



SOURASHTRA COLLEGE, MADURAI – 625004

(An Autonomous Institution Re-accredited with 'B+' grade by NAAC)

BACHELOR OF COMPUTER APPLICATIONS (B.C.A)

SYLLABUS(Under CBCS based on OBE)

(with effect from 2021-2022)

708

BACHELOR OF COMPUTER APPLICATIONS – COURSE STRUCTURE

SEMESTER – I

S. No.	Sub. Code	Subject Title	Hrs./ Week	Exam (Hrs.)	CA	SE	Total Marks	Credits
1.	21UACT11	Part – I: Tamil – ftpijAk; rpWfijAk;	6	3	25	75	100	3
	21UACH11	Hindi – Hindi – I						
	21UACS11	Sanskrit – Sanskrit – I						
2.	21UACE11	Part – II: English – English For Enrichment – I	6	3	25	75	100	3
3.	21UCAC11	Part – III: Core – 1:Programming in C	5	3	25	75	100	4
4.	21UCACP1	Part – III: Core – 2: Lab I: C Programming	5	3	40	60	100	4
5.	21UCAA11	Part – III: Allied – 1: Discrete Mathematics	4	3	25	75	100	4
6.	21UCAS11	Part – IV: SBS – 1: Digital Computer Fundamentals	2	3	25	75	100	2
7.	21UACVE1	Part – IV: Value Education	2	3	25	75	100	2
		TOTAL	30				700	22

SEMESTER – II

S. No.	Sub. Code	Subject Title	Hrs./ Week	Exam (Hrs.)	CA	SE	Total Marks	Credits
1.	21UACT21	Part – I: Tamil – nra;ASk; GjpdKk;	6	3	25	75	100	3
	21UACH21	Hindi – Hindi – II						
	21UACS21	Sanskrit – Sanskrit – II						
2.	21UACE21	Part – II: English – English For Enrichment – II	6	3	25	75	100	3
3.	21UCAC21	Part – III: Core – 3: Data Structures & Algorithms	5	3	25	75	100	4
4.	21UCACP2	Part – III: Core – 4: Lab – II: Data Structure using C	5	3	40	60	100	4
5.	21UCAA21	Part – III: Allied – 2:Computer Based Financial Accounting	4	3	25	75	100	4
6.	21UCAS21	Part – IV: SBS - 2 :Computer Organization & Architecture	2	3	25	75	100	2
7.	21UACES1	Part – IV: Environmental Studies	2	3	25	75	100	2
		TOTAL	30				700	22



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SEMESTER – III

S. No.	Subject Code	Subject Title	Hrs./ Week	Exam (Hrs.)	CA	SE	Total Marks	Credits
1.	21UACT31	Part – I: Tamil – fhg;gpaKk; ehlfKk;	6	3	25	75	100	3
	21UACH31	Hindi – Hindi – III						
	21UACS31	Sanskrit – Sanskrit – III						
2.	21UACE31	Part – II: English – English For Enrichment – III	6	3	25	75	100	3
3.	21UCAC31	Part – III: Core – 5: Object Oriented Programming using C++	5	3	25	75	100	4
4.	21UCACP3	Part – III: Core – 6: Lab – III: Object Oriented Programming using C++	5	3	40	60	100	4
5.	21UCAAA31	Part – III: Allied – 3: Operations Research	4	3	25	75	100	4
6.	21UCASP1	Part – IV: SBS – 3: Lab: Office Automation	2	3	40	60	100	2
7.	21UCAN31	Part – IV: NME – 1 : Introduction to Information Technology	2	3	25	75	100	2
TOTAL			30				700	22

SEMESTER – IV

S. No.	Sub. Code	Subject Title	Hrs. / Week	Exam (Hrs.)	CA	SE	Total Marks	Credits
1.	21UACT41	Part – I: Tamil – rq;f ,yf;fpaKk; mw ,yf;fpaKk;	6	3	25	75	100	3
	21UACH41	Hindi – Hindi – IV						
	21UACS41	Sanskrit – Sanskrit – IV						
2.	21UACE41	Part – II: English – English For Enrichment – IV	6	3	25	75	100	3
3.	21UCAC41	Part – III: Core – 7: Programming in Java	5	3	25	75	100	4
4.	21UCACP4	Part – III: Core – 8: Lab – IV: Java Programming	5	3	40	60	100	4
5.	21UCAAA41	Part – III: Allied – 4: Numerical Methods	4	3	25	75	100	4
6.	21UCASP2	Part – IV: SBS – 4: Lab: Multimedia	2	3	40	60	100	2
7.	21UCAN41	Part – IV: NME – 2: Web Programming	2	3	25	75	100	2
8.		Part – V: Extension Activities	–	–	–	–	100	1



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		TOTAL	30				800	23
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SEMESTER – V

S. No.	Sub. Code	Subject Title	Hrs. / Week	Exam (Hrs.)	CA	SE	Total Marks	Credits
1.	21UCAC51	Part–III–Core–9: Software Engineering	6	3	25	75	100	4
2.	21UCAC52	Part–III–Core–10: Relational Database Management System	6	3	25	75	100	4
3.	21UCACP5	Part–III–Core–11: Lab – V: Web Technology	5	3	40	60	100	4
4.	21UCAC53	Part–III–Core–12: Computer Networks	5	3	25	75	100	4
5.	Part–III : Elective – 1:		4	3	25	75	100	5
	21UCAE51	Web Technology						
	21UCAE52	Multimedia and its Applications						
	21UCAE53	Mobile Computing						
6.	21UCAS51	Part – IV: SBS – 5: Quantitative Aptitude	2	3	25	75	100	2
7.	21UCASP3	Part – IV: SBS – 6: Lab: PL/SQL	2	3	40	60	100	2
8.	21USSY51	Soft Skills(Self–Study)	–	–	–	–	100	–
		TOTAL	30				800	25

*One elective course to be chosen from THREE courses

SEMESTER – VI

S. No.	Sub. Code	Subject Title	Hrs. / Week	Exam (Hrs.)	CA	SE	Total Marks	Credits
1.	21UCAC61	Part – III: Core – 13: Programming in Python	5	3	25	75	100	4
2.	21UCACP6	Part – III: Core – 14: Lab – VI: Python Programming	5	3	40	60	100	4
3.	21UCAC62	Part – III: Core – 15: Operating System	5	3	25	75	100	4
4.	21UCACP7	Part – III:Core–16: Lab – VII: Open Source Technology(PHP)	5	3	40	60	100	4
5.	Part – III: Elective – 2:		5	3	25	75	100	5
	21UCAE61	Principles of Information Security						
	21UCAE62	Data Mining						
	21UCAE63	Unix and Shell Programming						
6.	21UCAEV1	Part – III: Elective – 3: Project Work & Viva Voce	5	3	40	60	100	5
7.	21UGKY61	General Knowledge (Self–Study)	–	–	–	–	100	–