Lesson Plan

Name of Faculty : Ms.Bharti Sethi, Assistant Professor of CSE
Discipline : Computer Science and Engineering
Semester : 7th sem (odd)
Subject : Compiler design lab (CSE-407 E
Lesson Plan Duration : 15 weeks (from august-2018 to december-2018)
Work Load (Lecture/Practical) per week (in hours): Practical-03 hours

Week	Practical (Group-I/ II)		Practicals Covered Date and Remarks		
	Practical Day	Topics/ Programs	Date	HOD	Director-Principal
1st	1	Practice of LEX/YACC of compiler writing			
2nd	2	Wap to check whether a string belongs to the grammer or not			
3rd	3	Wap to generate a parse tree			
4th	4	Wap to find leading terminals			
5th	5	Wap to find trailing elements			
6th	6	Wap to compute FIRST of non terminals			
7th		**1st VIVA VOICE**			
8th	7	WAP to compute FOLLOW of non terminals			
9th	8	WAP to check whether a grammer is left recursion and remove left recursion.			
10th	9	WAP to remove left factoring			
11th	10	WAP to check whether a grammer is opg			
12th	11	To show all the operations of a stack			
13th	12	To show various operations like read, write and modify in a text file			
14th		**2nd VIVA VOICE**			
15th	13	Case study of various phases of compiler			

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 January/ February-2018 to April/ May-2018)**
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
1st	1	Compiler and translator,need of translator			
	2	Structure of compiler and its phases			
	3	Compiler construction tools			
	4	Role of lexical analyzer			
2nd	5	Regular expressions			
	6	Specification and recognition of tokens			
	7	Input buffering			
	8	Finite automata			
3rd	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			
4th	13	Parsing and its types			
	14	Shift reduce parsing			
	15	Operator precedence parsing			
	16	Top down parsing			
5th	17	Predictive parsing			
	18	Syntax directed translation			
	19	Construction of syntax trees			
	20	Syntax directed translation scheme			
6th	21	Implementation of SDT			
	22	Three address code and examples			
	23	Quadruple and numerical			
	24	Triples and their representation			
7th		**1st Minor Test**			
8th	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			
9th	29	Arrays and its attributes			
	30	Linked lists and their storage			
	31	Hash tables and collisions			
	32	Errors and its types			
10th	33	Lexical phase errors			
	34	Syntactic phase errors			
	35	Sementic errors			
	36	Code optimization			
11th	37	Machine dependent code			
	38	Code generation			
	39	Forms of object code			
	40	Register allocation for temporary variables			
12th	41	User defined variables and their scope			
	42	Loop optimization			
	43	Scope optimization			
	44	Dag representation			
13th	45	Machine independent code			
	46	Various phases of parsing			
	47	First and follow algorithms			
	48	First and follow numericals			
14th		**2nd Minor Test**			
15th	49	LR parsers			
	50	SLR parsers			
	51	LALR parsers			
	52	Canonical parsers			

Lesson Plan

Name of Faculty : **Ms. Sonam, Assistant Professor of CSE**
Discipline : **Computer Science and Engineering**
Semester : **7TH (ODD)**
Subject : **Advance Computer Architecture (CSE-401 E)**
Lesson Plan Duration : **15 weeks (from July/August-2018 to Nov/Dec-2018)**
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
1st	1	The State Of Computing			
	2	Multiprocessor			
	3	Multi Computers			
	4	Multi Vectors			
2nd	5	SIMD Computers			
	6	PRAM model			
	7	VLSI model			
	8	Problem on 1st unit			
3rd	9	Condition on Parallelism			
	10	Program Partitioning			
	11	Program SCHEDULING			
	12	Program Flow Mechanism			
4th	13	System Interconnect Architecture			
	14	Numerical on Scheduling			
	15	Component Used On interconnection			
	16	Problem on 2nd unit			
5th	17	Advance Processor Technology			
	18	Super Scalar Processor			
	19	Vector Processor			
	20	Memory Hierarchy Technology			
6th	21	Numerical on Memory			
	22	Numerical on processor			
	23	Virtual memory technology			
	24	Problems on 3rd unit			
7th		**1st Minor Test**			
8th	25	Backplane Bus system			
	26	Cache Memory Organisation			
	27	Shared Memory Organisation			
	28	Sequential Consistency Model			
9th	29	Numerical related to sequential model			
	30	Week Consistency Model			
	31	Numerical related to Model			
	32	Problem on 4th unit			
10th	33	Linear Pipeline Processor			
	34	Non linear Pipeline Processor			
	35	Instruction Pipeline Design			
	36	Arithmetic Pipeline design			
11th	37	Superscalar Design			
	38	Super Pipeline Design			
	39	Multiprocessor System Interconnect			
	40	Cache Coherence			
12th	41	Synchronization Mechanism			
	42	Message Passing Mechanism			
	43	Problem on 5th unit			
	44	Problem on 6TH unit			
13th	45	Vector Processing Principle			
	46	Multi vector Processor			
	47	Compound Vector Processing			
	48	Principle of Multi threading			
14th		**2nd Minor Test**			
15th	49	Data Flow Architecture			
	50	Hybrid Architecture			
	51	Numerical on Vector Processor			
	52	Problem Solution			

Lesson Plan

Name of Faculty : Ms Sonam, Assistant Professor of CSE
Discipline : Computer Science and Engineering
Semester : 7TH (Odd)
Subject : Multimedia System (EE-403E) & Multimedia Lab (EE-423 E)

Lesson Plan Duration : 15 weeks (from July/August -2018 to Nov /Dec -2018)
Work Load (Lecture/Practical) per week (in hours): Lectures-04hours, Practical-02 hours

Week	Theory		Practical (Group-I/ II)	
	Lecture Day	Topic (Including Assignment/Test)	Practical Day	Topics/ Programs
1st	1	CD-ROM explanation	1	To Study multimedia Hardware system
	2	Multimedia Highway		
	3	Use of Multimedia		
	4	Introduction To making multimedia		
2nd	5	The stage of project	2	To study about HTML (Hyper Text Mark up Language)
	6	Requirement to make good multimedia		
	7	Multimedia skill and training –the multimedia team		
	8	Training opportunities in multimedia		
3rd	9	Macintosh production platform	3	Write a program to insert Audio & Video file in HTML.
	10	Window production platform		
	11	Hardware Peripherals- Connections		
	12	Memory and storage device		
4th	13	Input / Output Hardware device	4	Write a web page for clothing company
	14	Communication Device		
	15	Media software Basic tools		
	16	Making Instant multimedia		
5th	17	Multimedia Authoring tools	5	Introduction to Micro media flash 5.
	18	Problems on unit 1st		
	19	Problems on unit 2nd		
	20	Assignment 1st		
6th	21	Multimedia Building blocks – TEXT	6	Write a program to produce the animation effect using micro media flash 5
	22	Multimedia Building blocks – Sound		
	23	Multimedia Building block- Images		
	24	Multimedia Building block- Animation		
7th		**1st minor test**		
8th	25	Multimedia Building block- Video	7	**Viva voice – 1st**
	26	Problem on unit 3rd		
	27	Assembling and Delivering a project		
	28	Planning about project		
9th	29	Costing about project	8	Study of adobe Photoshop tools
	30	Designing of project		
	31	Producing of project		
	32	Content related to project		
10th	33	Talent related to project	9	Write a program to create the effect using Photoshop
	34	Data compression		
	35	Testing of project		
	36	Delivering of project		
11th	37	CD-ROM technology	10	Write a program to simulate the guess number game between 0 &100
	38	Problem on 4th unit		
	39	Assignment 2nd		
	40	History of multimedia		
12th	41	Internet working , connections	11	Steps for animation effect on slide show using flash 5
	42	Internet services		
	43	The world wide web		
	44	Web server , web browser		
13th	45	Web page maker & editor	12	Problem regarding all the programs
	46	Plug ins –delivery vehicle		
	47	HTML , VRML		
	48	Working on web , test for the web		
14th		**2nd minor test**		
15th	49	Media communication	13	**2nd viva –voce**
	50	Media consumption		
	51	Media entertainment		
	52	Media games		

Lesson Plan

Name of Faculty : Seema Rani, Assistant Professor of CSE
Discipline : Computer Science and Engineering
Semester : 7th (odd)
Subject : Data Warehousing And Data Mining (IT-401-E)
Lesson Plan Duration : 15 weeks (from June to December-2018)
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
1st	1	Data warehousing Definition,			
	2	Usage and trends			
	3	DBMS vs data warehouse,			
	4	Data marts,			
2nd	5	Metadata			
	6	Multidimensional data mode			
	7	Data cubes,			
	8	Schemas for Multidimensional Database:			
3rd	9	Stars,			
	10	Snowflakes			
	11	fact constellations			
	12	Data warehouse process			
4th	13	Data warehouse architecture			
	14	OLTP vs OLAP			
	15	ROLAP vs MOLAP,			
	16	Types of OLAP,			
5th	17	Servers			
	18	3-Tier data warehouse architecture			
	19	Distributed data warehouses,			
	20	virtual data warehouses,			
6th	21	Data warehouse manager			
	22	Data warehouse implementation			
	23	Computation of data cube			
	24	Modelling OLAP data,			
7th		**1st Minor Test**			
8th	25	OLAP queries manager,			
	26	Data warehouse back end tools,			
	27	Complex aggregation at multiple granularities			
	28	Tuning of data warehouse			
9th	29	Testing of data warehouse			
	30	Data mining definition			
	31	Data mining task			
	32	KDD versus data mining,			
10th	33	Data mining techniques			
	34	Tools			
	35	Applications.			
	36	Data mining query languages			
11th	37	data specification			
	38	specifying knowledge			
	39	hierarchy specification			
	40	Pattern presentation			
12th	41	Visualisation specification,			
	42	Data mining languages			
	43	standardisation of data mining			
	44	Data mining techniques:			
13th	45	Association rules, Clustering techniques			
	46	Decision tree knowledge discovery through Neural Network			
	47	Decision tree knowledge discovery through Genetic Algorithm			
	48	Support Victor Machines and Fuzzy techniques.			
14th		**2nd Minor Test**			
15th	49	Mining complex data objects			
	50	Spatial databases, Multimedia databases,			
	51	Time series and Sequence data;			
	52	Mining Text Databases and mining Word Wide Web.			

Lesson Plan

Name of Faculty : Seema Rani, Assistant Professor of CSE
Discipline : Computer Science and Engineering
Semester : VIIth (odd)
Subject : Major Project Part-I (Group-I & Group-II) (CSE-498-E)
Lesson Plan Duration : 15 weeks (from June to December-2018)
Work Load (Lecture/Practical) per week (in hours): Project-08 hours

Week	Major Project Part-II (Group-I & Group-II)		Topic Covered Date and Remarks		
	Practical Day	Topics/ Programs 4 Hrs G-I + 4 Hrs G-II	Date	HOD	Director-Principal
1st	1	Basic Introduction to Project Formulation (G-I)			
	2	Basic Introduction to Project Formulation (G-II)			
2nd	3	Steps in Project Formulation (G-I)			
	4	Steps in Project Formulation (G-II)			
3rd	5	Literature Review for Project Formulation (G-I)			
	6	Literature Review for Project Formulation (G-II)			
4th	7	Literature Review and Macro Design for Project Formulation (G-I)			
	8	Literature Review and Macro Design for Project Formulation (G-II)			
5th	9	Literature Review and Micro Design for Project Formulation (G-I)			
	10	Literature Review and Micro Design for Project Formulation (G-II)			
6th	11	Financial and Time Evaluation (G-I)			
	12	Financial and Time Evaluation (G-II)			
7th		**1st Minor Test**			
8th	13	Social and Technical Evaluation (G-I)			
	14	Social and Technical Evaluation (G-II)			
9th	15	SRS Document of Project (G-I)			
	16	SRS Document of Project (G-II)			
10th	17	Final Project Problem and Methodology (G-I)			
	18	Final Project Problem and Methodology (G-II)			
11th	19	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-I Students) (Roll No. 1511151001 to 1411151005)			
	20	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-II Students) (Roll No. 15111510026 to 1411151904)			
12th	21	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-I Students) (Roll No. 1511151006 to 1411151010)			
	22	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-II Students) (Roll No. 1511151905 to 1411151910)			
13th	23	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-I Students) (Roll No. 1511151011 to 1411151015)			
	24	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-II Students) (Roll No. 1511151911 to 1411151915)			
14th		**2nd Minor Test**			
15th	25	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-I Students) (Roll No. 15111510016 to 1411151025)			
	26	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-II Students) (Roll No. 1511151916 to 1411151919 and Any Remaining Students)			

Lesson Plan

Name of Faculty : Seema Rani, Assistant Professor of CSE
Discipline : Computer Science and Engineering
Semester : 7th (odd)
Subject : Software Project Management (CSE-403-E)
Lesson Plan Duration : 15 weeks (from June to December-2018)
Work Load (Lecture/Practical) per week (in hours): Lectures-04hours

Week	Theory		Topic Covered Date and Remarks		
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal
1st	1	Definition of a Software Project ,SP Vs. projects activities covered by SPM,			
	2	Categorizing SPs,Projects as A System			
	3	Management Control			
	4	Requirement Specification			
2nd	5	Information And Control in Organisation			
	6	Stepwise Project planning: Intro, selecting a project			
	7	Identifying project scope objectives, ,			
	8	Identifying project infrastructure			
3rd	9	Analyzing project characteristics			
	10	Identifying project products and activities, ,			
	11	Estimate efforts each activity			
	12	Identifying activity risk, allocate resources,			
4th	13	Review/publicise plan			
	14	Cost benefit analysis, cash flow forecasting			
	15	Cost benefit evaluation techniques, Selection of an appropriate project			
	16	Choosing technologies, choice of process model,			
5th	17	Structured Method ,rapid application development			
	18	Water fall-, V-process-, spiral- models.			
	19	Prototyping, Delivery			
	20	Albrecht function point analysis.			
6th	21	Objectives of activity planning, project schedule,			
	22	Projects and activities, sequencing and scheduling activities,			
	23	Planning model, representation of lagged activities,			
	24	The time dimension, backward and forward pass,			
7th		**1st Minor Test**			
8th	25	Identifying critical path, Activity Throat,			
	26	Shortening project , precedence networks			
	27	Risk Management: Introduction, the nature of risk, managing risk			
	28	Risk identification, risk analysis, reducing the risks,			
9th	29	Evaluating risks to the schedule, calculating the z values.			
	30	Introduction, the nature of resources, identifying resource requirements			
	31	Scheduling, resources creating critical paths, counting the cost,			
	32	Being specific, publishing the resource schedule,			
10th	33	Cost schedules, the scheduling sequence			
	34	Monitoring the control, creating the frame work			
	35	Collecting the data, visualizing progress			
	36	Cost monitoring, earned value,			
11th	37	Prioritizing monitoring, getting the project back to target			
	38	Change control.			
	39	Managing contracts and people: Introduction			
	40	Types of contract, stages in contract, Placement			
12th	41	Typical terms of a contract, contract management, acceptance			
	42	Managing people and organizing terms: Introduction, understanding behaviour,			
	43	Organizational behaviour: a back ground, selecting the right person for the job,			
	44	Instruction in the best methods, motivation, working in groups,			
13th	45	Becoming a team, decision making, leadership,			
	46	Organizational structures, conclusion, further exercises..			
	47	Software quality, the place of software quality in project planning,			
	48	The importance of software quality, defining software quality			
14th		**2nd Minor Test**			
15th	49	ISO 9126, Practical software quality measures,			
	50	product versus process quality management,			
	51	External standards, techniques to help enhance software quality			
	52	Study of viz Project 2000 or equivalent			

Lesson Plan

Name of Faculty : Dr. Sanjay Dahiya, Assistant Professor of CSE
Discipline : Computer Science and Engineering
Semester : VIIth (odd)
Subject : Major Project Part-I (Group-I & Group-II) (CSE-498-E)
Lesson Plan Duration : 15 weeks (from June to December-2018)
Work Load (Lecture/Practical) per week (in hours): Project- hours

Week	Major Project Part-II (Group-I & Group-II)		Topic Covered Date and Remarks		
	Practical Day	Topics/ Programs	Date	HOD	Director-Principal
1st	1	Basic Introduction to Project Formulation (G-I)			
	2	Basic Introduction to Project Formulation (G-II)			
2nd	3	Steps in Project Formulation (G-I)			
	4	Steps in Project Formulation (G-II)			
3rd	5	Literature Review for Project Formulation (G-I)			
	6	Literature Review for Project Formulation (G-II)			
4th	7	Literature Review and Macro Design for Project Formulation (G-I)			
	8	Literature Review and Macro Design for Project Formulation (G-II)			
5th	9	Literature Review and Micro Design for Project Formulation (G-I)			
	10	Literature Review and Micro Design for Project Formulation (G-II)			
6th	11	Financial and Time Evaluation (G-I)			
	12	Financial and Time Evaluation (G-II)			
7th		**1st Minor Test**			
8th	13	Social and Technical Evaluation (G-I)			
	14	Social and Technical Evaluation (G-II)			
9th	15	SRS Document of Project (G-I)			
	16	SRS Document of Project (G-II)			
10th	17	Final Project Problem and Methodology (G-I)			
	18	Final Project Problem and Methodology (G-II)			
11th	19	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-I Students)(Roll No. 1511151001 to 1411151005)			
	20	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-II Students) (Roll No. 15111510026 to 1411151904)			
12th	21	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-I Students) (Roll No. 1511151006 to 1411151010)			
	22	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-II Students) (Roll No. 1511151905 to 1411151910)			
13th	23	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-I Students) (Roll No. 1511151011 to 1411151015)			
	24	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-II Students) (Roll No. 1511151911 to 1411151915)			
14th		**2nd Minor Test**			
15th	25	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-I Students) (Roll No. 15111510016 to 1411151025)			
	26	Evaluation of Final Project Problem and Methodology Based on Topic, Resource, PPT, Presentation and Communications Skills, Query & Redresses (G-II Students) (Roll No. 1511151916 to 1411151919 and Any Remaining Students)			

Lesson Plan

Name of Faculty : Ms.Arushi Bansal, Assistant Professor of CSE
Discipline : Computer Science and Engineering
Semester : 7th sem (odd)
Subject : Visual Programming Lab (CSE-409 E)
Lesson Plan Duration : 15 weeks (from august-2018 to december-2018)
Work Load (Lecture/Practical) per week (in hours): Practical-02 hours

Week	Practical (Group-I/ II)		practical Covered Date and Remarks		
	Practical Day	Topics/ Programs	Date	HOD	Director-Principal
1st	1	Study of visual basic programing and C++			
2nd	2	To create simple window using vc++ programming			
3rd	3	To interact with mouse using vc++ programming			
4th	4	To interact with keys using vc++ programming			
5th	5	To perform calculator operation using vc++ programming			
6th	6	Internal 1st viva – voce			
7th		**1st Minor Test**			
8th	7	To create a Toolbar using vc++ programming			
9th	8	To create a DLL and using them in application using vc++ programming			
10th	9	To create Threads and using them in application using vc++ programming			
11th	10	To create an ODBC and implement it in a application using vc++ programming			
12th	11	To implement MDI application using vc++ programming			
13th	12	To implement the serialization application using vc++ programming			
14th		**2nd Minor Test**			
15th	13	Internal 2nd viva – voce			