

MADURAI KAMARAJ UNIVERSITY
B.Sc COMPUTER SCIENCE

Further clarification in the UG curriculum 2023 - 2024

In view of representation from various colleges, with regard to SEC1 (NME) in First year, it is clarified that as it is SEC course, it may either taken as NME if a college opts with the support of other departments or it may handle in the respective department itself. SEC may be converted to NAAN MUTHALVAN courses if need arises.

B.Sc. Computer Science Curriculum

First Year

Semester-I

Part	List of Courses	Credit	Hours per week (L/T/P)	Internal Marks	External Marks
Part-I	Language – Tamil	3	6	25	75
Part-II	English	3	6	25	75
Part-III	CC1 - Programming in C	5	5	25	75
	CC2 - Practical : Programming in C Lab	5	5	25	75
	Elective Course 1 -Discrete Mathematics – I – EC1(Annexure I) (Generic / Discipline Specific)	3	4	25	75
Part-IV	Skill Enhancement Course/ Nan Muthalvan Course - SEC-1 - Fundamentals of Information Technology (Annexure II) -(Non Major Elective)	2	2	25	75
	Foundation Course FC - Problem Solving Techniques	2	2	25	75
		23	30		

Semester-II

Part	List of Courses	Credit	Hours per week(L/T/P)	Internal Marks	External Marks
Part-I	Language –Tamil	3	6	25	75
Part-II	English	3	6	25	75
Part-III	CC3 - Data Structures and Algorithms	5	5	25	75
	CC4 - Practical: Data Structures and Algorithms Lab(C++)	5	5	25	75

	Elective Course 2 - Numerical Methods – EC2(Annexure I) (Generic / Discipline Specific)	3	4	25	75
Part-IV	Skill Enhancement Course- / Nan Muthalvan Course SEC-2 - Office Automation(Annexure II) -(Non Major Elective)	2	2	25	75
	Skill Enhancement Course / SEC-3 - Advanced Excel (Annexure II) - (Discipline Specific / Generic)	2	2	25	75
		23	30		

**Second Year
Semester-III**

Part	List of Courses	Credit	Hours per week(L/T/P)	Internal Marks	External Marks
Part-I	Language – Tamil	3	6	25	75
Part-II	English	3	6	25	75
Part-III	CC5- Python Programming	5	5	25	75
	CC6 - Practical : Python Programming Lab	5	5	25	75
	Elective Course 3 - Statistical Methods and its Application-I- EC3 (Annexure I) (Generic / Discipline Specific)	3	4	25	75
Part-IV	Skill Enhancement Course/ Nan Muthalvan Course -SEC-4 - Multimedia Systems (Annexure II) (Entrepreneurial Based)	1	1	25	75
	Skill Enhancement Course -SEC-5 - PHP Programming (Annexure II) (Discipline Specific/ Generic)	2	2	25	75
	Environmental Studies	-	1		
		22	30		

Semester-IV

Part	List of Courses	Credit	Hours per week (L/T/P)	Internal Marks	External Marks
Part-I	Language – Tamil	3	6	25	75

Part-II	English	3	6	25	75
Part-III	CC7 - Java Programming	5	5	25	75
	CC8 - Practical: Java Programming Lab	5	5	25	75
	Elective Course - EC4 - Resource Management Techniques/ Digital Logic Fundamentals (Annexure I) - (Generic / Discipline Specific)	3	3	25	75
Part-IV	Skill Enhancement Course – SEC-6 - Web Designing-(Annexure II)	2	2	25	75
	Skill Enhancement Course/ Nan Muthalvan Course - SEC-7 – Software Testing-(Annexure II)	2	2	25	75
	Environmental Studies	2	1	25	75
		25	30		

**Third Year
Semester-V**

Part	List of Courses	Credit	Hours per week (L/T/P)	Internal Marks	External Marks
Part-III	CC9 - Software Engineering	4	5	25	75
	CC10 - Database Management System	4	5	25	75
	CC11 - Practical: Database Management System Lab	4	5	25	75
	Elective Course – EC5-Operating Systems – (Annexure I) (Generic / Discipline Specific)	3	4	25	75
	Elective Course – EC6- Big Data Analytics – (Annexure I) (Generic / Discipline Specific)	3	4	25	75
	CC12 - Core /Project with Viva voce	4	5	25	75
Part-IV	Value Education	2	2	25	75
	Internship / Industrial Training (Summer vacation at the end of IV semester activity)	2	-		
		26	30		

Semester-VI

Part	List of Courses	Credit	Hours per week (L/T/P)	Internal Marks	External Marks
Part-III	CC13 - Computer Networks	4	6	25	75
	CC14 - .NET Programming	4	6	25	75
	CC15 - Practical: .NET Programming Lab	4	6	25	75
	Elective Course – EC7- Image Processing –	3	5	25	75

	(Annexure I) (Generic / Discipline Specific)				
	Elective Course – EC8- Artificial Intelligence – (Annexure I) (Generic / Discipline Specific)	3	5	25	75
Part- IV	Professional Competency Skill Enhancement Course/ Nan Muthalvan Course SEC8- Data Analytics using R Lab – (Annexure I)	2	2	25	75
Part -V	Extension Activity	1	-	-	-
		21	30		

Total Credits: 140