Pune Vidyarthi Griha"s College of Engineering and Technology & G.K. Pate (Wani) Institute of Management, Pune- 411009.

SCHEDULE OF LAB EXPERIMENTS

ACADEMIC YEAR: 2020-2021

DEPARTMENT: COMPUTER ENGINEERING **Date : 27/05/2021**

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

SUBJECT: System Programming &Operating System Lab

Sr. No.	Title	Performance Date	Submission Date
1	Design suitable data structures and implement **pass-I of a two-pass assembler** for pseudo-machine in Java using object oriented feature. Implementation should consist of a few instructions from each category and few assembler directives.	18/3/21	27/5/21
2	Implement **Pass-II of two pass assembler** for pseudo-machine in Java using object oriented features. The output of assignment-1 (intermediate file and symbol table) should be input for this assignment.	16/4/21	27/5/21
3	Write a program to create **Dynamic Link Library** for any mathematical operation and write an application program to test it. (Java Native Interface / Use VB or VC++). .	22/4/21	27/5/21
4	Write a program using Lex specifications to implement lexical analysis phase of compiler to **generate tokens of subset of 'Java' program**.	13/5/21	27/5/21
5	Write a program using Lex specifications to implement lexical analysis phase of compiler to **count no. of words, lines and characters of given input file**.	17/5/21	27/5/21
6	Write a program using YACC specifications to implement syntax analysis phase of compiler **to validate type and syntax of variable declaration in Java**.	17/5/21	27/5/21

7	Write a program using YACC specifications to implement syntax analysis phase of compiler **to recognize simple and compound sentences given in input file**.	20/5/21	27/5/21
8	Write a Java program (using OOP features) to implement following scheduling algorithms: **FCFS , SJF (Preemptive), Priority (Non-Preemptive) and Round Robin (Preemptive)**	20/5/21	27/5/21
9	Write a Java program to implement Banker's Algorithm	24/5/21	27/5/21
10	Write a Java Program (using OOP features) to implement paging simulation using 1. Least Recently Used (LRU) 2. Optimal algorithm	24/5/21	27/5/21

Subject Coordinator **Head of the department**

(Prof. Ashlesha Sawant) **(Prof. D.D.Sapkal)**