Name of Faculty: Ms. Alisha Sikri (Th), Ms. Sneha (Pr) Discipline:- B. Tech. (CSE)

Semester: 6th

Subjects: Artificial Intelligence (CSE 308 B, CSE 328 B)
Lession Plan Duration: 15 Weeks (from January,2018 to April,2018)
Workload(Lecture/Practical) per week (in hours): Lecture-03, Practicals -02 hours

Week	Theory			Practical		
	Lecture Day	Topic (including assignment/test)	Practical Day	Topic		
1st	1st	Foundation and history of AI				
	2nd	Al problems and techniques	1st	Introduction to PROLOG		
	3rd	Al programming Languages	1			
	4th	Introduction to LISP and PROLOG- problem spaces and searches				
2nd	5th	Problem Spaces and searches	2nd	To Diagnose diseases using PROLOG		
	6th	Blind search strategies	1			
	7th	Test				
3rd	8th	Breadth first- Depth first-	3rd	File Check & Viva		
	9th	Heuristic search techniques	1			
	10th	Hill climbing: best first				
4th	11th	A * algorithm AO*algorithm	4th	To find factorial of a number using PROLOG		
	12th	AO* Algorithm	1			
	13th	Game Tree				
5th	14th		5th	Determine the colour, model, price of the vehicle with its		
Sin		Min max algorithms	əm	customer name		
	15th	Game playing				
	16th	Alpha beta pruning		File Check & Viva		
6th	17th	Test	6th			
	18th	Knowledge representation issues				
	19th	Predicate logic- logic programming				
7th	20th	Semantic nets- frames and Inheritance	7th	Program for fibonacci series using PROLOG		
	21st	constraint propagation	1			
	22nd	Representing knowledge using rules				
8th	23rd	Rules based deduction Systems	8th	To convert a string from upper clase to lower case and vice versa		
	24th	Test	1			
	25th	Reasoning under uncertainty				
9th	26th	Review of probability	9th	File Check & Viva		
	27th	Baye's probabilistic interferences	1			
	28th	Dempster Shafer Theory				
10th	29th	Test	10th	Program to implement Breadth first search		
	30th	Heuristic methods	1			
	31st	Symbolic reasoning under uncertainty				
11th	32nd	Statistical reasoning	11th	Program to implement Depth first search		
	33rd	Test		r		
	34th	Fuzzy Reasoning				
12th	35th	Temporal reasoning	12th	File Check & Viva		
	36th	Non monotonic reasoning.	1			
	37th	Test	1			
13th	38th	Principles of Natural language processing	13th	Program of Insertion Sort in PROLOG		
1.7(11	39th	Rule based systems architecture	┥ <sup>~~</sup>			
	40th	Expert systems	† †			
14th	41st	Test	14th	Program for solving 8-QUEENS problems		
1-411	42nd	Knowledge acquisition concepts	- 1-411	110gram for solving 6-QUEENS problems		
	43rd	Al application to robotics	+			
15th	44th	Current trends in intelligent systems	15th	File Check & Viva		
15th	ui	San Sin Collas III Intelligent Systems	1301	riie Check & viva		

Name of Faculty: Ms. Kirti Rana Discipline:- B. Tech. (CSE)

Semester: 6th

Subjects: Compiler Design (CSE 304 B, CSE 324 B)
Lession Plan Duration: 15 Weeks (from January, 2018 to April, 2018)

Workload(Lecture/Practical) per week (in hours): Lecture-03, Practicals -02 hours

Week	Theory		Practical		
	Lecture Day	Topic (including assignment/test)	Practical Day	Торіс	
	1st	Compiler & translators, need of translators			
1st	2nd	Structure of Compiler, its phases	1st	Practice of LEX/YACC of compiler writing.	
181	3rd	Passes in Compilation & Compiler construction tools	150	Practice of LEA/TACC of compiler writing.	
	4th	Introduction, Role and Design of Lexical Analyzer, Input buffering		To show all the operations of a stack.	
2nd	5th	Specification & recognition of tokens, regular Expression, Finite automata	2nd		
	6th	Conversion from regular expression to finite automata & vice versa			
	7th	Minimizing number of states of DFA		To show various operations i.e. red, write and modify in a text file.	
3rd	8th	A language specifying Lexical analyzer & implementation of lexical analyzer	3rd		
	9th	Test			
	10th	Role of Parser & definition of Parsing			
4th	11th	Context free grammars	4th	File Check & Viva	
	12th	Parsing Technique & shift reduce parsing			
	13th	Operator Precedence Parsing			
5th	14th	Operator Precedence Parsing Algo & example	5th	Write a program to find leading terminals.	
	15th	Top down parsing with backtracking			
	16th	Top down parsing without backtracking		Write a program to find trailing terminals.	
6th	17th	Introduction to Predictive Parsers	6th		
	18th	Elements of Predictive Parser			
	19th	Example of Predictive Parsers		Write a program to compute FIRST of non- terminal.	
7th	20th	LR parser	7th		
	21st	SLR parser	1		
	22nd	Example of SLR parser		File Check & Viva	
8th	23rd	Canonical LR parser	8th		
	24th	Example of SLR parser			
	25th	LALR parser		Write a program to compute FOLLOW of non-terminal.	
9th	26th	Example of LALR Parser	9th		
	27th	Test			
10.1	28th	Syntax directed definition & construction of syntax trees	10th	Write a program to check whether a grammar is	
10th	29th	Syntax directed translation scheme		left Recursion and remove left Recursion.	
	30th	Implementation of syntax directed translation			
	31st	Three address code			
11th	32nd	Quadruples & triples	11th	Write a program to remove left factoring.	
	33rd	Symbol table & its content			
	34th	Data structure for symbol tables		Write a program to check whether a grammar is	
12th	35th	Error & lexical phase error	12th	operator precedent.	
	36th	Syntactic error & semantic error		operator precedent.	
	37th	Test	13th	Write a program to check whether a string belong to the grammar or not.	
13th	38th	Code Optimization			
	39th	Loop optimization		to the grammar or not.	
	40th	global data flow analysis	]	h Write a program to generate a parse tree.	
14th	41st	Code generation	14th		
	42nd	forms of object code			
	43rd	Register allocation for temporary varibles	_		
15th	44th	Register allocation for user defined variables	15th	File Check & Viva	
	45th	Test	<u> </u>		

Name of Faculty: Ms. Taruna Discipline:- B. Tech. (CSE)

Semester: 6th

Subjects: Programming Language (CSE 312 B)

Lession Plan Duration: 15 Weeks (from January,2018 to April,2018 Workload(Lecture/Practical) per week (in hours): Lecture-03

	Theory						
Week	Lecture Day						
	1st	Syntactic and semantic rules of a Programming language					
	2nd	Characteristics of a good programming language					
1st	3rd	Programming language translators compiler & interpreters					
	4th	Virtual Computers & Binding times					
	5th	Introduction to procedural, non-procedural language					
2nd	6th	Structured language, Functional language					
	7th	Object oriented programming language					
	8th	Comparison of C & C++ programming languages					
3rd	9th	Test					
	10th	Elementary data types – data objects, variable & constants					
	11th	Specification & implementation of elementary data types					
4th	12th	Declarations ,type checking & type conversions					
	13th	Assignment & initialization , data types					
	14th	Numeric data types, enumerations					
5th	15th	Booleans & characters, Sets, files					
	16th	Structured data types& data Objects					
	17th	Specification & implementation of structured data types					
6th	18th	Declaration & type checking of data structure					
	19th	Character strings, variable size data structures					
	20th	Union, pointer & programmer defined data objects					
7th	21st	Test					
	22nd	Implicit & explicit sequence control					
	23rd	Sequence control within expressions					
8th	24th	Sequence control within statement					
	25th	Simple call return					
	26th	Recursive subprograms					
9th	27th	Exception & exception handlers					
	28th	Co routines, Sequence control					
	29th	Names & referencing environment					
10th	30th	Static & dynamic scope, block structure					
	31st	Local data & local referencing environment					
	32nd	Shared data (dynamic & static scope), Parameters& parameter transmission schemes.					
11th	33rd	Test					
	34th	Major run time elements requiring storage					
	35th	Programmer and system controlled storage management					
12th	36th	Programmer and system controlled storage phases					
	37th	Static storage management					
	38th	Stack based storage management					
13th	39th	Heap storage management					
	40th	Variable & fixed size elements					
	41st	Evolution of data type concept					
14th	42nd	Abstraction, encapsulation & information hiding					
	43rd	Subprograms					
	44th	Type definitions, Abstract data types					
15th	45th	Test					

Name of Faculty: Ms. Rachna Discipline:- B. Tech. (CSE)

Semester: 6th

Subjects: SOFTWARE ENGINEERING(CSE310 B)

Lession Plan Duration: 15 Weeks (from January, 2018 to April, 2018)
Workload(Lecture/Practical) per week (in hours): Lecture-03

Week		Theory
WCCK	Lecture Day	Topic (including assignment/test)
	1st	Introduction to Software Engineering
1st	2nd	importance of Software, The Software Evolution, Software
	3rd	Software Crisis: Problem and Causes.
	4th	Software Development Life Cycle model
2nd	5th	Personal Software process (PSP) and Team Software process (TSP
	6th	Test
	7th	Overview of agile process, aspect oriented programming
3rd	8th	Software Requirement Specification, Requirement elicitation and Validation
	9th	Information and analysis classes,flow and behavioral modeling
	10th	System Design: Design Concepts
4th	11th	design models for architecture, component
	12th	Test
	13th	data and user
5th	1.4.1	interfaces; Problem Partitioning
	14th	Abstraction, Cohesiveness, Coupling
	15th	Top Down and Bottom Updesign approaches
	16th	Functional Versus Object Oriented Approach
6th	17th	Design Specification, 4GL
	18th	Test
	19th	Coding: TOP-DOWN and BOTTOM-UP structure programming
7th	20th	Information Hiding, Programming
	21st	Internal Documentation, Verification
	22nd	Software Testing: Levels of Testing, Functional Testing
8th	23rd	Structural Testing, Test Plan, Test Case
	24th	Specification, Software Testing Strategies, Verification & Validation
	25th	Unit, Integration Testing
9th	26th	Test
	27th	Down and Bottom Up Integration Testing
	28th	Alpha & Beta Testing, White box and black box testing
10th	29th	System Testing and Debugging
	30th	Software Configuration Management, Overview of Software Quality
	31st	Control and Quality Assurance, ISO 9000 Certification for Softwar Industry
11th	32nd	SEI Capability Maturity Model (CMM)
	33rd	Comparison between ISO & SEI CMM.
	34th	Test
12th	35th	A Framework for Technical Software Metrics,
	36th	Metrics for the Analysis Model
	37th	Metrics for Design Model, Metrics for Source Code,
13th	38th	Metrics for Testing
	39th	Test
	40th	Metrics for Maintenance.
14th	41st	CASE and its Scope
	42nd	CASE support in Software Life Cycle
	43rd	Documentation Support, Architecture of CASE Environment.
15th	44th	Exposure to CASE tools like Rational Software suit
	45th	*

Name of Faculty: Ms REKHA MANN

**Discipline**:- civil/mech/cse

Semester: 6th

**Subject; REPORT WRUTING AND ORAL PRESENTATION SKILLS Lession Plan Duration**: 15 Weeks (from January,2018 to April,2018)

Workload(Lecture/Practical) per week (in hours): Lecture-03, Practicals -02 hours

XX71	Theory			Practical		
Week	Lecture Day	Topic (including assignment/test)	Practical Day	Topic		
	1st	Introduction to unit-1				
1st	2nd	Meaning of Report	1st	Group discussion		
	3rd	Importance of report				
	4th	test		Purpose and process of GD		
2nd	5th	Types of Report	2nd			
	6th	Revision				
	7th	test		Test		
3rd	8th	Informational and Analytical report	3rd			
	9th	Routine report				
	10th	oral report				
4th	11th	Revision	4th	What and why of group discussion		
	12th	Test		, , ,		
	13th	Written report		Do's and donot of GD		
5th	14th	Diffrence between orao and written report	5th			
	15th	formal report				
	16th	Informal report				
6th	17th	Diffrence between formal and informal report	6th	Test		
	18th	Revision				
	19th	Test				
7th	20th	Other types of report	7th	More about GD		
,	21st	Format of report	7			
	22nd	letter report		Revision		
8th	23rd	Memo format	8th			
our	24th	inspection report				
	25th	Manuscript format				
9th	26th	Revision	9th	Test		
ZIII	27th	ORAL TEST	- Jul			
	28th	Written test				
10th	29th	Structure of the report	10th	Importance of GD		
10111	30th	Structure of the formal and informal report	Tour			
	31st	Text of the report				
11th	32nd	Supplementary parts		Oral communication skills		
11111	33rd	**	11111			
	34th	Revision Test				
12th	35th	Introduction to unit-2	12th	Group etiquette		
1201	36th		1201			
	37th	Procedure of writing report				
13th	37th 38th	Reports on technical topics	13th	Mock interview		
13tn	38th 39th	Report on business topics	1.5tn			
	40th	Test		Mock interview activity		
1.4.1		Revision of section-1	144			
14th	41st	Test	14th			
	42nd	Revision of full syllabus				
	43rd	Revision of full syllabus		TEST		
15th	44th	Revision of full syllabus	15th			
	45th	Test				

Name of Faculty: Mr. Anil Kumar Discipline:- B. Tech. (CSE)

Semester: 6th

Subjects: Advanced Java Programming (CSE 306 B, CSE 326 B)
Lession Plan Duration: 15 Weeks (from January, 2018 to April, 2018)

Workload(Lecture/Practical) per week (in hours): Lecture-03, Practicals -02 hours

Week	Theory		Practical		
Week	Lecture Day	Topic (including assignment/test)	Practical Day	Topic	
	1st	Introduction to Java, Structure of Java Programs	1st	WAP to store Acno, Name, Balance in a class.	
1st	2nd	Control Statements - sequence, selection & looping		Compute Interest as 8% of Balance >= 75000,	
	3rd	Working with Arrays and Strings		Interest as 6% if Balance >= 40000 else 3%.	
	4th	Concepts of Classes and Methods		WAP to accept 2 numbers. Divide 1st no. by 2nd display the result. Display user defined error	
2nd	5th	Use of Constructors & Polymorphisms	2nd		
	6th	Test	1	message if 2nd no. is zero.	
	7th	Inheritance and interfaces		File check & Viva	
3rd	8th	Packages & Exception Handling	3rd		
	9th	I/O & File Streams			
	10th	AWT Programming		Write a program in Java for illustrating	
4th	11th	Applet Programming	4th	overloading, over riding and various forms of	
	12th	Test		inheritance.	
	13th	Swing, JApplet, Icons and Labels,			
5th	14th	Buttons & Text Fields	5th	Write programs to create packages and multiple	
	15th	Check Box, Radio Buttons	1	threads in Java.	
	16th	Container, Panel, Windows, Frame			
6th	17th	Combo Box & List Box	6th	File check & Viva	
	18th	Test			
	19th	Scroll & Tabbed Panes			
7th	20th	Trees & Tables	7th	Write programs in Java for event handling Mouse	
	21st	Custom rendering of Jlist cells		and Keyboard events.	
	22nd	JDBC Fundamental, Design of JDBC, SQL, JDBC		Using Layout Manger create different application	
		Installation	8th		
8th	23rd	JDBC Programming			
	24th	Working with statements, Creating & Executing SQL			
	25th	Statements Working with result set and meta data		Test	
9th	26th	Test	9th		
Jui	27th	Bean Writing Process	7111		
	28th	naming Pattern for bean		XX	
10th	29th	Starting & working with BDK	10th	Write programs in Java to create and manipulat Text Area, Canvas, Scroll Bars, Frames, and menus using swing/AWT.	
Tour	30th	Use of JAR file, use of Bean API	1001		
	31st	Introduction & use of Servlets		menus using swing/11/11	
11th	32nd	Creating, Compiling & running Servlets	11th	Using Java create Applets.	
11111	33rd	Reading servlet parameters	1101		
	34th	Test			
12th	35th	Handling HTTP request & Response	12th	File check & Viva	
1201	36th	Examples of HTTP request & Response	1201	THE CHECK & VIVA	
	37th	working with Servlet packages	13th	Using Java language for Client Server Interactio with stream socket connections.	
13th	38th	Cookies and Session Tracking			
1.501	39th	Test	1301		
	40th	JSP Architecture, JSP Access Model		Write a program in Java to read data from disk fi	
14th	41st	JSP syntax basics	14th		
17111	42nd	concept of Implicit Objects, Object Scope	1401		
	42nd 43rd	working with Implicit Objects			
150			15th	File check & Viva	
15th	44th	Synchronization & Session Management.			