

Lesson Plan of the 7th semester for session 2020-21 (July- Dec)

Name of the faculty:	Ms. Anshita
Designation:	Assistant Professor
Discipline:	Computer Science and Engg.
Semester:	7th
Subject:	Compiler design (CSE-405-F)
Lesson Plan duration:	15 weeks
Work Load per week in hours:	Lectures- 03,Tut-01

Week	Lecture day	Topic
1	1	Introduction To Compilers: Compilers and translators need of translators
	2	structure of compiler AND structure of compiler
	3	Compiler construction tools
2	4	Lexical Analysis: Role of lexical analyzer
	5	design of lexical analyzer
	6	regular expressions
3	7	Specification and recognition of tokens
	8	input buffering
	9	A language specifying lexical analyzer
4	10	Finite automata
	11	Conversion from regular expression to finite automata, and vice versa
	12	Minimizing number of states of DFA
5	13	Implementation of lexical analyzer
	14	Syntax Analysis: Role of parsers
	15	Context free grammars, definition of parsing
6	16	Parsing Technique: Shift- reduce parsing
	17	Operator precedence parsing
	18	Top down parsing
7	19	Predictive parsing
	20	LR parsers, SLR, LALR
	21	Canonical LR parser
8	22	Syntax Directed Translations: Syntax directed definition
	23	Construction of syntax trees
	24	Syntax directed translation scheme

9	25	Implementation of syntax directed translation
	26	Three address code, quadruples and triples
	27	Symbol Table & Error Detection And Recovery: Symbol tables, its contents and data structure for symbol tables
10	28	Trees, arrays, linked lists, hash tables
	29	Errors, lexical phase error, syntactic phase error, semantic error
	30	Code Optimization & Code Generation: Code generation
11	31	Forms of objects code
	32	Machine dependent code, optimization
	33	Register allocation for temporary and user defined variables
12	34	Assignment
	35	Revision of unit 1.
	36	Test of unit 1
13	37	Assignment
	38	Revision of unit 2.
	39	Test of unit 2.
14	40	Revision of unit 3.
	41	Test of unit 3.
	42	Revision of unit 4.
15	43	Test of unit 4.
	44	Revision of whole syllabus
	45	Problem solving.

