

Nallamuthu Gounder Mahalingam College (Autonomous)

Pollachi

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

UG DEPARTMENT OF COMPUTER PPLICATIONS						
Programme: BCA					Year: 2023	
Course Code	Course Title	Need				Rationale
		Local	National	Regional	Global	
23UBC101	CC I :Programming In C				✓	It is used in Embedded systems for developing desktop applications.
23UBC102	CC II : Data Structures			✓	✓	Key Component of Computer Science, back functionality in Internet Browser, largely used in Artificial Intelligence
23UBC1A1	GE I – Allied: Mathematics I- Computer Oriented Numerical And Statistical Methods	✓		✓		Gain an experience in the implementation of numerical methods using a computer.
23UBC1A2	GE I – Allied: Discrete Mathematics- I	✓		✓		It helps in studying and describing objects and problems in branches of computer science
23UBC103	CC Lab -I: Programming In C				✓	It constitutes easier time solving problems.
23UBC204	CC III :Object Oriented Programming With C++				✓	Powerful General Purpose Programming Language used to develop OS, Browsers, games and so on.
23UBC205	CC IV :Core-IV: Digital Computer Fundamentals	✓	✓			To meet the requirements to appear for NET& SET.
23UBC2A1	GE II - Allied :Mathematics II-Mathematical Foundations Of Computer Applications	✓	✓			Tool for improving reasoning and problem-solving capabilities
23UBC2A2	GE II – Allied :Discrete	✓	✓			It helps in studying and describing objects and problems

	Mathematics-II					in branches of computer science
23UBC206	CC Lab - II : Programming In C++				✓	Helps to create computer applications that can be used to solve real world problems
23UBC2S1	SEC I: Naan Mudhalvan: Data science Foundation				✓	Students are recruited for most highly paid jobs.
23EVS201	AECC I: Environmental Studies				✓	To acquire the knowledge of environmental issues and enrich them to take responsible decisions
22UBC307	Core V:Relational Database management System and Oracle				✓	It is possible to store complex business models in a relational database.
22UBC308	Core VI: Operating System & Linux				✓	It allows communicating with the computer without knowing how to speak the computer's language.
22UBC3A3	Allied III: Accountancy For Decision Making		✓			To know financial transactions of a business.
22UBC309	Core Lab - III: Relational Database Management System and Oracle				✓	Gains Practical experience for data storage in order to perform complex business applications.
22UBC310	Core Lab- IV: Programming in Linux				✓	Provides Problem-Oriented Learning.
22UBC3N1	NME - I : Web Designing Lab				✓	1) Can learn in a short period of time. 2) Need limited skills. 3) Freelancing projects can be done.
22UBC3N2	NME - I : Desktop Publishing Lab	✓				It is used to create documents like leaflets, brochures and newsletters.
22UBC411	Core VIII: Visual Programming			✓	✓	Web technology concepts are required for developing web applications

22UBC412	Core IX: Java Programming				✓	It is primarily used for Internet-based applications.
22UBC4A4	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.
22UBC413	Core Lab V: Visual Programming				✓	Reliable, fast, easy and open source framework to develop dynamic, rich web sites and web applications
22UBC414	Core Lab VI: Java Programming				✓	It is used for creating internet based applications.
22UBC4S1	SEC II: Naan Mudhalvan: Cloud Computing				✓	It is used for creating working platform development.
22UBC4S1	SEC II: Naan Mudhalvan: DevOps Foundation				✓	It is used for collaboration and automation of efficient software delivery.
22UBC4N1	NME - II : Photo Effects Lab	✓				To understand the expectations of industry and to improve employability skills
22UBC4N2	NME - 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
21UBC519	Core - XI : Java Programming				✓	It is primarily used for Internet-based applications.
21UBC520	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
21UBC5E1	Core Elective - I : Networks				✓	Interconnects the people and companies across the world.
21UBC5E2	Core Elective - I : Grid Computing			✓		It provides Collaborative computing support.

21UBC5E3	Core Elective - I : Data Science				✓	Students are recruited for most highly paid jobs
21UBC521	Core Lab - IX: Java Programming				✓	It is used for creating internet based applications.
21UBC522	Core Lab - X : Software Testing				✓	To identify any errors, gaps or missing requirement versus the actual requirement.
21UBC523	Project	✓				Project allows the students to study, do research and act by themselves using their abilities, interests, personal experience and aptitudes.
21UBC5S1	Skill Based Elective – I: Mobile Phone Services				✓	Business and personal use.
21UBC5S2	Skill Based Elective – I: Internet of Things				✓	To know about physical objects that is embedded with sensors.
21UBC624	Core - XIII :Python Programming				✓	Faster growing, easily written and executed much faster than other programming language, highly demand for job
21UBC625	Core - XIV : Mobile Application Development		✓	✓		Hiring more mobile app developers by the enterprises are increased day by day
21UBC6E1	Core Elective - II : Storage Management				✓	Provides a comprehensive learning on storage technology
21UBC6E2	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
21UBC6E3	Core Elective - II : Information Security				✓	Everything is online and information security is more important, exciting job opportunities
21UBC6E4	Core Elective – III: Data				✓	Very popular to analyze and explore the data in many

	Mining And Warehousing					different sectors of business
21UBC6E5	Core Elective – III: Cloud Computing				✓	Future of computing is cloud based computing, More user friendly and affordable
21UBC6E6	Core Elective – III: Nano Computing		✓			Rapidly developing field, able to work in one of the fastest growing occupations
21UBC626	Core Lab - XI : Python Programming				✓	Faster growing, easily written and executed much faster than other programming language
21UBC627	Core Lab - XII : Mobile Application Development				✓	Hiring more mobile app developers by the enterprises are increased day by day
21UBC6S3	Skill Enhancement Course (SEC) IV: Naan Mudhalvan : Interview Readiness				✓	Essential to learn about the operations of the Corporate industry and prepare themselves to meet their requirement.
21UBC6S4	Skill Enhancement Course (SEC) IV: Naan Mudhalvan : A 360° Interview Preparation Course				✓	Mandatory for everyone to sustain and survive in the field

HoD

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