# NEHRU MEMORIAL COLLEGE (AUTONOMOUS)

NATIONALLY ACCREDITED WITH "A" GRADE BY NAAC PUTHANAMPATTI,TRICHY – 621007



# **DEPARTMENT OF COMPUTER APPLICATION (BCA)**

#### **COURSE OUTCOME (COS)**

Course Title	COURSE OUTCOME (COS
	<b>CO1:</b> Summarize the basic knowledge of
	programming
	<b>CO2:</b> Understand the syntax and semantics of C
CC-I	language
PROGRAMMING	<b>CO3:</b> Apply the concepts of functions and arrays in
IN C	solving real world problems
•	<b>CO4:</b> Demonstrate structures, union and pre-
	processing techniques
	<b>CO5:</b> Develop programs using pointers and file
	concept
	<b>CO1:</b> Develop and execute programs using
CC-II	Operators and control Structures
PROGRAMMING	<b>CO2:</b> Create programs in C to solve any kind of real
IN C LAB	world problem
-	<b>CO3</b> : Apply the programming concepts of C in the
	standalone applications.
	<b>CO 1:</b> Acquire the concepts of Mean, Median and
	Standard deviation
	<b>CO 2</b> : Understand the knowledge of Skewness and
	Kurtosis, Correlation and Regression
AC I- Statistical	Analysis
Methods	<b>CO 3</b> : Analyze various methods to find correlation
	<b>CO 4:</b> Apply the knowledge of axiomatic approach
	to independent events
	<b>CO 5:</b> Evaluate the Binomial, Poisson and Normal
	Distribution
	<b>CO1</b> : Convert standard business problems into
AC II- Operations	linear programs
<b>Research for</b>	<b>CO2</b> : Solve linear programming problems by
Computer	Graphical solution, Simplex and Big-M
Applications	method.
	<b>CO3:</b> Apply transportation techniques to find least
	cost route

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	<b>CO4</b> : Apply the fundamental concept of
	sequencing problem.
	<b>CO5</b> : Evaluate the PERT and CPM.
	<b>CO1:</b> Describe the basics of OOP and the syntax of C++ language
CC-III OBJECT	<b>CO2:</b> Apply the knowledge of functions, classes and objects for solving problem in the real world.
ORIENTED PROGRAMMING	<b>CO3:</b> Experiment the concepts of initialization and destruction of objects and Test the usage of
USING C++ AND DATA STRUCTURES	overloading of unary and binary operators <b>CO4:</b> Demonstrate the usage of inheritance and polymorphism while solving real time problem
	<b>CO5:</b> Apply file concepts and solve problems related to data files.
	<b>CO6:</b> Implement the fundamental data structures using C++ language
CC-IV C++ AND DATA	<b>CO1:</b> Apply the concepts to solve problems using C++ programming language
STRUCTURES LAB	<b>CO2:</b> Implement the basic data structures using C++
	<b>CO3:</b> Solve problems using OOPs concept
	<b>CO1</b> : Understand the concepts of types of matrices, successive differentiation and Laplace transform.
AC-III Algebra and	<b>CO2</b> : Find the Eigen values and vectors, Leibnitz's theorem and its application.
Calculus	<b>CO3</b> :solve problems using integration
r r	<b>CO4</b> : Apply the concepts of Laplace transforms of e <sup>at</sup> , t <sup>n</sup> and integration by parts and its
	properties.

	<b>CO1:</b> Apply built in functions of spread sheet
SKBC – I DATA	<b>CO2:</b> Generate charts for the given data in the
ANALYTICS LAB	spreadsheet and use pivot table
	<b>CO4:</b> Demonstrate the data analysis using Data
	Analysis toolbar in spreadsheet.
	<b>CO1:</b> Write programs to solve simple problems
	<b>CO2:</b> Interpret and manipulate the data structures
CC-V PROBLEM	<b>CO3:</b> Store and manipulate data using file system
SOLVING USING PYTHON	and handling errors
PIIION	<b>CO4:</b> Solve problems using OOPs concept
	<b>CO5:</b> Design GUI forms using Tkinter
	<b>CO1:</b> Develop and execute programs using
	Operators and control Structures
CC-VI	<b>CO2:</b> Solve programs using sequences, functions
<b>PYTHON LAB</b>	
	<b>CO3:</b> Design and execute programs using OOPs
	concepts and Kinder Module
	<b>CO1:</b> Acquire the concepts of Accounting Concepts
	and conventions, Journal, Ledger, Trail
	Balance
	<b>CO2:</b> Understand the knowledge of purchase,
	Purchase return, Sales, Sales return and
AC-IV	Cash Book
PRINCIPLES OF ACCOUNTANCY	<b>CO3:</b> Apply accounting concepts in prepaid
	expenses and outcomes, capital and drawings
	by solving problems
	<b>CO4:</b> Evaluate the assets and replace that are
	envisaged
	<b>CO5:</b> Exhibit the accounts of branch and
	departments

	<b>CO1:</b> Acquire the skills of computerized accounting
	system
	<b>CO2:</b> Enhance to create the company, groups and
	ledgers
AC-V ACCOUNTS	<b>CO3:</b> Apply the skills to preparation of final
PACKAGE LAB	accounts with adjustments
	<b>CO4:</b> Evaluate the concept of inventory
	management.
	<b>CO5:</b> Analyze the report of cost centers and cost
	categories.
	<b>CO1:</b> Apply various animation techniques
	<b>CO2:</b> Apply various concepts of image editing using
SKBC-II IMAGE EDITING LAB	GIMP tool
EDITING LAB	<b>CO3:</b> Design and execute programs using
	Animation concepts and different styles.
	<b>CO1:</b> Understand the fundamentals of database
	system.
	<b>CO2:</b> Design and create tables in database and
	execute queries.
CC-VII DATABASE	<b>CO3:</b> Apply knowledge about file system.
SYSTEMS	<b>CO4:</b> Design a database based on a data models
	using normalization.
	<b>CO5:</b> Have knowledge in network and hierarchical
	data base system.
CC-VIII RDBMS	<b>CO1:</b> Design and implement database schema for
	the given problem
	<b>CO2:</b> Populate and query using DDL,DML,DCL,TCL
	prepare SQL reports
LAB	<b>CO3:</b> Create implicit and explicit cursor. and create
	triggers, procedures and function to
	manipulate with required data

ROGRAMMING USING_R' LABProtochinCO3: Parse data files using built-in functions and apply the various statistical functions and to produce high quality graphicsAC-VI DIGITAL PRINCIPLES AND FUNDAMENTALSCO1: Understand the fundamentals of number system and its conversions.CO2: Design simplified circuits using Boolean laws and map simplifications.FUNDAMENTALSCO3: Apply the functions of basic gates to design combinational circuits.CO4: Describe the functions of sequential circuits.CO5: Categorize memory types and its functions.CO2: Categorize head and body section tagsCO3: Explain list and table tagsCO4: design and develop a static HTML pageCO5: create a user interface using HTML formsCO2: describe the skill sets required and types of BPO in Industry perspective.CO3: apply various output formats and layouts.CO4: describe quality concepts and SPCCO5: illustrate outsourcing trends and HR activities of BPO.	ROGRAMMING	problem
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	<b>CO1</b> : Identify the distinct properties and features of
	Object Orientations using JAVA
	<b>CO2</b> : Analyze the name space, Exception conditions and concurrency condition in JAVA using
CC-IX	package and Exception handling and Thread.
PROGRAMMING	<b>CO3</b> : Discuss Input/output functions with file manipulations using I/O Streams.
IN JAVA	<b>CO4</b> : Analyze GUI programming applications using
	AWT packages.
4	<b>CO5</b> : Plan to Develop Java based Applications using
	GUI and user interface and database
	Connectivity
	<b>CO1:</b> Understand the types, design, implementation
	of operating system and I/O programming
<b>CC-X PRINCIPLES</b>	concepts.
OF OPERATING	<b>CO2:</b> Recognize the management of main and
SYSTEMS	virtual memory schemes.
5151EM5	<b>CO3:</b> Analyze different scheduling algorithms.
	<b>CO4:</b> Analyze the management of devices.
	<b>CO5:</b> Understand information management
	<b>CO1:</b> Recognize the basic concepts of computer
	Network throw OSI Model
	<b>CO2:</b> Acquire the knowledge about Signals and
CC-XI DATA and	conversions
COMMUNICATION	<b>CO3:</b> Analyze the concepts of Data link Protocols
NETWORKS	and Networking switching and devices
	<b>CO4:</b> Illustrate the Internet communication
	technology and its protocols
	<b>CO5:</b> Describe various protocols in TCP/IP suite

	<b>CO1:</b> Solve programs using the basic concepts
CC-XII JAVA AND	in JAVA
SYSTEM	<b>CO2:</b> Apply JDBC to work with back end and
ADMINISTRATION	build simple applications
LAB	<b>CO3:</b> Apply basic commands and solve simple
	administrative tasks using LINUX
	<b>CO1:</b> Understand the concepts of e-Commerce
	<b>CO2:</b> Explain the basic terminology and
	techniques of mobile commerce
EC-I- MOBILE	<b>CO3:</b> Analyze the usage of mobile commerce.
COMMERCE	<b>CO4:</b> Apply the mobile commerce concepts in
	applications.
	<b>CO5:</b> Illustrate the services of business-to-
	business m-commerce
	<b>CO1:</b> Explain the characteristics, features
	and virtualization required for cloud
	computing
	<b>CO2:</b> Illustrate the basic terminology and
EC-I- CLOUD COMPUTING	techniques of cloud computing
	<b>CO3:</b> Analyze the usage and security of cloud.
	<b>CO4:</b> Explain collaboration on word,
	presentation and project management
	<b>CO5:</b> Apply and understand the different types
	of cloud apps

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EC-I- BIG DATA ANALYTICSCO1: Understand the concepts and characteristics of Big dataEC-I- BIG DATA ANALYTICSCO2: Analysis the basic terminology and techniques CO3: Understand database with big data. CO4: Manipulate Hadoop frame work CO5: Discuss map reduce and YarnNMEC-II OFFICE AUTOMATION LABCO1: Create documents, apply formatting, editing text and paragraphsCO2: Create document with tables and mail merge CO3: Use spreadsheet for calculations and apply formattingCO4: Apply macro conceptCO5: Prepare a presentation for a seminarCO2: Apply various animation techniquesCO2: Apply various concepts of image editing using GIMP toolCO3: Design and execute programs using Animation concepts and different styles.CC- XII MOBILE APPSDEVELOPMENTCC3: Student get the exposure about different types of project resourcesCO3: Student can create their own application. CO4: Student able to enhance the application with LBS, Network features, etc.			
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ANALYTICSCO3: Understand database with big data. CO4: Manipulate Hadoop frame work CO5: Discuss map reduce and YarnNMEC-II OFFICE AUTOMATION LABCO1: Create documents, apply formatting, editing text and paragraphsCO2: Create document with tables and mail merge CO3: Use spreadsheet for calculations and apply formattingCO3: Understand database with big tableCO1: Create document with tables and mail merge CO3: Use spreadsheet for calculations and apply formattingCO4: Apply macro concept CO5: Prepare a presentation for a seminarCO2: Apply various animation techniquesCO2: Apply various concepts of image editing using GIMP toolCO3: Design and execute programs using Animation concepts and different styles.CC- XII MOBILE APPS DEVELOPMENTCC- XII MOBILE APPSCC- XII MOBILE APPSCC4: Student has the knowledge on architecture of Android software stock.CO2: Student get the exposure about different types of project resourcesCO3: Student can create their own application.CO4: Student able to enhance the application with LBS, Network features, etc.	Ĭ		
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EDITING TOOLS LABGIMP toolCO3: Design and execute programs using Animation concepts and different styles.C01: Student has the knowledge on architecture of Android software stock.CC- XII MOBILE APPS DEVELOPMENTCC3: Student can create their own application.C04: Student able to enhance the application with LBS, Network features, etc.		C01	: Apply various animation techniques
EDITING TOOLS LABGIMP toolCO3: Design and execute programs using Animation concepts and different styles.Animation concepts and different styles.C01: Student has the knowledge on architecture of Android software stock.CC- XII MOBILE APPS DEVELOPMENTCC3: Student get the exposure about different types of project resourcesC03: Student can create their own application.C04: Student able to enhance the application with LBS, Network features, etc.	NMEC-II IN	MAGE CO2	: Apply various concepts of image editing using
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<ul> <li>Android software stock.</li> <li>CC- XII MOBILE</li> <li>APPS</li> <li>DEVELOPMENT</li> <li>Android software stock.</li> <li>CO2: Student get the exposure about different types of project resources</li> <li>CO3: Student can create their own application.</li> <li>CO4: Student able to enhance the application with LBS, Network features, etc.</li> </ul>			Animation concepts and different styles.
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CC- XII MOBILEof project resourcesAPPSCO3: Student can create their own application.DEVELOPMENTCO4: Student able to enhance the application with LBS, Network features, etc.			Android software stock.
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LBS, Network features, etc.	¥		
	DEVELOPMENT	MENT CO4:	
COS. Students can generate the ADK and Market it			
		CO5:	Students can generate the APK and Market it
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	<b>CO1:</b> Design a static web page using HTML
	CO2: Validate the HTML form data using JavaScript
CC- XIV WEB	<b>CO3:</b> Develop server side scripts using PHP
TECHNOLOGY	<b>CO4:</b> Communicate with MySQL database from PHP
	<b>CO5:</b> Demonstrate mist functions and avoiding
	errors
	<b>CO1:</b> Design a static web page using HTML
	<b>CO2:</b> Validate the HTML form data using JavaScript
CC-XV MOBILE	
APPS AND WEB	<b>CO3:</b> Develop server side scripts using PHP
TECHNOLOGY	<b>CO4:</b> Communicate with MySQL database from PHP
LAB	<b>CO5:</b> Implement an application using Mobile
	Apps Layouts and Events
	<b>CO6:</b> Understand the concepts of Slide
	<b>CO1:</b> Illustrate basics of software engineering,
	various factors and planning for development
	process.
	<b>CO2:</b> Analyze the software for cost, time and effort
EC-II SOFTWARE	and prepare SRS
ENGINEERING	<b>CO3</b> : Classify various design techniques and
	Criteria's for software development
	<b>CO4:</b> Apply coding standards and guidelines to
	create a software
	<b>CO5:</b> Understand various quality measures and
	metrics
	<b>CO1:</b> Understand AI problems and techniques
<b>EC-II ARTIFICIAL</b>	<b>CO2:</b> Categorize various searching techniques.
INTELLIGENCE	
AND EXPERT	<b>CO3</b> : explain knowledge representation issues
AND EAFERI	<b>CO4</b> : apply predicate logics
SYSTEM	<b>CO5:</b> illustrate expert system life cycle

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	<b>CO1:</b> design two dimensional graphics.
	<b>CO2:</b> apply two dimensional transformations.
EC-II COMPUTER	<b>CO3</b> : design three dimensional graphics.
GRAPHICS	<b>CO4</b> : apply three dimensional transformations.
	<b>CO5:</b> apply clipping techniques to graphics.
	<b>CO6:</b> design animation sequences.
	<b>CO1:</b> The student will use Visual Basic.Net to build
	Windows applications using structured and
	object-based programming techniques.
FO III	<b>CO2:</b> Design/develop programs with GUI interfaces
EC-III DISTRIBUTED APPLICATIONS USING .NET	<b>CO3:</b> Perform tests, resolve defects and revise
	existing code
	<b>CO4:</b> Develop dynamic web applications, create and
	consume web services
	<b>CO 5</b> : Create applications that use ADO. NET
	<b>CO6</b> : Use appropriate data sources and data
	bindings in VB.NET / ASP.Net.
	<b>CO1:</b> acquire the concepts of Fuzzy and SET theory
	<b>CO2:</b> understand the knowledge of Optimization
	techniques
EC-III	<b>CO3:</b> illustrate the various learning methods of
SOFTCOMPUTING	learning in neural networks
	<b>CO4:</b> apply the knowledge of neuro fuzzy models.
	<b>CO5:</b> identify and specify different soft computing
	Applications.
	<b>CO1:</b> recognize the fundamentals of IOT
	<b>CO2:</b> acquire the knowledge of IOT architecture
	<b>CO3:</b> interpret the protocols used in Data link and
<b>EC-III INTERNET</b>	Network layer in IOT
OF THINGS	<b>CO4:</b> classify different protocols used in different
	layers of IOT
	<b>CO5:</b> relate the service layer and application layer

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