

TECNIA INSTITUTE OF ADVANCED STUDIES
NAAC Accredited Grade 'A' Institute
Department of Computer Applications
BCA Ref. No.

TIAS/BCA/2021-22/

BCA 211#	Basics of Python Programming	To acquire programming skills in core Python.	Explain basic principles of Python programming language
		2. To acquire Object Oriented Skills in Python	2. Implement object oriented concepts,
		3. To develop the skill of designing Graphical user Interfaces in Python	3. Implement database and GUI applications.
		4. To develop the ability to write database applications in Python	Read and write data from & to files in Python and develop Application using Pygame
BCA 218	Web Development with python	To learn and understand Python programming basics and paradigm	Define and demonstrate the use of built-in data structures “lists” and “dictionary”
		To learn and understand python looping, control statements and string manipulations.	Design and implement a program to solve a real world problem.
		Students should be made familiar with the concepts of GUI controls and designing GUI applications.	. Design and implement GUI application and how to handle exceptions and files.
		To learn and know the concepts of file handling, exception handling and database connectivity.	Make database connectivity in python programming language.
BCA 235	ASP Dot Net	The student will use Visual Basic.Net to build Windows applications using structured and object-based programming techniques.	Students will understand .NET Framework and describe some of the major enhancements to the new version of Visual Basic. . . .
		Students will be exposed to the concepts and skills .Analyze program requirements	Students will describe the basic structure of a Visual Basic.NET project and use main features of the integrated development

			environment (IDE)
		Design/develop programs with GUI interfaces	Students will create applications using Microsoft Windows Forms
		Code programs and develop interface using Visual Basic .Net	Students will create applications that use ADO. NET
BCA 317	Web Development with Java & JSP	To learn JavaScript for creating dynamic websites.	Students will be able to implement web based applications using JAVA Script and JAVA Beans.
		To acquire knowledge on creation of software components using JAVA Beans	Learners will be able to implement and design web based applications using effective data base access.
		To learn Server-Side Programming using Servlets and Java Server Pages.	Students will be able to server side programming using JSP.
		To learn the creation of pure Dynamic Web Application using JDBC.	Learners will be able to apply the concepts of server side techniques for creating dynamic web applications.
BCA 318	Mobile Application Development	To understand the basic theory underlying mobile computation	Explain Mobile Computing concepts, classifications of Mobile Communication
		To be able to formulate mobile computing problems corresponding to different applications.	Describe Supervised Learning concepts.
		To understand a range of mobile computing algorithms along with their strengths and weaknesses	Describe the implementation of wireless sensor nodes in mobile data transfer
		To be able to apply mobile computing algorithms to solve problems of moderate complexity.	Discuss simple Mobile applications development in a range of real-world applications