

SARDAR RAJA COLLEGE OF ENGINEERING
RAJA NAGAR, ALANGULAM
Department of Computer Applications



Subject Name : PROBLEM SOLVING & PROGRAMMING

Subject Code : MC9212

Year : I – M.C.A

Semester : I

Mrs. S. Antony Alice Jeya Bharathi

Asst.Prof / MCA

Micro Lesson Plan

Hours	Lecture Topics	Text Book
	UNIT I INTRODUCTION TO PROGRAMMING	
1	Introduction to computing	R2
2	Building blocks for simple programs	
3	Problem to program	
4	Decision structures	
5	Loop structures	
6	Problem analysis	
7	Programming style	
8 & 9	Documentation and testing	
	UNIT II PROGRAMMING PARADIGMS	
10	Procedural	R3
11&12	Functional	
13&14	Recursive	
15&16	Rule-based	
17&18	Structured programming	
	UNIT III PROBLEM SOLVING TECHNIQUES	
19	Programming life cycle phases	R3
20	Problem solving	
21	Implementation	
22	Maintenance	
23&24	Pseudo code representation	
25&26	Flow charts	
27&28	Algorithms	
29	Algorithmic efficiency	
30	Complexity of algorithms	
	UNIT IV C PROGRAMMING FUNDAMENTALS	
31	Structured program development	R1
32	Data types	
33	Operators	
34	Expressions	
35&36	Control flow	
37&38	Arrays	
39&40	Pointers	
41&42	Functions	
43&44	Input & output statements	
45	Storage classes.	R1
	UNIT V ADVANCED FEATURES	
46	Strings	
47	Recursion	
48&49	Structures	
50	Unions & Bit manipulations	
51	Enumerations	
52&53	File processing	
54	Fundamental Data Structures	

