



SARASWATI Education Society's  
**SARASWATI** College of Engineering

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Kharghar, Navi Mumbai - 410 210.

**NAAC Accredited**

## **Department of Computer Engineering**

**Name: Shaikh Adnan Shaukat Ali**

**Roll No: 76**

**Subject code: CSL601**

**Subject Name: System Programming and Compiler Construction Lab**

**Class/Sem: T.E. / SEM-VI**

**Year: 2021-2022**



**COMPUTER ENGINEERING DEPARTMENT**

**Subject: System Programming and Compiler Construction Lab. Class/Sem: TE/VI**

**Name of the Laboratory: Project Lab.**

**Year: 2021-2022**

**LIST OF EXPERIMENTS**

<b>Expt. No.</b>	<b>Date</b>	<b>Name of the Experiment</b>	<b>Page No.</b>
1	20/01/2022	Case study on System Programming.	3-14
2	27/01/2022	Lexical Analyzer tool: LEX 1. To identify a given number is even or odd. 2. Identify vowels in a string. 3. To identify relational operator. 4. To copy the contents of one file to another file.	15-22
3	04/02/2022	Perform arithmetic operations using YACC.	23-27
4	11/02/2022	Design an implementation of pass I of two pass assembler.	28-33
5	18/03/2022	Design an implementation of pass II of two pass assembler.	34-43
6	4/03/2022	Design an implementation of pass I of two pass macro-processor.	44-50
7	11/03/2022	Design an implementation of pass II of two pass macro-processor.	51-57
8	25/03/2022	Implementation of Lexical Analyzer.	58-62
9	01/04/2022	Implementation of Parser.	63-67
10	08/04/2022	Implementation of intermediate code generation.	68-72
11	22/04/2022	Study on LLVM tool.	73-78
1	22/02/2022	Assignment No. 1	79-96
2	20/04/2022	Assignment No. 2	97-121

<b>H/W Requirement</b>	P I and above, RAM 128MB, Printer, Cartridges.
<b>S/W Requirement</b>	Flex Windows (LEX and YACC), C Compiler.

Prof. Shatabdi Bhalerao  
**Subject In-charge**

Prof. Sujata Bhairnallykar  
**HOD**