1.	Title of the course	Compiler Design Laboratory
2.	Course number	CS301P
3.	Structure of credits	0-0-3-2
4.	Offered to	UG
5.	New course/modification to	Modification To CS3191/8
6.	To be offered by	Department of Computer Science and Engineering
7.	To take effect from	July 2022
8.	Prerequisite	Nil
9.	**Course Objective(s):** To gain hands-on experience on the tools and techniques for implementing language translators; To understand a broad class of translation problems.	
10.	**Course Content:** A language subset will be defined and used during the lab course; The programming exercises here consist of implementing the basic components of a compiler for a toy language, which is a subset of the languages such as C, Java, using LEX/JFLEX and YACC tools; The constructs in this subset are found in most programming languages; Further the course contains exercises on translating documents in different formats such as html2txt, latex2html.	
11.	**Textbook(s):** 1. Holub A I, *Compiler Design in C*, Person Publisher (2015). 2. Levine J, Mason T and Brown D, *Lex & Yacc: Text Processing Tools*, Oreilly (2014).	
12.	**Reference(s):** 1. Donnelly C and Stallman R, *Bison: The Yacc-compatible Parser Generator*, Samurai Media Limited (2015). 2. verBurg C L, *Effective Flex & Bison*, CreateSpace Independent Publishing Platform (2018).	