

OBE CLO–Domain Mapping Table for Compiler Design

CLO No.	Course Learning Outcome (CLO)	Cognitive	Psychomotor	Affective
CL01	Explain the fundamental concepts of compiler design and analyze the role of each compilation phase in program translation.	✓		
CL02	Implement lexical analysis techniques to recognize tokens and evaluate their efficiency for different input programs.	✓	✓	
CL03	Construct syntax trees using parsing techniques and analyze their role in representing program structure.	✓	✓	
CL04	Perform semantic analysis to detect type and scope errors and justify its importance in ensuring program correctness.	✓	✓	
CL05	Generate three-address code (TAC) from intermediate representations	✓	✓	

	and compare its suitability for various optimization strategies.			
CL06	Apply code optimization techniques and assess their impact on execution efficiency and resource usage.	✓	✓	
CL07	Implement code generation algorithms and evaluate their effectiveness in producing target machine code.	✓	✓	