

ALAGAPPA UNIVERSITY, KARAIKUDI
NEW SYLLABUS FOR AFFILIATED COLLEGES
UNDER CBCS PATTERN WITH EFFECT FROM 2022-23 ONWARDS
M.Sc. (Computer Science & Information Technology)
Programme Structure

S.No	Course Code	Courses	Title of the paper	T/P	Credits	Hours/ Week	Marks		
							I	E	Total
I- Semester									
1	22MCI1C1	CC	Data Structures and Algorithms	T	4	5	25	75	100
2	22MCI1C2	CC	Advanced Java Programming	T	4	5	25	75	100
3	22MCI1C3	CC	Statistical Computing	T	4	5	25	75	100
4	22MCI1P1	CC	Practical-I: Algorithms & Java Programming Lab	P	4	8	40	60	100
5	22MCI1E1/ 22MCI1E2/ 22MCI1E3	DSE-I	(A)Multimedia and its Applications (or) (B)Wireless Sensor Networks (or)(C) Cyber Security	T	4	4	25	75	100
			Library/Yoga/Counseling/ Fieldtrip			3			
					20	30	140	360	500
II -Semester									
6	22MCI2C1	CC	Advanced DBMS	T	4	4	25	75	100
7	22MCI2C2	CC	Open Source Technologies	T	4	4	25	75	100
8	22MCI2C3	CC	Compiler Design	T	4	4	25	75	100
9	22MCI2P1	CC	Practical-II: Open Source Technologies & DBMS Lab	P	4	8	40	60	100
10	22MCI2E1/ 22MCI2E2/ 22MCI2E3	DSE-II	Software Testing (or) Internet of Things (or) Cloud Services	T	4	4	25	75	100
11	-	NME-I	Non-Major Elective	T	2	3	25	75	100
	-		Library/Yoga/Counseling/ Fieldtrip			3			
	-	SLC	Self-learning course (SLC) – MOOCs				Extra credit		
					22	30	165	435	600
III-Semester									
12	22MCI3C1	CC	Data Science & Machine Learning	T	4	4	25	75	100
13	22MCI3C2	CC	Advanced Web Technology	T	4	4	25	75	100
14	22MCI3C3	CC	Distributed Operating System	T	4	4	25	75	100
15	22MCI3P1	CC	Practical-III: Web Technology and Data Science Lab	P	4	8	40	60	100
16	22MCI3E1/ 22MCI3E2/ 22MCI3E3	DSE-III	Block Chain Technology (or) Web Services (or) Digital Image processing	T	4	4	25	75	100
17	-	NME-II	Non-Major Elective	T	2	3	25	75	100
	-		Library/Yoga/Counseling/ Fieldtrip			3			
	-	SLC	Self-learning course(SLC) – MOOCs				Extra credit		
					22	30	165	435	600
IV-Semester									
18	22MCI4C1	CC	Soft Computing	T	4	4	25	75	100
19	22MCI4C2	CC	Mobile Communications	T	4	4	25	75	100
20	22MCI4C3	CC	Big Data Analytics	T	4	4	25	75	100
21	22MCI4DV/ 22MCI4PR/ 22MCI4IP		Dissertation Work / Project Work/Internship programme		14	16	50	150	200
	-		Library/Yoga/Counseling/ Fieldtrip			2			
Total					26	30	125	375	500
					90+EC		595	1605	2200

Non Major Electives (offered by the Department of CS & IT to Other Departments)

S. No.	Course Code	Courses	Title of the Course	T/P	Credit	Hours/Week	Marks		
							I	E	Total
1	22MCI2N1	NME-I	Web Technologies	T	2	3	25	75	100
2	22MCI3N1	NME-II	E- Commerce	T	2	3	25	75	100

- CC-Core Course
- DSE - Discipline Specific Elective (DSE) – Students’ Choice and it may be conducted by parallel sessions.
- NME – Non Major Elective
- SLC - Self Learning Course (SLC) - MOOCs-Voluntary basis
- T-Theory, P-Practical
- I-Internal, E-External, EC-Extra Credit

Practical Subjects:

The following list of parameters are considered for the evaluation of practical examination.

Total Marks: 100 (Internal: 40 marks, External: 60 Marks)

For Internal Marks:

i. Internal test	:	20
ii. Record Work	:	20

Total	:	40

For External Marks:

i. Aim, Procedure / Algorithm and Program	:	15
ii. Coding and Compilation	:	15
iii. Debugging	:	15
iv. Results	:	15

Total	:	60

A. Core Courses

Semester	Course Name	
1	Core1	Data Structures and Algorithms
	Core2	Advanced Java Programming
	Core3	Statistical Computing
	Core4	Algorithms & Java Programming Lab
2	Core5	Advanced DBMS
	Core6	Open Source Technologies
	Core7	Compiler Design
	Core8	Open Source Technologies & DBMS Lab
3	Core9	Data Science & Machine Learning
	Core10	Advanced Web Technology
	Core 11	Distributed Operating System
	Core12	Web Technology and Data Science Lab

4	Core13	Soft Computing
	Core14	Mobile Communications
	Core15	Big Data Analytics
	Core16	***Dissertation Work / Project work / Internship programme

B. Discipline Specific Electives

Semester	Course Name
1	Multimedia and its Applications (or) Wireless Sensor Networks (or) Cyber Security
2	Software Testing (or) Internet of Things (or) Cloud Services
3	Block Chain Technology (or) Web Services (or) Digital Image processing