

UCA 1
KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)
COIMBATORE – 641 029

*Course Name: Computer Applications

Curriculum and Scheme of Examination under CBCS

(Applicable to the students admitted during the Academic Year 2023-2024)

Semester	Part	Subject Code	Title of the Paper	Instruction hours/cycle	Exam. Marks			Duration of Exam (hours)	Credits
					CI A	ES E	TO TAL		
I	I	23TML101	Language I@	6	25	75	100	3	3
	II	23ENG101	English -I	6	25	75	100	3	3
	III	23UCA101	Core Paper 1 - C Programming	5	25	75	100	3	4
	III	23UCA1CL	Core Practical 1 - C Programming Lab	5	40	60	100	3	3
	III	23UCA1A1	Allied Paper 1 – Business Accounting	6	25	75	100	3	5
	IV	23EVS101	Environmental Studies **	2	-	50	50	3	2
	Total			30	-	-	550	-	20
II	I	23TML202	Language II@	6	25	75	100	3	3
	II	23ENG202	English –II	6	25	75	100	3	3
	III	23UCA202	Core Paper 2 - Object Oriented Programming with C++	5	25	75	100	3	4
	III	23UCA2CM	Core Practical 2- Object Oriented Programming with C++ Lab	5	40	60	100	3	3
	III	23UCA2A2	Allied Paper 2 – Mathematics I	6	25	75	100	3	5
	IV	23VED201	Value Education- Moral and Ethics**	2	-	50	50	3	2
	Total			30	-	-	550	-	20
III	I	23TML303	Language III@	6	25	75	100	3	3
	II	23ENG303	English –III	6	25	75	100	3	3
	III	23UCA303	Core Paper 3 - Data Structures with Java Programming	4	25	75	100	3	5
	III	23UCA3CN	Core Practical 3 - Data Structures with Java Programming Lab	4	40	60	100	3	4
	III	23UCA3A3	Allied Paper 3 – Mathematics II	6	25	75	100	3	5
	IV	23UGC3S1	Skill Based subject 1- Cyber Security	2	100	-	100	3	3
	IV	23TBT301/ 23TAT301/ 23UHR3N1	Basic Tamil* / Advanced Tamil**/ Non-major elective-I**	2	-	75	75	3	2
	Total			30	-	-	675	-	25

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IV	I	23TML404	Language IV@	6	25	75	100	3	3
	II	23ENG404	English –IV	6	25	75	100	3	3
	III	23UCA404	Core Paper 4 - .Net Framework with Oracle	4	25	75	100	3	4
	III	23UCA4CO	Core Practical 4 - .Net Framework with Oracle Lab	5	40	60	100	3	3
	III	23UCA4A4	Allied Paper 4 – Distributed Operating System	5	25	75	100	3	5
	IV	23UCA4SL	Skill Based subject 2- Linux Programming Lab	2	40	60	100	3	3
	IV	23TBT402/ 23TAT402/ 23UWR4N2	Basic Tamil* / Advanced Tamil**/ Non-major elective- II**	2	-	75	75	3	2
	Total			30	-	-	675	-	23
V	III	23UCA505	Core Paper 5 - Software Engineering	6	25	75	100	3	4
	III	23UCA506	Core Paper 6 - Data Mining with R Programming	6	25	75	100	3	4
	III	23UCA507	Core Paper 7 - Artificial Intelligence and Expert Systems	6	25	75	100	3	4
	III	23UCA5CP	Core Practical 5 - Data Mining with R Programming Lab	5	40	60	100	3	3
	III	23UCA5E1	Major Elective 1	5	25	75	100	3	5
	IV	-	EDC	2	100	-	100	3	3
	-	23UCA5IT	Internship Training *****	Grade					
	Total			30	-	-	600	-	23
VI	III	23UCA608	Core Paper 8 - Web Designing	5	25	75	100	3	4
	III	23UCA609	Core Paper 9 – Python Programming	5	25	75	100	3	4
	III	23UCA610	Core Paper 10 – Data Science	5	25	75	100	3	4
	III	23UCA6CQ	Core Practical 6 - Web Designing Lab	6	40	60	100	3	3
	III	23UCA6E2	Major Elective 2	5	25	75	100	3	5
	III	23UCA6Z1	Project and Viva Voce***	4	20	80	100	-	5
	IV	23UCA6SM	Skill Based subject 3- Python Programming Lab	2	40	60	100	3	3
	Total			30	-	-	700	-	28
V		23NCC \$/NSS/YRC /PYE/ECC/R RC/ WEC101#	Cocurricular Activities*	-	50	-	50	-	1
Grand Total				-	-	-	3800	-	140

Note :

CBCS – Choice Based Credit system, CIA– Continuous Internal Assessment, ESE– End of Semester Examinations

\$ For those students who opt NCC under Cocurricular activities will be studying the prescribed syllabi of the UGC which will include Theory, Practical & Camp components. Such students who qualify the prescribed requirements will earn an additional 24 credits.

@ Hindi/Malayalam/ French/ Sanskrit – 23HIN/MLM/FRN/SAN101 - 404

* - No End-of-Semester Examinations. Only Continuous Internal Assessment (CIA)

**- No Continuous Internal Assessment (CIA). Only End-of-Semester Examinations (ESE)

*** Project Report – 60 marks; Viva voce – 20 marks; Internal-20 marks. Project 4 hours will not include in the staff Work load.

**** The students shall undergo Internship training / field work for a minimum period of 14 working days at the end of the fourth semester during summer vacation and submit the report in the fifth semester which will be evaluated for 100 marks by the concerned guide and followed by an Internal Viva voce by the respective faculty or HOD as decided by the department. According to their marks, the grades will be awarded as given below.

Marks %	Grade
85 – 100	O
70 – 84	D
60 – 69	A
50 – 59	B
40 – 49	C
< 40	U (Reappear)

Major Elective Papers (2 papers are to be chosen from the following 6 papers)

1. Multimedia System
2. Internet of Things
3. Software Project Management
4. Fuzzy logic
5. Information Security
6. Block Chain

Non-Major Elective Papers

1. Human Rights
2. Women's Rights
3. Consumer Affairs

Sub. Code & Title of the Extra Departmental Course (EDC) :

23UCA5XL – Internet and Office Automation

List of Cocurricular Activities:

1. National Cadet Corps (NCC)
2. National Service Scheme (NSS)
3. Youth Red Cross (YRC)
4. Physical Education (PYE)
5. Eco Club (ECC)
6. Red Ribbon Club (RRC)
7. Women Empowerment Cell (WEC)

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Note: In core/ allied subjects, no. of papers both theory and practical are included wherever applicable. However, the total credits and marks for core/allied subjects remain the same as stated below.

Tally Table:

S.No.	Part	Subject	Marks	Credits
1.	I	Language – Tamil/Hindi/Malayalam/ French/ Sanskrit	400	12
2.	II	English	400	12
3.	III	Core – Theory/Practical	1600	60
	III	Allied	400	20
		Electives/Project	300	15
4.	IV	Basic Tamil / Advanced Tamil (OR) Non-major electives	150	4
		Skill Based subject	300	9
		EDC	100	3
		Environmental Studies	50	2
		Value Education	50	2
5.	V	Cocurricular Activities	50	1
		Total	3800	140

- 25 % CIA is applicable to all subjects except JOC, COP and SWAYAM courses which are considered as extra credit courses.
- 100 % CIA for Cyber Security and EDC paper.
- The students who complete any **MOOC On learning platforms like SWAYAM, NPTEL, Course era, IIT Bombay Spoken Tutorial etc.,** before the completion of the 5th semester and the course completion certificate should be submitted through the HOD to the Controller of Examinations. Extra credits will be given to the candidates who have successfully completed.
- An **Onsite Training** preferably relevant to the course may be undertaken as per the discretion of the HOD.
- Students who successfully complete **Naan Mudhalvan** courses in 3rd and 5th semester will be given 2 extra credits for each course. They are asked to submit the marks to Controller of Examinations through and undersigned by the HOD.

Semester	Naan Mudhalvan Course Title
III	E-commerce Application Development with Mendix
V	Data Analytics using Tableau and Siemens Insight Hub

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Components of Continuous Internal Assessment (50 Marks)

Components		Marks	Total
Theory			
CIA I	75	(75+75) converted to 30	50
CIA II	75		
Problem based Assignment**		10	
Attendance		5	
Others*		5	
Practical			
CIA Practical		(50) converted to 30	50
Observation Notebook		15	
Attendance		5	
Practical			
CIA Practical		(25) converted to 10	25
Observation Notebook		10	
Attendance		5	
Project			
Review		15	20
Regularity		5	

* Class Participation, Case Studies Presentation, Field Work, Field Survey, Group Discussion, Term Paper, Workshop/Conference Participation. Presentation of Papers in Conferences, Quiz, Report/Content writing. Etc.

** Two Assignments to be given. (Each 5 marks).

BLOOM'S TAXONOMY BASED ASSESSMENT PATTERN

(K1-Remembering; K2-Understanding; K3-Applying; K4-Analyzing; K5-Evaluating)

Theory Examination – Part I, II, III & IV (SBS only)i) CIA I & II and ESE: 75 Marks

Knowledge Level	Section	Marks	Description	Total
K1 Q1 to 10	A (Answer all)	10 x 1 = 10	MCQ	75**
K1 – K5 Q11 to 15	B (either or type)	5 x 5 = 25	Short Answers	
K2 – K5 Q16 to 20	C (either or type)	5 x 8 = 40	Descriptive / Detailed	

****For ESE 75 marks converted to 50 marks.****ESE Practical Examination:****Option 1 :**

Knowledge Level	Section	Marks	Total
K3	Experiments	45	50
K4		05	
K5	Record Work		

Knowledge Level	Section	Marks	Total
K3	Experiments	20	25
K4		05	
K5	Record Work		

ESE Project Viva Voce:**Option 1:**

Knowledge Level	Section	Marks	Total
K3	Project Report	60	80
K4		20	
K5	Viva voce		