

**List of Courses having focus on local, national, regional and global developmental needs
offered by BCA**

UG DEPARTMENT OF COMPUTER PPLICATIONS						
Programme: BCA					Year: 2020	
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
20UBC519	Core - XI : Java Programming				✓	It is primarily used for Internet-based applications.
20UBC520	Core - XII :Skill Enhanced Course Software Testing		✓			It provides the opportunity and knowledge for a client to develop and strengthen the necessary skills to gain, maintain, and advance in a chosen area
20UBC5E1	Core Elective - I Networks				✓	Interconnects the people and companies across the world.
20UBC5E2	Core Elective - I -Grid Computing			✓		It provides collaborative computing support.
20UBC5E3	Core Elective – II - Storage Management				✓	Provides a comprehensive learning on storage technology
20UBC5E4	Core Elective – II - Current Trends and Technologies				✓	To determine what is currently accepted to be the best and to take a constructivist approach to develop a leadership vision for implications of past, current and future developments in Technology
20UBC521	Core Lab - IX: Java Programming				✓	It is used for creating internet based applications.
20UBC522	Core Lab - X : Software Testing				✓	To identify any errors, gaps or missing requirement versus the actual requirement.
20UBC5S1	Skill Based Elective – I Mobile Phone Services				✓	Business and personal use.
20UBC5S2	Skill Based Elective – I				✓	To know about physical objects that is embedded with sensors.

	Internet of Things					
20UBC513	Skill Based Elective – I Desktop Publishing Lab	✓				It is used to create documents like leaflets, brochures and newsletters.
20UBC623	Core - XIII :Python Programming				✓	Faster growing, easily written and executed much faster than other programming language, highly demand for job
20UBC624	Core - XIV : Information Security				✓	Everything is online and information security is more important, exciting job opportunities
20UBC625	Core - XV : Mobile Application Development		✓	✓		Hiring more mobile app developers by the enterprises are increased day by day
20UBC6E5	Core Elective - II : Data Mining and Warehousing				✓	Very popular to analyze and explore the data in many different sectors of business
20UBC6E6	Core Elective – II: Cloud Computing				✓	Future of computing is cloud based computing, More user friendly and affordable
20UBC626	Core Lab - XI : Python Programming				✓	Faster growing, easily written and executed much faster than other programming language
20UBC627	Core Lab - XII : Mobile Application Development				✓	Hiring more mobile app developers by the enterprises are increased day by day
20UBC6S4	Skill Based Elective - II: Corporate Systems		✓			Essential to learn about the operations of the Corporate industry and prepare themselves to meet their requirement.
20UBC6S5	Multimedia And Animation	✓				Every promotion in industry is closely related to animation. Due to its extensive and ever expanding field, animators are highly demanded persons
20UBC6S5	Personality Development Skills				✓	Mandatory for everyone to sustain and survive in the field

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21UBC307	Core - V :Relational Database Management System And Oracle				✓	It is possible to store complex business models in a relational database.
21UBC308	Core - VI :Operating Systems				✓	It allowscommunicating with the computer without knowing how to speak the computer's language.
21UBC309	Core - VII :Organizational Behaviour	✓	✓	✓		It helps to understand one's own behaviors, attitudes, ethical views, and performance.
21UBC3A3	Allied - III :Accountancy For Decision Making		✓			To know financial transactions of a business.
21UBC310	Core Lab - III : Relational Database Management System And Oracle				✓	Gains Practical experience for data storage in order to perform complex business applications.
21UBC311	Core Lab - IV : Operating Systems				✓	Provides Problem-Oriented Learning.
21UBC312	Core Lab - V : Graphics	✓	✓			Enhances the knowledge of web page appearances.
21UBC3N11 /	Non Major Elective - I : Web Designing Lab				✓	1) Can learn in a short period of time. 2) Need limited skills. 3) Freelancing projects can be done.
21UBC3N12	Non Major Elective - I : Desktop Publishing Lab	✓				It is used to create documents like leaflets, brochures and newsletters.

21UBC413	Core - VIII :Web Technology				✓	Web technology concepts are required for developing web applications
21UBC414	Core - IX :Computer System Architecture		✓	✓		To enhance the knowledge of designing, building and operating the Computers and knowing what is inside and how it works.
21UBC415	Core - X :Software Engineering		✓	✓		To gain the knowledge to solve the software and system challenges with a comprehensive set of skills
21UBC4A4	Allied - IV :Mathematics III - Computer Based Optimization Techniques			✓		By doing quantitative methods and techniques for effective decision making, model formulation and applications, it helps the students to equip them to solve business/job decision problems.
21UBC416	Core Lab - VI: ASP.NET				✓	Reliable, fast, easy and open source framework to develop dynamic, rich web sites and web applications
21UBC417	Core Lab - VII : PHP Programming				✓	Extensively used for building web applications, web sides, cloud computing and machine learning also.
21UBC418	Core Lab - VIII: Web Designing				✓	Designing a web site is most essential in every sector which reflects in better business and revenue
21UBC4N21 /	Non Major Elective - II : Photo Effects Lab/	✓				To understand the expectations of industry and to improve employability skills
21UBC4N22	Non Major Elective – II: Animation Lab	✓				Every promotion in industry is closely related to animation. Due to its extensive and ever expanding field, animators are highly demanded persons

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UG DEPARTMENT OF COMPUTER APPLICATIONS						
Programme: BCA					Year: 2022	
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22UBC101	Core - I : Programming In C				✓	It is used in Embedded systems for developing desktop applications.
22UBC102	Core - II : Data Structures			✓	✓	Key Component of Computer Science, back functionality in Internet Browser, largely used in Artificial Intelligence
22UBC1A1	Allied - I : Mathematics I - Computer Oriented Numerical And Statistical Methods	✓		✓		Gain an experience in the implementation of numerical methods using a computer.
22UBC103	Core Lab -I : Programming In C				✓	It constitutes easier time solving problems.
22UHR101	Human Rights			✓	✓	It helps to learn the basic and fundamental rights
22UBC204	Core - III : Object Oriented Programming With C++				✓	Powerful General Purpose Programming Language used to develop OS, Browsers, games and so on.
22UBC205	Core - IV : Digital Computer Fundamentals	✓	✓			To meet the requirements to appear for NET& SET.
22UBC2A2	Allied - II : Mathematics II -Mathematical Foundations of Computer Applications	✓	✓			Tool for improving reasoning and problem-solving capabilities
22UBC206	Core Lab - II : Programming in C++				✓	Helps to create computer applications that can be used to solve real world problems

22EVS201	Environmental Studies				✓	To acquire the knowledge of environmental issues and enrich them to take responsible decisions
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