

Lesson Plan

Name of Faculty : Ms.Bharti Sethi, Assistant Professor of CSE
 Discipline : Computer Science and Engineering
 Semester : 7th sem(odd)
 Subject : Compiler Design (CSE-405E)
 Lesson Plan Duration : 15 weeks (from August2020 to Dec-2020)

Work Load (Lecture/Practical) per week (in hours): Lectures-04 hours

Week	Theory		Topic Covered Date and Remarks		
	Lecture- Day	Topic (Including Assignment/Test)	Date	HOD	Director- Principal
1 st	1	Compiler and translator,need of translator			
	2	Structure of compiler and its phases			
	3	Compiler construction tools			
	4	Role of lexical analyzer			
2 nd	5	Regular expressions			
	6	Specification and recognition of tokens			
	7	Input buffering			
	8	Finite automata			
3 rd	9	Conversion from regular expression to finite automata			
	10	Minimizing number of states of dfa			
	11	implementation of lexical analyzer			
	12	Role of parsers,CFG			
4 th	13	Parsing and its types			
	14	Shift reduce parsing			
	15	Operator precedence parsing			
	16	Top down parsing			
5 th	17	Predictive parsing			
	18	Syntax directed translation			
	19	Construction of syntax trees			
	20	Syntax directed translation scheme			
6 th	21	Implementation of SDT			
	22	Three address code and examples			
	23	Quadruple and numerical			
	24	Triples and their representation			
7 th		1st Minor Test			
8 th	25	Symbol table and its types			
	26	Contents of symbol table			
	27	Data structure for symbol table			
	28	Trees and their storage in symbol table			
9 th	29	Arrays and its attributes			
	30	Linked lists and their storage			
	31	Hash tables and collisions			
	32	Errors and its types			
10 th	33	Lexical phase errors			
	34	Syntactic phase errors			
	35	Sementic errors			
	36	Code optimization			
11 th	37	Machine dependent code			
	38	Code generation			
	39	Forms of object code			
	40	Register allocation for temporary variables			
12 th	41	User defined variables and their scope			
	42	Loop optimization			
	43	Scope optimization			
	44	Dag representation			
13 th	45	Machine independent code			
	46	Various phases of parsing			
	47	First and follow algorithms			
	48	First and follow numericals			
14 th		2nd Minor Test			
15 th	49	LR parsers			
	50	SLR parsers			
	51	LALR parsers			
	52	Canonical parsers			

Sr.	Comments	HOD	Director- Principal
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