Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women (Autonomous)

Owned and Managed by Cork Industries Charities Trust
Affiliated to University of Madras - Re-Accredited with 'A+' Grade by NAAC
Chromepet Chennai-600044

57 YEARS

BACHELOR OF COMPUTER APPLICATIONS

(Shift – II)

CHOICE BASED CREDIT SYSTEM (CBCS)

&

LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK (LOCF)

2024 - 2027 Batch

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57
YEARS

PROGRAMME OUTCOMES (PO)

After completion of the programme, the student will be able to

PO1	Develop sharp cognizance of concepts, apply the domain knowledge with utmost confidence and be assertive at any given opportunity.
PO2	Possess deeper understanding of life skills to appraise life and draw logical conclusions.
PO3	Design and develop solutions for challenging problems of society.
PO4	Acquire programme centric thought process facilitating further studies in the respective domain.
PO5	Engage in life-long learning to easily adapt to the dynamic environment and obtain clarity and preparedness for field specialization.
PO6	Self actualize and self regulate, focusing on ethical and moral values to become a compassionate human being.

PROGRAMME SPECIFIC OUTCOMES (PSO)

The students at the time of graduation will

PSO1	Attain the ability to understand the basic principles and concepts to acquire knowledge of mathematical foundations and computer applications.
PSO2	Ability to adopt the rapid changes in tools and technology and to explore technical skills in diverse areas of computer applications.
PSO3	Explore technical comprehension in varied areas of computer applications and experience a conducive environment in cultivating skills for thriving career and higher studies.

CURRICULUM 2024 – 2027

![Shrimathi Devkunvar Nanalal Bhatt Vaishnav College logo] **Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women (Autonomous)**
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CURRICULUM 2024 – 2027 Batch

SEM	PART	COURSE COMPONENT	COURSE CODE	TITLE OF THE PAPER	CREDITS	LECTURE HOURS TH	LECTURE HOURS PR	CIA	ESE	TOTAL
I Year - Semester I	I	Foundation Course	22ULTFC1001/ 22ULHFC1001/ 22ULSFC1001/ 21ULFFC1001	Tamil –I/ Hindi –I/ Sanskrit-I/ French-I	3	6		40	60	100
	II	Foundation Course	20UGEFC1001	General English -I	3	6		40	60	100
	III	Core Theory - I	22UCACT1001	Programming in C and C++	4	4		40	60	100
		Core Practical-I	22UCACP1001	Programming in C and C++ Lab	2		3	40	60	100
		Core Practical-II	20UCACP1002	Web Designing Lab	2		3	40	60	100
		Allied Theory - I	20UCAAT1001/ 24UCAAT1001	Allied Mathematics-I	5	6		40	60	100
	IV	Life Skill	23USSEC1001	Effective Communication Skills	2	2		50	-	50
		Bridge Course	Quantitative Aptitude	Criteria: only students those who have completed Quants is eligible to take up ESE.						
				Total	**21**					**650**
I Year - Semester II	I	Foundation Course	22ULTFC2002 22ULHFC2002 22ULSFC2002 21ULFFC2002	Tamil –II/ Hindi –II/ Sanskrit-II/ French-II	3	6		40	60	100
	II	Foundation Course	20UGEFC2002	General English -II	3	6		40	60	100
	III	Core Theory - II	24UCACT2002	Data Structures	4	2		40	60	100
		Core Theory - III	24UCACT2003	Python Programming	2	2				
		Core Practical-III	24UCACP2003	Data Structures Lab	2		3	40	60	100
		Core Practical-IV	24UCACP2004	Python Programming Lab	2		3	40	60	100
		Allied Theory - II	24UCAAT2002	Mathematics Foundations to Computer Science-	5	6		40	60	100

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				II					
	IV	Life Skill	24USKHV2002	Universal Human Values	2			50	-	50
		Value Education	24UESVE2001	Environmental Studies	2			50	-	50
			20UYGVE2002	Yoga and Wellness	2	2		50	-	50
II Year - Semester III	**III**	Core Theory - IV	25UCACT3004	Programming in Java	3	5		40	60	100
		Core Theory - V	25UCACT3005	Cloud Computing	4	5		40	60	100
		Core Theory - VI	25UCACT3006	Operating System	4	4		40	60	100
		Core Practical-V	23UCACP3005	Java Programming Lab	2		4	40	60	100
		Core Practical-VI	23UCACP3006	Accounting Software and data Analytics Lab	2		4	40	60	100
		Allied III	20UCACT3003	Financial Accounting	5	6		40	60	100
	IV	Non Major Elective-I	20UCANE3001	Introduction to Cyber Security	2	2		50	-	50
II Year - Semester IV	**III**	Core Theory - VII	25UCACT4007	Machine Learning	4	5		40	60	100
		Core Theory –VIII	25UCACT4008	Relational Database Management System(RDBMS)	3	5		40	60	100
		Core Theory -IX	25UCACT4009	Data Visualization	4	4		40	60	100
		Core Practical-VII	20UCACP4007	RDBMS Lab	2		4	40	60	100
		Core Practical-VIII	25UCACP4008	Digital Media Design and Development Lab	2		4			
		Allied IV	20UCAAT4004	Cost and Management Accounting	5	6		40	60	100
	IV	Non Major Elective-II	20UCANE4002	Introduction to Cyber Security	2	2		50	-	50
		Life Skill	23USKLM4003	Leadership and Management Skills	2	-		50	-	50

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		Student Progression Bodies	23USP_4001	Students Progression Activities	2	-		NA	-	--

II YEAR

SEMESTER -IV

PART -IV

S.No	Student Progression Bodies	Credits
1.	Student Progression Activities 1. Anti Drug Club 2. Career Guidance Cell 3. Child Rights Club 4. Coding Club 5. Languages Debate Club 6. Book Club 7. Environ Club 8. Humour Club 9. Quiz Club 10. Theatre Club 11. Cross Literary Awareness Cell 12. Capacity Building Center 13. Consumer Club 14. Cyber Awareness Cell 15. Electoral literacy Club 16. Outreach Club 17. Standards Club 18. Women Rights Forum 19. Yuva Tourism Club 20. Social Media Hub 21. Ability to access Cell 22. Unnat Bharat Abhiyan Cell	**2**

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57 YEARS

SEMESTER III & IV

NON MAJOR ELECTIVE FOR OTHER DEPARTMENTS

INTRODUCTION TO CYBER SECURITY

Course code: 20UCANE3001 & 20UCANE4002   **Total Hours:**30

Credits: 2   **L – T – P :**1-1-0

Syllabus

Unit-1: Introduction to Cyber Crime - Classification of Cyber Crimes –Reasons for commission of Cyber Crimes.

Unit-2: Malware and Its Types - Kinds of Cyber Crimes.

Unit-3: Cyber Security Techniques - Firewall and its uses.

Reference Link:1.http://uou.ac.in/sites/default/files/slm/Introductioncyber-