INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

NAME OF DEPT./CENTRE: Electronics and Computer Engineering

1. Subject Code: **EC - 372** Course Title: **Compiler Lab**

2. Contact Hours: L: 0 T: 0 P: 3

3. Examination Duration (Hrs.): Theory 0 0 Practical 0 0

4. Relative Weightage: CWS 00 PRS 100 MTE 00 ETE 00 PRE 00

7. Pre-requisite: **EC - 355**.

8. Subject Area: DCC

9. Objective: To give the students practice in writing various phases of a compiler and to familiarize them with various compiler writing tools.

10. Details of the Course:

Sl.	Contents	Contact Hours
No.		
	Design and coding of lexical analyzer manually.	
	Use of LEX, LEX specification for tokens and construction of lexical	
	analyzer, programming problems with LEX.	14 x 3
	Parser construction, producing simple desk calculator with YACC,	
	generating postfix code with YACC.	
	Machine code generation.	
	Total	42

11. Suggested Books:

Sl.	Name of Books / Authors	Year of
No.		Publication
1.	Aho, A.V., Lam, M., Sethi, R. and Ullman, J.D., "Compilers:	2007
	Aho, A.V., Lam, M., Sethi, R. and Ullman, J.D., "Compilers: Principles, Techniques and Tools", 2 nd Ed., Pearson Education.	
2.	Das, V.V., "Compiler Design using FLEX and YACC", Prentice-Hall	2007
	of India.	
3.	Tremblay, J.P. and Sorenson, P.G., "Parsing Techniques: A Practical	1998
	Guide", Ellis Horwood.	