SSN COLLEGE OF ENGINEERING, KALAVAKKAM – 603 110
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
VI SEMESTER – CSE 'A' & 'B' SECTION
CS6612 – COMPILER LABORATORY

ACADEMIC YEAR: 2017-2018 (Even)   **BATCH: 2015-2019**

COURSE OBJECTIVES

The student should be made to:

- Learn to implement the different Phases of compiler
- Be familiar with LEX & YACC tool.
- Learn simple optimization techniques.
- Learn to design back end of the compiler

COURSE OUTCOMES

At the end of the course, the student should be able to

1. Design and implement scanner and parser using LEX and YACC tool.   (K3)
2. Develop programs to analyze the control flow and data flow of given source program.
                                                                                                            (K5)
3. Implement storage allocation strategies.   (K3)
4. Implement simple optimization techniques.   (K3)
5. Implement backend of the compiler.   (K3)

Bloom's Taxonomy

Remember	Understand	Apply	Analyze	Evaluate	Create
K1	K2	K3	K4	K5	K6

1. **Engineering knowledge:** Our graduates will have the knowledge of mathematics, logic, probability and statistics, computer science and engineering, and the skill to apply them in the fields of computer software and hardware. (**K3)**
2. **Problem analysis:** Our graduates will have the knowledge and skill to identify, formulate, and solve hardware and software problems using sound computer science principles.   (**K4)**
3. **Experimentation:** Our graduates will have the skill to design and conduct experiments, organize, analyze, and interpret data.   **(K5)**
4. **Design and development:** Our graduates will have the skill to design and construct hardware and software systems, components, or processes as per needs and specifications. **(K4)**
5. **Team work:** Our graduates will have the interpersonal and communication skills to function as team players on multidisciplinary teams.   -

6. Modern tools usage: Our graduates will be able to use the techniques, skills, and modern hardware and software tools necessary for computer engineering practice. **(K3)**
7. Social and environmental responsibility: Our graduates will demonstrate knowledge related to social, ethical, legal, economical, health and safety, sustainability and environmental dimensions.
8. Communication skills: Our graduates will be able to effectively communicate technical information in speech, presentation, and in writing.
9. Contemporariness: Our graduates will have knowledge of contemporary issues in the practice of their profession.
10. Self-learning: Our graduates will develop confidence for self learning and ability for life-long learning.
11. Competitive exam preparedness: Our graduates will participate and succeed in competitive examinations such as GATE, IES, GRE.
12. Leadership: Our graduates are trained to enhance their managerial skills, leadership quality and entrepreneurial spirit.

Description of Assessment Tools

Exams: Demonstration of lab assignments during labs and model exam.

Assessment tools

	CO1	CO2	CO3	CO4	CO5
Lab Assignments	X	X	X	X	X
Model exam	X	X	X	X	X

Course Outcomes Mapped To Programme Outcomes

		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
		K3	K4	K5	K4	-	K3	-	-	-	-	-	-
CO1	K3	3	3	2	3	2	2	0	0	0	0	0	0
CO2	K5	3	3	3	3	2	2	0	0	0	0	0	0
CO3	K3	3	3	2	3	2	2	0	0	0	0	0	0
CO4	K3	3	3	2	3	2	2	0	0	0	0	0	0
CO5	K3	3	3	2	3	2	2	0	0	0	0	0	0

3: Strong   2: Significant   3: Reasonable

FACULTY INCHARGE   VERIFIED BY   HOD-CSE

**[Dr. B.PRABAVATHY &   PAC MEMBER   [Dr. CHITRA BABU]
Dr. B. BHARATHI]**