



Course Outcomes & CO-PO-PSO Mapping and Justification

Subject	System Software & Compiler Design	18CS61
COURSE OUTCOMES:		
CO No.	On completion of this course, students will be able to:	Cognitive Level
18CS61.1	Understand the system software such as assemblers and microprocessors.	L2
18CS61.2	Understand the system softwares such as assemblers and loaders.	L2
18CS61.3	Develop top down and bottom up parsers.	L3
18CS61.4	Understand the usage of lex and yacc tools.	L2
18CS61.5	Understand SDD, SDT, intermediate code generation and machine code generation.	L2

CO-PO-PSO MAPPING

CO No.	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
18CS61.1	2	-	-	-	-	-	-	-	-	-	-	2	-	2	-
18CS61.2	2	-	-	-	-	-	-	-	-	-	-	2	-	2	-
18CS61.3	2	2	-	-	-	-	-	-	-	-	-	2	-	2	-
18CS61.4	2	-	-	-	2	-	-	-	-	-	-	2	-	2	-
18CS61.5	1	-	-	-	-	-	-	-	-	-	-	2	-	2	-
Avg. Mapping	1.8	2.0	-	-	2.0	-	-	-	-	-	-	2.0	-	2.0	-

CO-PO-PSO JUSTIFICATION

CO No.	PO/PSO	CL	Justification
18CS61.1	PO1	2	Apply engineering Knowledge moderately to design assemblers for different architectures.
	PO12	2	Information acquired from the design of assembler is moderately applicable for lifelong learning in the context of system software development.
	PSO2	2	Acquired knowledge helps to provide novel approaches to design of system software.
18CS61.2	PO1	2	Apply engineering Knowledge moderately for different phases of compilation.
	PO12	2	Information acquired from the compilation phases which is moderately applicable for lifelong learning in the context of Compiler Construction.
	PSO2	2	Having the knowledge about the compiler construction tools helps strongly in the study and design of compiler.
18CS61.3	PO1	2	Knowledge of Ambiguities in the context free Grammar helps students moderately for analyzing the problems in parsing.
	PO2	2	Identifies mathematical algorithmic knowledge that helps moderately to analyze given problem for removing ambiguities in the context free Grammar.
	PO12	2	Moderately maps as student can acquire the information from bottom up and top down evaluation for lifelong learning in compilation.
	PSO2	2	Information acquired from the fundamentals of parsing leads moderately to implement the intermediate code.
18CS61.4	PO1	2	Knowledge of parsing helps students moderately for implementing the problems using lex and yacc.
	PO5	2	Moderately maps as students will be able to choose appropriate software tools to conduct the experiments using lex and yacc.
	PO12	2	Moderately maps as student can acquire the knowledge from regular expressions and grammar for lifelong learning in parsing.
	PSO2	2	Information acquired from the fundamentals of parsing leads moderately to implement various applications.
18CS61.5	PO1	1	Apply engineering fundamentals slightly to learn about the Intermediate code generation and machine code generation in compilation process.
	PO12	2	Moderately maps as students can understand and implement different types Intermediate Representation of code used for generating target code.

	PSO2	2	Information acquired from the fundamentals of intermediate representation leads moderately for implementation of target code.
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Prepared by

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