

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
1 st	1	Practice of LEX/YACC of compiler writing			
2 nd	2	Wap to check whether a string belongs to the grammer or not			
3 rd	3	Wap to generate a parse tree			
4 th	4	Wap to find leading terminals			
5 th	5	Wap to find trailing elements			
6 th	6	Wap to compute FIRST of non terminals			
7 th		1st VIVA VOICE			
8 th	7	WAP to compute FOLLOW of non terminals			
9 th	8	WAP to check whether a grammer is left recursion and remove left recursion.			
10 th	9	WAP to remove left factoring			
11 th	10	WAP to check whether a grammer is opg			
12 th	11	To show all the operations of a stack			
13 th	12	To show various operations like read, write and modify in a text file			
14 th		2nd VIVA VOICE			
15 th	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
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			

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
1 st	1	The State Of Computing			
	2	Multiprocessor			
	3	Multi Computers			
	4	Multi Vectors			
2 nd	5	SIMD Computers			
	6	PRAM model			
	7	VLSI model			
	8	Problem on 1 st unit			
3 rd	9	Condition on Parallelism			
	10	Program Partitioning			
	11	Program SCHEDULING			
	12	Program Flow Mechanism			
4 th	13	System Interconnect Architecture			
	14	Numerical on Scheduling			
	15	Component Used On interconnection			
	16	Problem on 2 nd unit			
5 th	17	Advance Processor Technology			
	18	Super Scalar Processor			
	19	Vector Processor			
	20	Memory Hierarchy Technology			
6 th	21	Numerical on Memory			
	22	Numerical on processor			
	23	Virtual memory technology			
	24	Problems on 3 rd unit			
7 th	1st Minor Test				
8 th	25	Backplane Bus system			
	26	Cache Memory Organisation			
	27	Shared Memory Organisation			
	28	Sequential Consistency Model			
9 th	29	Numerical related to sequential model			
	30	Week Consistency Model			
	31	Numerical related to Model			
	32	Problem on 4 th unit			
10 th	33	Linear Pipeline Processor			
	34	Non linear Pipeline Processor			
	35	Instruction Pipeline Design			
	36	Arithmetic Pipeline design			
11 th	37	Superscalar Design			
	38	Super Pipeline Design			
	39	Multiprocessor System Interconnect			
	40	Cache Coherence			
12 th	41	Synchronization Mechanism			
	42	Message Passing Mechanism			
	43	Problem on 5 th unit			
	44	Problem on 6 th unit			
13 th	45	Vector Processing Principle			
	46	Multi vector Processor			
	47	Compound Vector Processing			
	48	Principle of Multi threading			
14 th	2nd Minor Test				
15 th	49	Data Flow Architecture			
	50	Hybrid Architecture			
	51	Numerical on Vector Processor			
	52	Problem Solution			

Lesson Plan

Name of Faculty : Ms Varsha, Assistant Professor of
CSE Discipline : Computer Science and Engineering
Semester : 7th (Odd)
Subject : Multimedia System (PEC-CSE-407T) & Multimedia Lab (PEC-CSE-407P)
Lesson Plan Duration : 15 weeks (from July/August -2024 to Nov /Dec -2024)

Work Load (Lecture/Practical) per week (in hours): Lectures-03hours, Practical-02 hours

Week	Theory		Practical (Group-I/ II)		HOD SIGN.
	Lecture Day	Topic (Including Assignment/Test)	Practical Day	Topics/ Programs	
1 st		Introduction to Multimedia concepts	1	Introduction to Photoshop Basics.	
		Types of Multi-media Applications			
		Types of Multi-media Applications			
2 nd		Methods to deliver Multimedia	2	Design a poster for 2019 elections and show the difference in quality and resolution for Print and Web.	
		Introduction to Multimedia Database			
		Multimedia Input and Output Devices.			
3 rd		Introduction about font and faces	3	Pick any picture of a magazine cover page and make changes using selection tool	
		Using Text in Multimedia, Applying different types of text multimedia			
		Font Editing and Design tools			
4 th		Hypermedia and Hypertext application.	4	Draw a landscape using multiple Layers.	
		The power of images			
		Making Still Images			
5 th		Colouring, Image File Formats (GIF, JPEG, PNG etc.)	5	Paint a scenery of a park using different tools of Photoshop.	
		The power of sound			
		MIDI Vs. Digital Audio			
6 th		Audio File Formats (AIFF, WAV, MPEG, MOV etc.)	6	Take image from different Image Sources show variation in resolution	
		Adding Sound to multimedia project			
		Working of a Video and its Display			
7 th		1st minor test			
8 th		Digital Video Containers (Codecs & Video Format Converters)	7	Viva voice – 1st	
		Obtaining Video Clips, Shooting and editing Video			
		Non Linear Editing(NLE) in Videos			
9 th		The stages of Multimedia Project	8	Use effective cropping techniques to design a collage	
		Hardware and Software requirements			
		Authoring Systems Team for Multimedia Development			
10 th		Different stages of multimedia	9	Design a scenery showing correction of image tonality.	
		The internet and multimedia			
		Digital Video Containers (Codecs & Video Format Converters)			
11 th		Colouring, Image File Formats (GIF, JPEG, PNG etc.)	10	Make a poster by adjusting Image Colours.	
		Colouring, Image File Formats (GIF, JPEG, PNG etc.)			
		The power of sound			
12 th		Audio File Formats (AIFF, WAV, MPEG, MOV etc.)	11	Painting the cover page of your magazine with Special Photoshop Tools.	
		Adding Sound to multimedia project			
		MIDI Vs. Digital Audio			
13 th		Authoring Systems Team for Multimedia Development	12	Design a card on the occasion of Diwali using at least 3 different filters.	
		Methods to deliver Multimedia			
		Introduction about font and faces			
14 th		2nd minor test			
15 th		Problems of multimedia system	13	2nd viva –voce	

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
1 st	1	Data warehousing Definition,			
	2	Usage and trends			
	3	DBMS vs data warehouse,			
	4	Data marts,			
2 nd	5	Metadata			
	6	Multidimensional data mode			
	7	Data cubes,			
	8	Schemas for Multidimensional Database:			
3 rd	9	Stars,			
	10	Snowflakes			
	11	fact constellations			
	12	Data warehouse process			
4 th	13	Data warehouse architecture			
	14	OLTP vs OLAP			
	15	ROLAP vs MOLAP,			
	16	Types of OLAP,			
5 th	17	Servers			
	18	3-Tier data warehouse architecture			
	19	Distributed data warehouses,			
	20	virtual data warehouses,			
6 th	21	Data warehouse manager			
	22	Data warehouse implementation			
	23	Computation of data cube			
	24	Modelling OLAP data,			
7 th		1st Minor Test			
8 th	25	OLAP queries manager,			
	26	Data warehouse back end tools,			
	27	Complex aggregation at multiple granularities			
	28	Tuning of data warehouse			
9 th	29	Testing of data warehouse			
	30	Data mining definition			
	31	Data mining task			
	32	KDD versus data mining,			
10 th	33	Data mining techniques			
	34	Tools			
	35	Applications.			
	36	Data mining query languages			
11 th	37	data specification			
	38	specifying knowledge			
	39	hierarchy specification			
	40	Pattern presentation			
12 th	41	Visualisation specification,			
	42	Data mining languages			
	43	standardisation of data mining			
	44	Data mining techniques:			
13 th	45	Association rules, Clustering techniques			
	46	Decision tree knowledge discovery through Neural Network			
	47	Decision tree knowledge discovery through Genetic Algorithm			
	48	Support Vector Machines and Fuzzy techniques.			
14 th		2nd Minor Test			
15 th	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 : Varsha Rani, Assistant Professor of
CSE Discipline : Computer Science and Engineering
Semester : VIIth (odd)
Subject : Mini Project (Group-I & Group-II) (CSE-402)
Lesson Plan Duration : 15 weeks (from august to December-2021)

Work Load (Lecture/Practical) per week (in hours): Project-04 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
1 st	1	Basic Introduction to Project Formulation (G-I)			
	2	Basic Introduction to Project Formulation (G-II)			
2 nd	3	Steps in Project Formulation (G-I)			
	4	Steps in Project Formulation (G-II)			
3 rd	5	Survey for Project Formulation (G-I)			
	6	Survey for Project Formulation (G-II)			
4 th	7	Design for Project Formulation (G-I)			
	8	Design for Project Formulation (G-II)			
5 th	9	Design for Project Formulation (G-I)			
	10	Design for Project Formulation (G-II)			
6 th	11	IT TOOLS (G-I)			
	12	IT TOOLS (G-II)			
7 th	1st Minor Test				
8 th	13	Address the Problem (G-I)			
	14	Address the Problem (G-II)			
9 th	15	SRS Document of Project (G-I)			
	16	SRS Document of Project (G-II)			
10 th	17	Ethical practice either individual team work (G-I)			
	18	Ethical practice either individual team work (G-II)			
11 th	19	Evaluation & submission of mini project (G-I Students) (Roll No.			
	20	Evaluation & submission of mini project (G-I Students) (Roll No.			
12 th	21	Evaluation & submission of mini project (G-I Students) (Roll No.			
	22	Evaluation & submission of mini project (G-I Students) (Roll No.			
13 th	23	Evaluation & submission of mini project (G-I Students) (Roll No.			
	24	Evaluation & submission of mini project (G-I Students) (Roll No.			
14 th	2nd Minor Test				
15 th	25	Evaluation & submission of mini project (G-I Students) (Roll No.			
	26	Evaluation & submission of mini project (G-I Students) (Roll No.			

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
1 st	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			
2 nd	5	Information And Control in Organisation			
	6	Stepwise Project planning: Intro, selecting a project			
	7	Identifying project scope objectives, ,			
3 rd	8	Identifying project infrastructure			
	9	Analyzing project characteristics			
	10	Identifying project products and activities, ,			
	11	Estimate efforts each activity			
	12	Identifying activity risk, allocate resources,			
4 th	13	Review/publicise plan			
	14	Cost benefit analysis, cash flow forecasting			
	15	Cost benefit evaluation techniques, Selection of an appropriate project			
5 th	16	Choosing technologies, choice of process model,			
	17	Structured Method ,rapid application development			
	18	Water fall-, V-process-, spiral- models.			
	19	Prototyping, Delivery			
6 th	20	Albrecht function point analysis.			
	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,			
7 th		1st Minor Test			
8 th	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,			
9 th	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,			
10 th	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,			
11 th	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			
12 th	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,			
13 th	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			
14 th		2nd Minor Test			
15 th	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
1 st	1	Basic Introduction to Project Formulation (G-I)			
	2	Basic Introduction to Project Formulation (G-II)			
2 nd	3	Steps in Project Formulation (G-I)			
	4	Steps in Project Formulation (G-II)			
3 rd	5	Literature Review for Project Formulation (G-I)			
	6	Literature Review for Project Formulation (G-II)			
4 th	7	Literature Review and Macro Design for Project Formulation (G-I)			
	8	Literature Review and Macro Design for Project Formulation (G-II)			
5 th	9	Literature Review and Micro Design for Project Formulation (G-I)			
	10	Literature Review and Micro Design for Project Formulation (G-II)			
6 th	11	Financial and Time Evaluation (G-I)			
	12	Financial and Time Evaluation (G-II)			
7 th	1st Minor Test				
8 th	13	Social and Technical Evaluation (G-I)			
	14	Social and Technical Evaluation (G-II)			
9 th	15	SRS Document of Project (G-I)			
	16	SRS Document of Project (G-II)			
10 th	17	Final Project Problem and Methodology (G-I)			
	18	Final Project Problem and Methodology (G-II)			
11 th	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)			
12 th	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)			
13 th	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)			
14 th	2nd Minor Test				
15 th	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
1 st	1	Study of visual basic programing and C++			
2 nd	2	To create simple window using vc++ programming			
3 rd	3	To interact with mouse using vc++ programming			
4 th	4	To interact with keys using vc++ programming			
5 th	5	To perform calculator operation using vc++ programming			
6 th	6	Internal 1st viva – voce			
7 th		1st Minor Test			
8 th	7	To create a Toolbar using vc++ programming			
9 th	8	To create a DLL and using them in application using vc++ programming			
10 th	9	To create Threads and using them in application using vc++ programming			
11 th	10	To create an ODBC and implement it in a application using vc++ programming			
12 th	11	To implement MDI application using vc++ programming			
13 th	12	To implement the serialization application using vc++ programming			
14 th		2nd Minor Test			
15 th	13	Internal 2 nd viva – voce			

