

Nallamuthu Gounder Mahalingam College

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

UG DEPARTMENT OF COMPUTER PPLICATIONS						
Programme: BCA					Year: 2019	
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	Core 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	Core 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
18UBC307	Core - V :Relational Database Management System And Oracle				✓	It is possible to store complex business models in a relational database.
18UBC308	Core - VI : Shell Programming in Operating Systems				✓	It allows communicating with the computer without knowing how to speak the computer's language.
18UBC309	Core - VII :Data Structures and Algorithms	✓	✓	✓		It helps to understand the structure and logic of the programming concepts.
18UBC3A3	Allied - III :Accountancy For Decision Making		✓			To know financial transactions of a business.
18UBC310	Programming Lab - III : Relational Database Management System And Oracle				✓	Gains Practical experience for data storage in order to perform complex business applications.
18UBC311	Programming Lab - IV : OS Commands and Shell Script Programming				✓	Provides Problem-Oriented Learning.
18UBC312	Core Lab - V : DTP Programming	✓				It is used to create documents like leaflets, brochures and newsletters.
18UBC3N1	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.
18UBC3N2	Non Major Elective - I : DTP Programming	✓				It is used to create documents like leaflets, brochures and newsletters.

18UBC413	Core - VIII :Framework Technologies				✓	Web technology concepts are required for developing web applications
18UBC414	Core - IX :Introduction to Web Designing and programming				✓	1) Can learn in a short period of time. 2) Need limited skills. 3) Freelancing projects can be done.
18UBC415	Core - X :Software Engineering		✓	✓		To gain the knowledge to solve the software and system challenges with a comprehensive set of skills
18UBC4A4	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.
18UBC416	Programming Lab - VI: Web Development				✓	Reliable, fast, easy and open source framework to develop dynamic, rich web sites and web applications
18UBC417	Programming Lab - VIII: Web Designing				✓	Designing a web site is most essential in every sector which reflects in better business and revenue
18UBC418	Programming Lab - VII : PHP Programming				✓	Extensively used for building web applications, web sides, cloud computing and machine learning also.
18UBC4N3	Non Major Elective - II : Open Source Software Lab	✓				To understand the expectations of industry and to improve employability skills
18UBC4N4	Non Major Elective – II: 2-D Animation Lab	✓				Every promotion in industry is closely related to animation. Due to its extensive and ever expanding field, animators are highly demanded persons

17UBC519	Framework Technologies				✓	Web technology concepts are required for developing web applications
17UBC520	Software Testing		✓			It provides the opportunity and knowledge for a client to develop and strengthen the necessary skills to advance in a chosen area
17UBC521	Elective - I Networks				✓	Interconnects the people and companies across the world.
17UBC522	Elective –II: Organizational Behaviour	✓	✓	✓		It helps to understand one’s own behaviors, attitudes, ethical views, and performance.
17UBC523	Programming Lab - IX: Framework Technologies				✓	Web technology concepts are required for developing web applications
17UBC524	Programming Lab - X : Software Testing				✓	To identify any errors, gaps or missing requirement versus the actual requirement.
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.
17UBC5S1	Skill Based Elective – I Software Analysis and Design	✓	✓	✓	✓	To gain the knowledge to solve the software and system challenges with a comprehensive set of skills
17UBC5S2	Skill Based Elective – I E-Commerce	✓	✓	✓	✓	To know about commercial terms, organizations and websites
17UBC5S3	Skill Based Elective – I Aptitude	✓	✓	✓	✓	It is used to train the students to get ready for their future and write competitive exams
17UBC625	Advanced Java Programming				✓	Faster growing, easily written and executed much faster than other programming language, highly demand for job
17UBC626	Data Mining And Warehousing				✓	Very popular to analyze and explore the data in many different sectors of business
17UBC627	Information Security				✓	Everything is online and information security is more important, exciting job opportunities

17UBC628	Elective-III: 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
17UBC629	Programming Lab - XI : Advanced Java Programming				✓	Faster growing, easily written and executed much faster than other programming language
17UBC630	Programming Lab - XII : Graphics and Multimedia				✓	Hiring more graphics developers by the enterprises are increased day by day
17UBC6S4	Skill Based Elective - II: Software Industry Domains		✓			Essential to learn about the operations of the Corporate industry and prepare themselves to meet their requirement.
17UBC6S5	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
17UBC6S6	Skill Based Elective - II: Soft Skills				✓	Mandatory for everyone to sustain and survive in the field



HoD

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