

List of Courses having focus on Local, National, Regional and Global Developmental Needs offered by the BCA

BCA						
Programme: BCA					Year:2019-2022 Batch	
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
19UBC101	Core - I : Programming In C				✓	It is used in Embedded systems for developing desktop applications.
19UBC102	Core – II : Fundamentals of Digital Computer	✓	✓			To meet the requirements to appear for NET&SET.
19UBC1A1	Allied - I :Mathematics I - Computer Oriented Numerical And Statistical Methods	✓		✓		Gain an experience in the implementation of numerical methods using a computer.
19UBC103	Lab -I : Programming In C				✓	It constitutes easier time solving problems.

19UBC204	Core - III : Object Oriented Programming With C++					✓	Powerful General Purpose Programming Language used to develop OS, Browsers, games and so on.
19UBC205	Core - IV : Data Structures				✓	✓	Key Component of Computer Science, back functionality in Internet Browser, largely used in Artificial Intelligence
19UBC2A2	Allied - II : Mathematics II – Mathematical Foundations Of Computer Applications	✓	✓				Tool for improving reasoning and problem-solving capabilities
19UBC206	Lab - II : Programming In C++					✓	Helps to create computer applications that can be used to solve real world problems
19EVS201	Environmental Studies					✓	To acquire the knowledge of environmental issues and enrich them to take responsible decisions
19UBC307	Core - V :RDBMS and Visual Programming					✓	It is possible to store complex business models in a relational database.
19UBC308	Core - VI :Operating Systems					✓	It allows communicating with the computer without knowing how to speak the computer's language.
19UBC309	Core - VII :Organizational Behaviour	✓	✓		✓	✓	It helps to understand one's own behaviors, attitudes, ethical views, and performance.
19UBC3A3	Allied - III :Accountancy For Decision Making			✓			To know financial transactions of a business.
19UBC310	Lab - III : Relational Database Management System And Oracle					✓	Gains Practical experience for data storage in order to perform complex business applications.

19UBC311	Lab - IV : OS Commands and Shell Script Programming					✓	Provides Problem-Oriented Learning.
19UBC312	Lab - V : DTP Programming	✓	✓				It is used to create documents like leaflets, brochures and newsletters.
19UBC3N1	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.
19UBC3N2	Non Major Elective - I : DTP Programming Lab	✓					It is used to create documents like leaflets, brochures and newsletters.
19UBC413	Core - VIII : Web Development					✓	Web technology concepts are required for developing web applications
19UBC414	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.
19UBC415	Core - X : Software Engineering		✓	✓		✓	To gain the knowledge to solve the software and system challenges with a comprehensive set of skills
19UBC4A4	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.
19UBC416	Lab - VI: Web Development					✓	Reliable, fast, easy and open source framework to develop dynamic, rich web sites and web applications

19UBC417	Lab - VII : PHP Programming				✓	Extensively used for building web applications, web sites, cloud computing and machine learning also.
19UBC418	Lab - VIII: Scripting and HTML				✓	Designing a web site is most essential in every sector which reflects in better business and revenue.
19UBC4N3	Non Major Elective - II : Open Source Software Lab	✓				To understand the software which are made freely available in Internet
19UBC4N4	Non Major Elective – II: 2D Animation Lab	✓				Every promotion in industry is closely related to animation. Due to its extensive and ever expanding field, animators are highly demanded persons
19UBC519	Core - XI : Java Programming				✓	It is primarily used for Internet-based applications.
19UBC520	Core - XII : 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.
19UBC5E1	Elective - I Networks				✓	Interconnects the people and companies across the world.
19UBC5E2	Elective - I Grid Computing			✓		It provides Collaborative computing support.
19UBC5E3	Elective - II Storage Management				✓	The goal of storage management is to improve the performance of resources, not to expand capacity.

19UBC5E4	Elective - II Current Trends and Technologies	✓	✓	✓	✓	✓	It presents the key technologies underlying each trend, along with their current applications and the disruptions they portend for companies going forward.
19UBC521	Lab - IX: Java Programming				✓		It is used for creating internet based applications.
19UBC522	Lab - X : Software Testing				✓		To identify any errors, gaps or missing requirement versus the actual requirement.
19UBC5S1	Skill Based Elective – I Software Analysis and Design				✓		To help the transformation of the requirement specification into implementation.
19UBC5S2	E-Commerce				✓		To know about the transaction of goods and services through online source from B2C.
19UBC5S3	Distributed Operating System	✓					It is used to connect multiple computers via a single communication channel.
	ADD-ON Course-Mini Project	✓			✓		Project allows the students to study, do research and act by themselves using their abilities, interests, personal experience and aptitudes.
19UBC623	Core - XIII :Python Programming				✓		Faster growing, easily written and executed much faster than other programming language, highly demand for job
19UBC624	Core - XIV :Information Security	✓	✓	✓	✓		To protect the confidentiality, integrity and availability of computer system and physical data from unauthorized access whether with malicious intent or not.

19UBC625	Core - XV : Mobile Application Development	✓	✓	✓	✓	✓	Hiring more mobile app developers by the enterprises are increased day by day
19UBC6E5	Elective -III : Data Mining and Warehousing					✓	Data mining is used to discover patterns and relationships in the data. Data warehousing improves the speed and efficiency of accessing different data sets
19UBC6E6	Elective -III : Cloud Computing	✓	✓	✓		✓	Cloud enables users the ability to upscale or downscale infrastructure as and when required with ease, which results in optimal usage of resources.
19UBC626	Lab - XI : Python Programming					✓	Faster growing, easily written and executed much faster than other programming language
19UBC627	Lab - XII : Mobile Application Development	✓	✓	✓	✓	✓	Hiring more mobile app developers by the enterprises are increased day by day
19UBC6S4	Skill Based Elective - II: Software Industry Domains	✓	✓	✓	✓	✓	Essential to learn about the operations of the Corporate industry and prepare themselves to meet their requirement.
19UBC6S5	Skill Based Elective - II: 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
19UBC6S6	Skill Based Elective - II: Soft Skills	✓	✓	✓	✓	✓	Mandatory for everyone to sustain and survive in the field

Signature

BOS Chairman

Chairman - Head of the Department

Board of Studies

UG Department of Computer Applications

Melamangudi Government Mahalingam College (Autonomous)

Pollachi - 642 001, Tamilnadu.

CDC Co-ordinator

Principal

List of Courses having focus on Local, National, Regional and Global Developmental Needs offered by the BCA

BCA						
Programme: BCA					Year:2018-2021 Batch	
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
18UBC101	Programming In C				✓	It is used in Embedded systems for developing desktop applications.
18UBC102	Fundamentals of Digital Computer	✓	✓			To meet the requirements to appear for NET&SET.
18UBC1A1	Allied - I :Mathematics I - Computer Oriented Numerical And Statistical Methods	✓		✓		Gain an experience in the implementation of numerical methods using a computer.
18UBC103	Programming Lab-I: C Programming				✓	It constitutes easier time solving problems.

18UBC204	Object Oriented Programming With C++				✓	Powerful General Purpose Programming Language used to develop OS, Browsers, games and so on.
18UBC205	Computer System Architecture			✓	✓	To enhance the knowledge of designing, building and operating the Computers and knowing what is inside and how it works.
18UBC2A2	Marketing and HR	✓	✓			It is used for communicating the brand of the company to the public. To find the best people to promote and build the brand.
18UBC206	Programming Lab-II: C++ Programming				✓	Helps to create computer applications that can be used to solve real world problems
18EVS201	Environmental Studies				✓	To acquire the knowledge of environmental issues and enrich them to take responsible decisions
18UBC307	RDBMS and Visual Programming				✓	It is possible to store complex business models in a relational database.
18UBC308	Shell Programming in Operating Systems				✓	It allows communicating with the computer without knowing how to speak the computer's language.
18UBC309	Data Structures and Algorithms				✓	Key Component of Computer Science, back functionality in Internet Browser, largely used in Artificial Intelligence
18UBC3A3	Allied - III :Accountancy For Decision Making		✓			To know financial transactions of a business.

18UBC310	Programming Lab - III: RDBMS and Visual Programming.					✓	Gains Practical experience for data storage in order to perform complex business applications.
18UBC311	Programming Lab - IV : OS Commands and Shell Script Programming					✓	It allows communicating with the computer without knowing how to speak the computer's language.
18UBC312	Programming Lab - V : DTP Programming	✓	✓				It is used to create documents like leaflets, brochures and newsletters.
18UBC3N1	Non Major Elective Programming Lab: Web Designing					✓	1) Can learn in a short period of time. 2) Need limited skills. 3) Freelancing projects can be done.
18UBC3N2	Non Major Elective Programming Lab : DTP Programming	✓					It is used to create documents like leaflets, brochures and newsletters.
18UBC413	Framework Technologies					✓	Reliable, fast, easy and open source framework to develop dynamic, rich web sites and web applications
18UBC414	Introduction to Web Designing and Programming		✓	✓			Designing a web site is most essential in every sector which reflects in better business and revenue.
18UBC415	Software Engineering		✓	✓		✓	To gain the knowledge to solve the software and system challenges with a comprehensive set of skills
18UBC4A4	Allied - IV :Mathematics II - 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.

18UBC416	Programming Lab - VI: Framework Technologies					✓	Reliable, fast, easy and open source framework to develop dynamic, rich web sites and web applications
18UBC417	Programming Lab - VII : Web Designing					✓	Extensively used for building web applications, web sites, cloud computing and machine learning also.
18UBC418	Programming Lab - VIII: PHP Programming						To understand the software which are made freely available in Internet.
18UBC4N3	Non Major Elective Programming Lab : Open Source Software	✓					Every promotion in industry is closely related to animation. Due to its extensive and ever expanding field, animators are highly demanded persons
18UBC4N4	Non Major Elective Programming Lab : 2-D Animation	✓				✓	It is primarily used for Internet-based applications.
18UBC519	Object Oriented Programming using Java Language						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.
18UBC520	Software Testing	✓	✓				Interconnects the people and companies across the world.
18UBC521	Elective - I Computer Networks					✓	It presents the key technologies underlying each trend, along with their current applications and the disruptions they portend for companies going forward.
18UBC522	Elective - II Current Trends and Technologies				✓		

18UBC523	Programming Lab - IX: Java Programming					✓	It is used for creating internet based applications.
18UBC524	Programming Lab - X : Software Testing					✓	To identify any errors, gaps or missing requirement versus the actual requirement.
18UBC5S1	Skill Based Elective: Software Analysis and Design					✓	To help the transformation of the requirement specification into implementation.
18UBC5S2	Skill Based Elective: E-Commerce					✓	To know about the transaction of goods and services through online source from B2C.
18UBC5S3	Skill Based Elective: Aptitude	✓					To know about logical reasoning and Analytical reasoning.
	ADD-ON Course-Mini Project	✓				✓	Project allows the students to study, do research and act by themselves using their abilities, interests, personal experience and aptitudes.
18UBC625	Advanced Java Programming					✓	To develop general purpose and web based applications.
18UBC626	Elective III: Data Mining and Warehousing	✓	✓	✓	✓	✓	Data mining is used to discover patterns and relationships in the data. Data warehousing improves the speed and efficiency of accessing different data sets
18UBC627	Information Security	✓	✓	✓	✓	✓	To protect the confidentiality, integrity and availability of computer system and physical data from unauthorized access whether with malicious intent or not.

18UBC628	Mobile Application Development					✓	Hiring more mobile app developers by the enterprises are increased day by day
18UBC629	Programming Lab - XI : Advanced Java Programming	✓	✓	✓	✓	✓	To develop general purpose and web based applications.
18UBC630	Programming Lab - XII : Mobile Application Development						Hiring more mobile app developers by the enterprises are increased day by day
18UBC6S4	Skill Based Elective - II: Software Industry Domains	✓	✓	✓	✓	✓	Essential to learn about the operations of the Corporate industry and prepare themselves to meet their requirement.
18UBC6S5	Skill Based Elective - II: 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
18UBC6S6	Skill Based Elective - II: Soft Skills	✓	✓	✓	✓	✓	Mandatory for everyone to sustain and survive in the field

Handwritten Signature

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Pollachi - 642 001, Tamilnadu

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BCA						
Programme: BCA					Year:2020-2023 Batch	
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
20UBC101	Core - I : Programming In C				✓	It is used in Embedded systems for developing desktop applications.
20UBC102	Core – II : Digital Computer Fundamentals	✓	✓			To meet the requirements to appear for NET&SET.
20UBC1A1	Allied - I :Mathematics I - Computer Oriented Numerical And Statistical Methods	✓		✓		Gain an experience in the implementation of numerical methods using a computer.
20UBC103	Lab -I : Programming In C				✓	It constitutes easier time solving problems.
20UBC204	Core - III : Object Oriented Programming With C++				✓	Powerful General Purpose Programming Language used to develop OS, Browsers, games and so on.
20UBC205	Core - IV : Data Structures			✓	✓	Key Component of Computer Science, back functionality in Internet Browser, largely used in Artificial Intelligence

20UBC2A2	Allied - II : Mathematics II – Mathematical Foundations Of Computer Applications	✓	✓			Tool for improving reasoning and problem-solving capabilities
20UBC206	Lab - II : Programming In C++				✓	Helps to create computer applications that can be used to solve real world problems
20EVS201	Environmental Studies				✓	To acquire the knowledge of environmental issues and enrich them to take responsible decisions
20UBC307	Core - V :Relational Database Management System And Oracle				✓	It is possible to store complex business models in a relational database.
20UBC308	Core - VI :Operating Systems				✓	It allows communicating with the computer without knowing how to speak the computer's language.
20UBC309	Core - VII :Organizational Behaviour	✓	✓	✓	✓	It helps to understand one's own behaviors, attitudes, ethical views, and performance.
20UBC3A3	Allied - III :Accountancy For Decision Making		✓			To know financial transactions of a business.
20UBC310	Lab - III : Relational Database Management System And Oracle				✓	Gains Practical experience for data storage in order to perform complex business applications.
20UBC311	Lab - IV : Operating Systems				✓	Provides Problem-Oriented Learning.
20UBC312	Lab - V : Graphics	✓	✓			Enhances the knowledge of web page appearances.
20UBC3N1	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.

20UBC3N2	Non Major Elective - I : Desktop Publishing Lab	✓				It is used to create documents like leaflets, brochures and newsletters.
20UBC413	Core - VIII :Web Technology				✓	Web technology concepts are required for developing web applications
20UBC414	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.
20UBC415	Core - X :Software Engineering		✓	✓	✓	To gain the knowledge to solve the software and system challenges with a comprehensive set of skills
20UBC4A4	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.
20UBC416	Lab - VI: ASP.NET				✓	Reliable, fast, easy and open source framework to develop dynamic, rich web sites and web applications
20UBC417	Lab - VII : PHP Programming				✓	Extensively used for building web applications, web sides, cloud computing and machine learning also.
20UBC418	Lab - VIII: Web Designing				✓	Designing a web site is most essential in every sector which reflects in better business and revenue
20UBC4N3	Non Major Elective - II : Photo Effects Lab	✓				To understand the expectations of industry and to improve employability skills
20UBC4N4	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

20UBC519	Core - XI : Java Programming				✓	It is primarily used for Internet-based applications.
20UBC520	Core - XII : 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	Elective - I Networks				✓	Interconnects the people and companies across the world.
20UBC5E2	Elective - I Grid Computing			✓		It provides Collaborative computing support.
20UBC5E3	Elective - II Storage Management				✓	The goal of storage management is to improve the performance of resources, not to expand capacity.
20UBC5E4	Elective - II Current Trends and Technologies	✓	✓	✓	✓	It presents the key technologies underlying each trend, along with their current applications and the disruptions they portend for companies going forward.
20UBC521	Lab - IX: Java Programming				✓	It is used for creating internet based applications.
20UBC522	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	Internet of Things				✓	To know about physical objects that is embedded with sensors.

20UBC5S3	Desktop Publishing Lab	✓				It is used to create documents like leaflets, brochures and newsletters.
20UBCAD1	ADD-ON Course-Mini Project	✓			✓	Project allows the students to study, do research and act by themselves using their abilities, interests, personal experience and aptitudes.
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	✓	✓	✓	✓	To protect the confidentiality, integrity and availability of computer system and physical data from unauthorized access whether with malicious intent or not.
20UBC625	Core - XV : Mobile Application Development	✓	✓	✓	✓	Hiring more mobile app developers by the enterprises are increased day by day
20UBC6E5	Elective -III : Data Mining and Warehousing				✓	Data mining is used to discover patterns and relationships in the data. Data warehousing improves the speed and efficiency of accessing different data sets
20UBC6E6	Elective -III : Cloud Computing	✓	✓	✓	✓	Cloud enables users the ability to upscale or downscale infrastructure as and when required with ease, which results in optimal usage of resources.
20UBC626	Lab - XI : Python Programming				✓	Faster growing, easily written and executed much faster than other programming language
20UBC627	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	Skill Based Elective - II: 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
20UBC6S6	Skill Based Elective - II: Personality Development Skills	✓	✓	✓	✓	Mandatory for everyone to sustain and survive in the field



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