

MSc Software Systems (Five year Integrated)
SCHEME OF LEARNING & EVALUATION
(For the Students Admitted in the Academic Year 2025 – 2026 & Onwards)

FIRST SEMESTER											
Course Code	Title of the Course	Exam (Hrs)	Hours				Max. Marks			Credits	
			L	T	P	Total	CA	CE	Total		
PART – I											
25LAU101	Tamil I / Hindi I / French I	3	6	-	-	6	25	75	100	3	
PART – II											
25EU101	Communicative English – I Interpersonal Communication	3	6	-	-	6	25	75	100	3	
PART – III											
25SSP101	Major Course - Problem Solving and C Programming	3	4	1	-	5	25	75	100	5	
25SSP102	Major Course - Computer Organization and Architecture	3	4	-	-	4	25	75	100	4	
25SSP103	Minor Course - Calculus and its Applications (MA)	3	4	-	-	4	25	75	100	4	
25SSP104	Major Course – Practical I (C Programming Lab) [Skill Based]	3	-	-	3	3	40	60	100	1	
25SSP105	Major Course – Practical II (MS Excel Lab) [Skill Based]	3	-	-	2	2	40	60	100	1	
TOTAL			24	1	5	30	205	495	700	21	

SECOND SEMESTER											
Course Code	Title of the Course	Exam (Hrs)	Hours				Max. Marks			Credits	
			L	T	P	Total	CA	CE	Total		
PART – I											
25LAU202	Tamil II / Hindi II / French II	3	6	-	-	6	25	75	100	3	
PART – II											
25EU202	Communicative English – II Academic Communication	3	4	-	-	4	25	75	100	3	
PART – III											
25SSP206	Major Course - Object Oriented Programming with C++	3	3	1	-	4	25	75	100	4	
25SSP207	Major Course – Data Structures and Algorithms	3	3	1	-	4	25	75	100	4	
25SSP208	Minor Course – Applied Linear Algebra (MA)	3	3	1	-	4	25	75	100	4	
25SSP209	Major Course – Practical III (Object Oriented Programming with C++ Lab) [Skill Based]	3	-	-	2	2	40	60	100	1	
25SSP210	Major Course- Practical IV (Data Structures and Algorithms Lab) [Skill Based]	3	-	-	2	2	40	60	100	1	
25SSP211	Major Course – Practical V (Interactive Media Designing Lab) [Skill Based]	3	-	-	2	2	40	60	100	1	
PART – IV											
25AECU201	Ability Enhancement Compulsory Course– I (Values, Ethics, Health and Wellness for Human Excellence)	-	-	2*	-	2*	100	-	100	2	
25PSEU201	Professional Skill Enhancement – I	-	2	-	-	2	100	-	100	2	
TOTAL			21	3	6	30	445	555	1000	25	

* Out of Class Hours

THIRD SEMESTER											
Course Code	Title of the Course	Exam (Hrs)	Hours				Max. Marks			Credits	
			L	T	P	Total	CA	CE	Total		
PART – I											
25LAU303A	Tamil III / Hindi III / French III	3	4	-	-	4	25	75	100	3	
PART – II											
25EU303A	Communicative English – III Developing English Language Skills Through Literature	3	4	-	-	4	25	75	100	3	
PART – III											
25SSP312	Major Course – Database Management System Concepts	3	4	1	-	5	25	75	100	5	
25SSP313	Major Course – Programming in Java	3	3	1	-	4	25	75	100	4	
25SSP314	Minor Course – Discrete Structures and Applied Graph Theory (MA)	3	3	1	-	4	25	75	100	4	
25SSP315	Major Course – Practical VI (RDBMS Lab) [Skill Based]	3	-	-	2	2	40	60	100	1	
25SSP316	Major Course – Practical VII (Programming in Java Lab) [Skill Based]	3	-	-	3	3	40	60	100	1	
25SSP317	Major Course - Practical VIII (Computing Lab) [Skill Based]	3	-	-	2	2	40	60	100	1	
PART – IV											
25AECU302	Ability Enhancement Compulsory Course-II Environmental Studies & Sustainable Development Goals	-	2	-	-	2	100	-	100	2	
TOTAL			20	3	7	30	345	555	900	24	

FOURTH SEMESTER											
Course Code	Title of the Course	Exam (Hrs)	Hours				Max. Marks			Credits	
			L	T	P	Total	CA	CE	Total		
PART – I											
25LAU404A	Tamil IV / Hindi IV / French IV	3	4	-	-	4	25	75	100	3	
PART – II											
25EU404	Communicative English – IV English for Career	3	4	-	-	4	25	75	100	3	
PART – III											
25SSP418	Major Course - Programming in Python	3	4	-	-	4	25	75	100	4	
25SSP419	Major Course – Operating System Concepts	3	4	1	-	5	25	75	100	5	
25SSP420	Minor Course – Probability and Statistics (ST)	3	3	1	-	4	25	75	100	4	
25SSP421	Major Course - Practical IX (Programming in Python Lab) [Skill Based]	3	-	-	3	3	40	60	100	1	
25SSP422	Major Course – Practical X (Operating System Concepts Lab) [Skill Based]	3	-	-	2	2	40	60	100	1	
PART – IV											
25SECU401	Skill Enhancement Course – I Information Security	-	2	-	-	2	100	-	100	2	
25PSEU402	Professional Skill Enhancement – II	-	2	-	-	2	100	-	100	2	
TOTAL			23	2	5	30	405	495	900	25	
Students Should undergo Institutional Training for 2 Weeks during the IV Semester Vacation and Report has to be submitted. The Evaluation will be done in V Semester.											

FIFTH SEMESTER										
Course Code	Title of the Course	Exam (Hrs)	Hours				Max. Marks			Credits
			L	T	P	Total	CA	CE	Total	
PART – III										
25SSP523A OR 25SSP523B	Major Elective Course I Distributed Computing OR Blockchain Technologies	3	3	1	-	4	25	75	100	4
25SSP524	Major Course – Web Application Development	3	4	1	-	5	25	75	100	5
25SSP525	Major Course – Computer Networks	-	3	1	-	4	100	-	100	4
25SSP526	Major Course – Open Source Technologies	3	3	1	-	4	25	75	100	4
25SSP527	Minor Course – Optimization Techniques (MA)	3	4	-	-	4	25	75	100	4
25SSP528	Major Course – Practical XI (Web Application Development Lab) [Skill Based]	3	-	-	2	2	40	60	100	1
25SSP529	Major Course - Practical XII (Computer Networks Lab) [Skill Based]	3	-	-	3	3	40	60	100	1
25SSP530	Major Course - Practical XIII Open Source Technologies Lab [Skill Based]	3	-	-	2	2	40	60	100	1
25SSP531	Major Course - Institution Training	-	-	-	-	-	40	60	100	6
25SSP532	Trans Disciplinary Course	-	2	-	-	2	100	-	100	2
PART – IV										
25SECU502	Skill Enhancement Course – II Indian Knowledge System [Computer Based Test]	1.5	-	-	-	-	-	100	100	2
TOTAL			19	4	7	30	460	640	1100	34

SIXTH SEMESTER										
Course Code	Title of the Course	Exam (Hrs)	Hours				Max. Marks			Credits
			L	T	P	Total	CA	CE	Total	
PART - III										
25SSP633A OR 25SSP633B	Major Elective Course II Soft Computing OR Neural Networks	3	3	1	-	4	25	75	100	4
25SSP634	Major Course- Artificial Intelligence	3	4	1	-	5	25	75	100	5
25SSP635	Major Course – Mobile Application Development	-	4	-	-	4	100	-	100	4
25SSP636	Major Course – Machine Learning	3	4	1	-	5	25	75	100	5
25SSP637	Major Course - Software Engineering and Testing	3	3	-	-	3	25	75	100	3
25SSP638	Major Course – Practical XIV (Artificial Intelligence Lab) [Skill Based]	3	-	-	2	2	40	60	100	1
25SSP639	Major Course - Practical XV (Mobile Application Development Lab) [Skill Based]	3	-	-	3	3	40	60	100	1
25SSP640	Major Course - Practical XVI (Machine Learning Lab) [Skill Based]	3	-	-	2	2	40	60	100	1
PART - IV										
25PCSUSSP	Professional Competency Skill - Server-Side Scripting and Database Integration	-	2	-	-	2	100	-	100	2
TOTAL			20	3	7	30	420	480	900	26

SEVENTH SEMESTER											
Course Code	Title of the Course	Exam (Hrs)	Hours				Max. Marks			Credits	
			L	T	P	Total	CA	CE	Total		
PART – III											
25SSP741	Major Course - Capstone Project	-	-	-	-	-	80	120	200	12	
TOTAL			-	-	-	-	80	120	200	12	

EIGHTH SEMESTER											
Course Code	Title of the Course	Exam (Hrs)	Hours				Max. Marks			Credits	
			L	T	P	Total	CA	CE	Total		
PART – III											
25SSP842A/ OR 25SSP842B	Major Elective Course III Pervasive Computing OR Deep Learning	3	3	1	-	4	25	75	100	4	
25SSP843	Major Course – Natural Language Processing	3	3	1	-	4	25	75	100	4	
25SSP844	Major Course - Internet of Things	-	3	1	-	4	100	-	100	4	
25SSP845	Major Course – Cloud Computing and DevOps	3	4	1	-	5	25	75	100	5	
25SSP846	Major Course – Design and Analysis of Algorithms	3	3	1	-	4	25	75	100	4	
25SSP847	Major Course - Practical XVII (Natural Language Processing Lab) [Skill Based]	3	-	-	2	2	40	60	100	1	
25SSP848	Major Course - Practical XVIII (Internet of Things Lab) [Skill Based]	3	-	-	3	3	40	60	100	1	
25SSP849	Major Course - Practical XIX Cloud (Computing and DevOps Lab) [Skill Based]	3	-	-	2	2	40	60	100	1	
PART IV											
25SECP201	Skill Enhancement Course – III Cyber Security	-	2	-	-	2	100	-	100	2	
TOTAL			18	5	7	30	420	480	900	26	

NINTH SEMESTER											
Course Code	Title of the Course	Exam (Hrs)	Hours				Max. Marks			Credits	
			L	T	P	Total	CA	CE	Total		
PART – III											
25SSP950A OR 25SSP950B	Major Elective Course IV Edge Computing OR Generative AI & Explainable AI Models	3	3	1	-	4	25	75	100	4	
25SSP951	Major Course – Modern Database	3	3	1	-	4	25	75	100	4	
25SSP952	Major Course – Big Data Analytics	3	3	-	-	3	25	75	100	3	
25SSP953	Major Course – Integrated Application Development	-	4	-	-	4	100	-	100	4	
25SSP954	Major Course – Principles of Compiler Design	3	3	1	-	4	25	75	100	4	
25SSP955	Major Course – Practical XX (Modern Database and Analytics Lab) [Skill Based]	3	-	-	3	3	40	60	100	1	
25SSP956	Major Course – Practical XXI (Integrated Application Development Lab) [Skill Based]	3	-	-	2	2	40	60	100	1	
25SSP957	Major Course – Practical XXII (Principles of Compiler Design Lab) [Skill Based]	3	-	-	2	2	40	60	100	1	
25SSP958	Inter Disciplinary Course – Theory	3	2	-	-	2	25	75	100	2+1	
25SSP959	Inter Disciplinary Course - Practical	3	-	-	2	2	40	60	100		
TOTAL			18	3	9	30	385	615	1000	25	

TENTH SEMESTER										
Course Code	Title of the Course	Exam (Hrs)	Hours				Max. Marks			Credits
			L	T	P	Total	CA	CE	Total	
PART – III										
25SSP1050	Major Course – Project / Innovation / Startup / Internship	-	-	-	-	-	80	120	200	12
TOTAL		-	-	-	-	-	80	120	200	12

PART-V					
V	Non CGPA Credit Course (NCCC) - (a) NCC/NSS/Sports/ Department Activity - Social Immersion & Community Engagement & Paatti Thatha Manavar Kuzhu Activities	-	-	2	I to V V
	Non CGPA Credit Course (NCCC) - (b) Add-on Certificate Course / Extra Course / Certificate Course in Gender Sensitization / Women's Studies / Yoga for Youth Empowerment / Rural & Community Development / Innovation Entrepreneurship and Venture Development	-	-	2	I to V
	Non CGPA Credit Course (NCCC) - (c) Any Two Massive Open Online Course (MOOC)*	2	-	4	I to IX

* **Massive Open Online Course (MOOC)** should be completed during I to IX semester. **ANY TWO MOOC** available on SWAYAM-NPTEL/Coursera/any other MOOC portal shall be completed. **The course must be of minimum 4 Weeks Duration / 20 Hours Duration.**

Compulsory Component to be Completed by the Student		
S. No.	Compulsory Component to be completed by the students	To be Completed during the Semester
1	Student should compulsorily complete any one of the value Certificate Course offered by the Computer stream Programmes of the College.	I - V

Trans Disciplinary Course Offered by the Department	
25TDCSSU	Introduction to Computer Coding
25IDCSSPT	E-Content Development
25IDCSSPP	E-Content Development Practical

	CA	CE	Total	Credits
Grand Total	3245	4555	7800	238