in ensuring the integrity of financial information.

- Develop an understanding of internal control issues and the effects of the regulatory environment on financial reporting construct, interpret, and analyze the balance sheet, income statement.
- Apply knowledge of generally accepted accounting principles (GAAP) and managerial accounting theories to business organizations, state and local.

#### 2) Principles of Business Management

Course Outcomes At the completion of this course, students should be able to:

- Recognize the role of a manager and how it relates to the organization's mission.
- Define management, its four basic functions and skills.
- Know critical management theories and philosophies and how to apply them.
- Recognize the concept of social responsiveness and its benefits.
- Explain the relationship between strategic, tactical, and operational plans.
- Recognize the part communication plays in the management function.
- Know the levels of the management and its function.

## 3) Business Economics

After the completion of the course, students will be able to:

- Understand the micro and macro economics.
- Analyze the demand and supply conditions and assess the position of a company.
- Design competition strategies, including costing, pricing, product differentiation, and market environment according to the natures of products and the structures of the markets.
- Analyze real-world business problems with a systematic theoretical framework.
- Make optimal business decisions by integrating the concepts of economics, mathematics and statistics.

#### 4) Environmental Studies

All students will achieve the following learning outcomes:

- Students will possess the intellectual flexibility necessary to view environmental questions from multiple perspectives, prepared to alter their understanding as they learn new ways of understanding.
- Students will solve problems systematically, creatively, and reflexively, ready to assemble knowledge and formulate strategy.
- Students will communicate with precision, effective art, and sound rhetoric in writing, in speech, and in digital media.
- Reflecting upon their internalized values system, students will continue to evolve an individual vision of harmonious and sustainable interaction among humans as well as between humans and the rest of the natural world.
- Students will have mastered foundational knowledge enabling them to make sound life decisions as well as enter a career in an environmental profession or graduate school.

## 5) Business Law

On completion of this course, students will be able to:

- On completion of this course, learners will be able to: appreciate the relevance of business law to individuals and businesses and the role of law in an economic and social context.
- Identify the fundamental legal principles behind contractual agreements.
- Examine how businesses can be held liable in tort for the actions of their employees and other individuals.

- Understand the legal and fiscal structure of different forms of business organizations and their responsibilities as an employer.
- Acquire problem solving techniques and to be able to present coherent, concise legal argument.

## 6) Mathematics

On completion of this course, students will be able to:

- Students will demonstrate the ability to think critically, research, and reason.
- Students will demonstrate an understanding of the common body of knowledge in mathematics.
- Students will demonstrate the ability to apply analytical and theoretical skills to model and solve mathematical problems.
- Students will demonstrate the ability to analyze data, draw appropriate statistical conclusions and apply laws of probability to concrete problems.
- Perform statistical inference in several circumstances and interpret the results in an applied context.
- Use a statistical software package for computations with data.
- Use a computer for the purpose of simulation in probability and statistical inference.

## 7) Cost and Management Accounting

Upon successful completion, students will have the knowledge and skills to:

1. Demonstrate mastery of costing systems, cost management systems, budgeting systems and performance measurement systems.

- Demonstrate the need for a balance between financial and non-financial information in decision making, control and performance evaluation applications of management accounting.
- 2. Evaluate the costs and benefits of different conventional and contemporary costing systems.
- 3. Learn independently and to demonstrate high level personal autonomy and accountability.
- 4. Evaluate complex ideas and tolerate ambiguity in managerial and organisational problem-solving.

#### 8) Company law and Secretarial Practices

Learning outcomes on completion of the syllabus students will be able to:

- Identify the scope, role and functions of the company secretary and apply them in the employing or client organisation.
- Ensure effective communication and dissemination of information to and from the board, both internally and externally, for the optimum benefit of the organisation.
- Apply the functions of a company secretary in ensuring corporate compliance through good disclosure and observance of statutory and other regulations.
- Financial, compliance and governance reporting and disclosure; understand why such disclosure is necessary. Apply statutory requirements and good practice in relation to shareholder related and communication Critically assess the role played by the secretary in supporting compliance, disclosure and accountability across the organisation .