PUNE INSTITUTE OF COMPUTER TECHNOLOGY

DHANKAWADI, PUNE – 43.

LIST OF LAB SCHEDULE

ACADEMIC YEAR: 2019-2020

DEPARTMENT : INFORMATION TECHNOLOGY **Date : - 14/12/2019**

CLASS: T. E. **SEMESTER: II**

SUBJECT: SOFTWARE LAB V

Lab Exp. No	Problem Statement	Date of Submission
	Mini Project	Complete semester
1.	Write a recursive program to find the solution of placing n queens on chessboard so that no two queens attack each other using backtracking.	3rd Week Of December
2.	Write a program to implement pass-I of two-pass assembler for symbols and literal processing (for hypothetical instruction set from dhamdhere) considering following cases I. FORWARD REFERENCES II. DS AND DC STATEMENT III. START, EQU, LTORG, END. IV. ERROR HANDLING Symbol used but not defined, invalid instruction/register etc.	1st Week of January
3.	Write a program to implement pass - II of two-pass assembler for output of assignment 1 (the subject teacher should provide input file for this assignment)	2nd Week of January
4	Write a program to find maximum and minimum element in an array using divide and conquer strategy and verify the time complexity.	3rd Week of January
5.	Write a program to solve optimal storage on tapes problem using greedy approach.	4th Week of January
6.	Study assignment for macro processor. (consider all aspects of macro processor)	1st Week of February

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7.	Write a program to implement lexical analyzer for subset of C.	2nd Week of February
8.	Write a program to implement BELLMAN-FORD algorithm using dynamic programming and verify the time complexity.	4th Week of February
9.	Write a program to implement a recursive descent parser.	1st Week of March
10.	Write a program to solve the travelling salesman problem and to print the path and the cost using dynamic programming.	3rd Week of March
11.	Write a program to implement calculator using LEX and YACC.	4th Week of March
12.	Write a program for intermediate code generation using LEX and YACC for control flow statement (either while loop or switch case)	1st Week of April
13.	Write a program to solve the travelling salesman problem and to print the path and the cost using branch and bound.	2nd Week of April
	Mock Test (Mid semester , End Semester)	

Subject Coordinator

Prof. K. Y. Digholkar

Head of Department

Dr. A. M. Bagade