

DEPARTMENT OF COMPUTER APPLICATIONS

BCA

CHOICE BASED CREDIT SYSTEM (CBCS)

&

LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK (LOCF)

2023 - 2026 Batch





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

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.





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CURRICULUM 2023 - 2026 Batch

		COURSE	COURSE CODE	TITLE OF THE	CREDIT	LEC.	TURE JRS	CIA	ESE	TOTAL
SEM	PART	COMPONENT		PAPER	S	TH	PR			
	I	Foundation Course	22ULTFC1001/ 22ULHFC1001/ 22ULSFC1001/ 21ULFFC1001	Tamil –I/ Hindi –I/ Sanskrit-I/ French-I	3	6		40	60	100
ı	II	Foundation Course	20UGEFC1001	General English -I	3	6		40	60	100
Ye ar		Core Theory -I	22UCACT1001	Programming in C and C++	4	4		40	60	100
Se m		Core Practical-I	22UCACP1001	Programming in C and C++ Lab	2		3	40	60	100
es te		Core Practical-II	20UCACP1002	Web Designing Lab	2		3	40	60	100
rl			Allied Theory -	20UCAAT1001	Allied Mathematics-I	5	6		40	60
	IV	Soft Skill I	23USSEC1001	Soft Skills - Essentials of Communication Skills	2	2		50	-	50
	Total									650
	I	Foundat ion 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
I Ye ar - Se m es te r II		Core Theory -II	23UCACT2002	Data Structures and Algorithms using Python	4	4		40	60	100
		Core Practical-III	23UCACP2003	Data Structures and algorithm using Python Lab	2		3	40	60	100
		Core Practical-IV	20UCACP2004	UNIX Lab	2		3	40	60	100
		Allied Theory - II	20UCAAT2002	Allied Mathematics-II	5	6		40	60	100





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			20UESVE2001	Environmental	2			50	_	50
		Value	20023722001	Studies						
	IV	Education	20UYGVE2002	Yoga and Wellness	2			50	-	50
			23UUHVE2003	Universal Human Values	2	2		50	-	50
				Total	25					750
		Core Theory -III	23UCACT3003	Programming in Java	4	5		40	60	100
II		Core Theory - IV	23UCACT3004	Cloud Computing	4	5		40	60	100
Ye ar		Core Theory -V	23UCACT3005	Fundamentals of Machine Learning	4	4		40	60	100
Se m	l III	Core Practical-V	23UCACP3005	Java Programming Lab	2		4	40	60	100
es te r		Core Practical-VI	23UCACP3006	Accounting Software and data Analytics Lab	2		4	40	60	100
III		Allied III	20UCACT3003	Financial Accounting	5	6		40	60	100
	IV	NME I	20UCANE3001	Introduction to Cyber Security	2	2		50	-	50
				Total	23					650
		Core Theory -VI	24UCACT4006	Computer Architecture	4	6		40	60	100
II		Core Theory –VII	23UCACT4007	Relational Database Management System(RDBMS)	4	5		40	60	100
Ye ar -	III	Core Theory -VIII	23UCACT4008	Data Visualization	4	6		40	60	100
Se m es te r		Core Practical-VI I	20UCACP4007	RDBMS Lab	2		5	40	60	100
		Allied IV	20UCAAT4004	Cost and Management Accounting	5	6		40	60	100
	lv-	NME II	20UCANE4002	Introduction to Cyber Security	2	2		50	-	50





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		Life Skills 3	23ULSLM4003	Leadership and Management Skills	2	-		-	-	-
		Student Progressio n Bodies	23USP_4_1	Students Progression Activities	2	-		-	-	-
				Total	25					550
		Core Theory -IX	23UCACT5009	Operating System	4	5		40	60	100
		Core Theory –X	20UCACT5010	Programming in PHP and MYSQL	4	5		40	60	100
		Core Theory –XI	20UCACT5011	Software Engineering and Testing	4	5		40	60	100
Ye ar - Se m	"	Core Practical-VI II	23UCACP5008	PHP and MYSQL Lab	2		4	40	60	100
		Core Practical-IX	23UCACP5009	Node JS Lab	2		4	40	60	100
es te		Elective I – Theory Coursera	24UCAET5A01/ 24UCAET5B01	Data mining / Internet of Things	5	5		40	60	100
r V	IV	Skill Based Elective	23USSSB5SM3	SWAYAM-MOOC / NPTEL	3	2		50	-	50
		Life Skill- 4	23ULSPF5004	Professional Skills	2			50	-	50
		Ability Enhancem ent-1	23UAE5001	Spoken Tutorial LaTex	2			50	-	50
				Total	28					750
		Core Theory-XII	20UCACT6012	Web Technology	4	6		40	60	100
III Ye ar	III	Core Theory-X1I I	23UCACT6013	Data Communication and Network	4	6		40	60	100
Se m es te r VI		Core Practical-X	23UCACP6010	Web Technology Lab	2		5	40	60	100
		Elective II -Theory Coursera	24UCAET6A02/ 24UCAET6B02	Security in Information Technology /Computer Graphics	5	5		40	60	100





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		Elective III - Project	20UCAPR6001	Mini Project	5	6	40	60	100
		Skill Enhancem ent	23USSSE6CR4	Coursera	3	2	50	ı	50
	IV	Ability Enhancem ent-2 (Coursera)	23UAECS6002	Essential of Computing Skill	2		50	ı	50
		Skill Enhancem ent	23UAD6001	Add on Courses	2		50	-	50
	v	Extra Curricular Activity	XSP	Sports	1		-	-	-
				Total	28				650
				GRAND TOTAL	150				4000

^{*} Spoken Tutorial- LMS course offered from IIT Mumbai

List of Electives:

- 1. Resource Management Techniques
- 2. Internet of Things
- 3. Artificial Intelligence
- 4. Security in Information Technology
- 5. Computer Graphics
- 6. Data Mining

^{*} Coursera- LMS course offered from Coursera