



MERI College of Engineering & Technology (MERI-CET)

Session: 2020-2021
Department: CSE
Subject code: CSE-405-F

Course- CSE
Semester: 7th
Faculty Name : Ms. PREETI

LESSON PLAN

Name of the Faculty : Ms. Preeti (Theory & Practical)
 Discipline : CSE
 Semester : 7th
 Subject : Compiler Design (CSE-405-F)
 Lesson Plan Duration : 15 Weeks (from Aug., 2020 to Nov., 2020)

** Work Load (Lecture/Practical) per week (in hours): Lectures-03, Practicals-06

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/test)	Practical day	Topic
1 st	1 st	Introduction To Compilers::	1 st	Practice of LEX/YACC of compiler writing.
	2 nd	Compilers and translators need of translators,		
	3 rd	structure of compiler, its different phases,		
2 nd	4 th	Compiler construction tools.	2 nd	Write a program to check whether a string belong to the grammar or not.
	5 th	Lexical Analysis: Role of lexical analyzer,		
	6 th	design of lexical analyzer, regular expressions		
3 rd	7 th	Specification and recognition of tokens,	3 rd	Write a program to generate a parse tree.
	8 th	input buffering,		
	9 th	A language specifying lexical analyzer.		
4 th	10 th	Finite automata,	4 th	
	11 th	conversion from regular expression to finite automata, and vice versa,		

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	12 th	minimizing number of states of DFA,		Write a program to find leading terminals.
5 th	13 th	Implementation of lexical analyzer.	5 th	Write a program to find trailing terminals.
	14 th	Revision		
	15 th	Assignment-1		
6 th	16 th	Syntax Analysis:Role of parsers	6 th	Write a program to
	17 st	context free grammars		compute FIRST of non-terminal.
	18 nd	definition of parsing, Parsing Technique		
7 th	19 th	Shift- reduce parsing,	7 th	Write a program to compute FOLLOW of non-terminal.
	20 th	operator precedence parsing,		
	21 th	top down parsing, predictive parsing.		
8 th	22 th	Revision,Assignment-2	8 th	Write a program to remove left factoring.
	23 th	LR parsers,		
	24 th	SLR, LALR		
9 th	25 nd	Canonical LR parser,	9 th	Write a program to check whether a grammar is operator precedent.
	26 rd	Syntax Directed Translations		
	27 th	Syntax directed definition, construction of syntax trees		
10 th	28 th	syntax directed translation scheme	10 th	To show all the operations of a stack.
	29 th	implementation of syntax directed translation		
	30 th	three address code, Quadruples, triples ASSIGNMENT-3		
11 th	31 th	Symbol Table & Error Detection And Recovery		
	32 nd	Symbol tables,		
	33 rd	contents and data structure for symbol tables;, trees, arrays, linked lists		
12 th	34 th	hash tables, Errors,		



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	35 th	. lexical phase error		
	36 th	syntactic phase error, semantic error		
13 th	37 th	Code Optimization & Code Generation : Code generation		
	38 th	forms of objects code, Machine dependent code		
	39 st	optimization, register allocation for temporary and user defined variables.		
14 th	40 nd	ASSIGNMENT 4		
	41 rd	Revision of syllabus		
	42 th	Revision of syllabus		
	43 th	Revision of syllabus		
15 th	44 th	Pre-University Exams		