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A Don Bosco Institution of Higher Education, Founded in 1951 \* Affiliated to Thiruvalluvar University, Vellore \* Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

Name of the	<b>Course Code</b>	Name of the	<b>Activities with direct</b>	Year of
Course		Program	bearing on	introduction
			Employability/	
			Entrepreneurship/	
			Skill development	
D: : 11	CA 107	D.C.A		2021 22
Digital Logic	CA107	BCA	T 1 1994	2021-22
Fundamentals			Employability:	
			Content - Input Unit,	
			Output Unit, Memory	
			Unit, IC Logic	
			Families, Registers	
			and Counters	
			Activities:	
			Visualization of	
			Input, Output and	
			Storage devices with	
			its purpose and	
			features, Brain	
			Storming	
			Assignments, Quiz.	
Internet	CA108	BCA		2021-22
Concepts and	C/1100	ВСП	Employability:	2021 22
Web Design			Content - Web Page	
Web Design			Creation, Layout	
			webpages CSS &	
			Javascript.	
			Activities - Exercise	
			to create a webpage	
			using html Elements,	
			Exercises to improve	
			programming skills.	

Practical I: Internet Concepts and Web Design	PCA104	BCA	Employability: Content - Web Page Creation, Layout webpages CSS & Javascript. Activities - Exercise to create a webpage using html Elements, Exercises to improve programming skills.	2021-22
Programming with C	CA207	BCA	Employability: Content - Introduction, Arrays, Functions, Pointers Activities: Exercise to create programs using arrays, Working with the concepts of functions and pointers.	2021-22
Operating System	CA208	BCA	Employability: Content -Process Management, & scheduling, Main- memory management. Activities - Improved Class performance using blended learning, Experiential Learning thru' applications to real life situation	2021-22
Practical - II: Programming with C	PCA204	BCA	Employability: Content - Data Types, Working with Arrays, Functions, Pointers, Control	2021-22

			Structures, Files Activities: Demonstration on the utilization of data types, Compling programs on decision making statements, Proficiency in controlling looping statements.	
Computer Networks	CA312	BCA	Employability: Content - Network layer, IP addresses, DHCP, Network types, Client server programming, DNS and TELNET. Activities: Configuring IP addresses to local computers, Exercises to communicate between client and server.	2021-22
Programming with Java	CA313	BCA	Employability: Content - Basic Concepts, Classes and objects, packages, exception handling and threading, Applets and Awt, SWING. Activities: Exercise to create one class and multiple objects, Creating user defined packages and access the packages, Exercises to develop web page.	2021-22

Data Structures using C	CA314	BCA	Employability: Content - Basic Concepts, Arrays & Stacks and Queues, Linked Lists, Graphs Activities - Exercise to learn the concepts of linear and non	2021-22
Discipline Specific Elective I - Angular JS	CA315A	BCA	Employability: Content - MVC, Views and Bootstrap, SEO Activities - Demonstrate about MVC model to construct the application using Bootstrap and SEO.	2021-22
Discipline Specific Elective I - Object Oriented Analysis and Design	CA315B	BCA	Employability: Content - System Analysis and Design Activities - Exercise to create a UML diagrams based on requirements	2021-22
Discipline Specific Elective I: System Analysis and Design	CA315C	BCA	Employability: Content - Software development, testing and deployment Activities - Exercise to test existing software with open source testing tools, seminars and assignments on quality assurance.	2021-22

Practical III:	PCA306	BCA		2021-22
Data Structures using C	rCA300	BCA	Employability: Content - Trees and Graphs Activities - Demonstrate on realtime applications using trees and graphs.	2021-22
Practical - IV: Programming with Java	PCA307	BCA	Employability: Content - Class and	2021-22
			Objects, Constructor, Inheritance and Interface, Exception handling, Applets and SWING.	
			Activities: Exercise to create one class and multiple objects, Creating user defined packages and access	
			the packages, Exercises to develop web page.	
Software Engineering	CA412	BCA	Employability: Content - Architectural design,Risk management and Re engineering. Software Process and Requirements model. Activities - Software Cost Estimation,Software Requirements, Software Design and Implementation	2021-22

Enterprise	CA413	BCA		2021-22
Applications using .NET			Employability: Content - Windows and Web Forms, Data Access Activities - Exercise to create a webforms using web controls, Demonstration on access the database and performing CURD operations	
Relational Database Management System	CA414	BCA	Employability: Content - Basic Concepts, Data Model , SQL Query Language Activity: Exercises to improve SQL query skills, Creating databases using DDL Statements, Assignment and Discussions on data models.	2021-22
Emerging Computing Paradigms	CA415	BCA	Employability: Content - Commerce Architecture, BlockChain, Crypto Currency, CMS (Content Management System) Activities: Case Studies to understand Block Chain, Video lectures about recent tools, installation guidelines, program development using CMS and NoSQL databases, Quiz	2021-22

Practical - V: Enterprise Applications using .NET	PCA406	BCA	Employability: Content - ASP.NET Applications with Database Activities - Demonstrate on creating web applications with CRUD operations	2021-22
Practical – VI : Relational Database Management System	PCA407	BCA	Employability: Content - DDL, DML, TCL queries, join operations, aggregate functions. Activity: Demonstration on DDL,DML TCL queries, Hands-On Training on join operations.	2021-22
Software Testing and Quality Assurance	CA514	BCA	Employability: Content - Static Testing, Black Box Testing, White Box Testing Activities: Identify the scope, risks and objectives of Static, Black Box and White Box testing.	2021-22
Computer Graphics	CA515	BCA	Employability: Content - 2D Transformations, 3D Transformations Activities: Collection of the skills related to 2D transformations	2021-22

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			and 3D transformations.	
			transformations.	
Enterprise	CA516	BCA		2021-22
Applications			<b>Employability:</b>	
using JAVA			<b>Content -</b> Software	
			development using	
			Servlets and JSP	
			Activities - problem	
			solving using JSP and	
			servlets	
Programming	CA517	BCA		2021-22
with Python			<b>Employability:</b>	
			<b>Content -</b> Python	
			IDE and developing	
			APIs with GUI	
			<b>Activities - Working</b>	
			with Python IDE and	
			developing APIs with	
			GUI	
Practical - VII:	PCA505	BCA		2021-22
Enterprise			<b>Employability:</b>	
Applications			<b>Content -</b> Software	
using JAVA			development using	
			Servlets and JSP	
			Activities - problem	
			solving using JSP and	
			servlets	
Practical - VIII	PCA506	BCA		2021-22
: Programming			<b>Employability:</b>	
with Python			Content -	
			Developing Python	
			APIs and services	
			Activities - Working	
			with Python IDE and	
			developing APIs with GUI	
Non Major	NCA504	BCA		2021-22
Elective - I:			<b>Employability:</b>	
Introduction to			Content - Computer	
			Language	

Information			Activities - Teaching	
Technology			the basic concepts of	
			programming skills	
Cloud	CA612	BCA		2021-22
Computing			<b>Employability:</b>	
			Content -	
			Virtualization, Cloud	
			Computing	
			Architecture,	
			SaaS,PaaS and IaaS.	
			Activities: Accessing	
			different services	
			provided by cloud,	
			Deployment of	
			applications and	
			management of user	
			data.	
Mobile	CA613	BCA		2021-22
Application			<b>Employability:</b>	
Development			Content - Android -	
			Activities, Intends,	
			Fragments, Views &	
			View Groups,	
			Handling pictures,	
			menus, notifications	
			and SMS, Telephony,	
			Emails using Android	
			Activities:	
			Demonstrations,	
			Exercise to create	
			Mobile Apps,	
			Problem Solving and Quiz.	
			Quiz.	
Web	CA614	BCA		2021-22
Programming			<b>Employability:</b>	
using PHP			Content - Control	
			Structures, Arrays,	
			Built-in Functions,	
			Form Handling,	
			Cookies, Session,	
			Filters, MySQL	
			Database with PHP	
			<b>Activities -</b> Exercise	

			to create dynamic web pages, Problem Solving, Demonstrations and Quiz.	
Discipline Specific Elective II: Big Data Analytics	CA615A	BCA	Employability: Content - NoSQL Database management, R Programming Basics, Data Visualization using R and Statistical Analysis with R. Activities: Demonstration on NoSQL databases and R Programs, Exercises using NoSQL database tools and R libraries, Problem Solving and Quiz	2021-22
Discipline Specific Elective II: Cryptography and Network Security	CA615B	BCA	Employability: Content - Security services and mechanisms, Network Security, Virtual private network and dealing with viruses. Activities: Discover how networks work, Network Scavenger Hunt, identiying protocols throughout the day, find out what malware is there in device.	2021-22

Discipline Specific Elective II: Internet of Things	CA615C	BCA	Employability: Content - Data Analystics with IOT Activities - Working with streaming data and analytical methods	2021-22
Practical IX - Mobile Application Development and PHP	PCA607	BCA	Employability: Content - Mobile Apalications with various domains, Cookies, Session, Filters, Form Handling & Validation, File Handling, File Uploading, Emails, MySQL database with PHP. Activities - Exercise to create Mobile Apps and Dynamic Web Pages, Problem Solving, Observation, Demonstrations, Applications to real life situations.	2021-22
Project Work	PCA608J	BCA	Employability: Content - Developing the Projects with different domains Activities - Exercise to create Dynamic Appliactions(Website, APP), Demonstrations of Applications, Applications to real life situations.	2021-22

CRITERION I NAAC 5th CYCLE

Non Major	NCA604	BCA		2021-22
Elective - II:			<b>Employability:</b>	
Multimedia			Content - Editing	
			with Images, Sounds,	
			Videos and Texts,	
			Making Animations	
			Activities -	
			Demonstration on	
			working with images,	
			audio, video and text	
			contents	

CRITERION I NAAC 5th CYCLE