Seth Jai Parkash Mukand Lal Institute of Engineering and Technology, Radaur

Department of Information Technology

Lesson Plans

Name of the Faculty:	Er. Vikas Juneja
Discipline:	B.Tech (IT)
Semester:	7 th
Subject:	Compiler Design(IT-401 N)
Lesson Plan Duration:	15 weeks(July, 2019 to Dec., 2019)
Work Load (Lecture) per week (In hours):	Lecture-4

Week	Lecture	Topic	
	1.	Introduction: The structure of a compiler	
2.		The role of the lexical analyzer	
	3.	Top down Parsing – Recursive Descent Parsing	
	4.	Revision	
1.			
2.	5.	Predictive Parser Implementation	
	6.	Bottom-up Parsing	
	7.	Operator Precedence Parsing	
	8.	Revision	
3.	9.	Precedence Matrix and Precedence functions	
	10.	Boolean matrices	
	11.	Shift Reduce Parser	
	12.	Revision	
4.	13.	LR Parsers – SLR parsers	
	14.	Canonical Parsers- CLR Parser	
	15.	Assignmnet-1	
	16.	Class Test-1st unit	
5.	17.	Introduction to syntax-directed translation scheme,	
	18.	syntax-directed translation scheme Of Desk calculator grammar	
	19.	Syntax Directed translation scheme of Postfix Notation	
	20.	Revision	
6.	21.	Intermediate Languages – Three address code, its types	
	22.	Implementation of Three address code	
	23.	Declarations – Procedure, Scope information & Records, Back patching	
	24.	Sessional Test-1	
7.	25.	Syntax Directed translation scheme of Assignment statements	
	26.	Syntax Directed translation scheme of Boolean expressions	
	27.	Symbol Tables Data structures for symbol tables	
	28.	Assignmnet-2	
8.	29.	Storage allocation Strategies – static, stack and heap Allocation	
	30.	Run time storage administration	
	31.	Implementation of a simple stack allocation scheme	

	32.	Revision	
9. 33.		Implementation of Block structured languages	
	34.	Error Detection and recovery method	
	35.	Error: Lexical phase errors	
	36.	Revision	
10.	37.	syntactic phase error	
	38.	Semantic error	
	39.	Introduction: Principle sources of Optimization	
	40.	Revision	
	41.	Loop Optimization method Basic blocks	
11.	42.	flow graphs	
	43.	Optimization of basic blocks	
	44.	Assignmnet-3	
12.	45.	Loops in flow graphs, Next use information	
	46.	DAG representation of basic blocks	
	47.	Global data flow analysis	
	48.	Sessional Test-2	
13.	49.	Access to non-local names, parameter passing	
	50.	A simple code generator	
	51.	Issues in the design of a code generator	
	52.	Revision	
14.	53.	The target machine	
	54.	Code generator algorithm with examples	
	55.	Discussion on code generation issues	
	56.	Assignmnet-4	
15.	57.	Runtime environment issues	
	58.	Peephole Optimization	
	59.	Revision	
	60.	Sessional Test-3	

Al 2. Classical, Romantic and Modern period 3. Applications of Al 4. Production System 2. 5. Production rules 6. the working memory 7. Recognize-act cycle 8. conflict resolution strategies 10. Recency 11. specificity 12. alternative approach for conflict resolution 4. 13. Architecture of production system 14. Types of Production systems 15. conclusion 16. Prepositional Logic 5. 17. Proposition, tautologies 18. Theorem proving in prepositional logic 19. Semantic method of Theorem proving 20. forward chaining 22. standard theorems in prepositional logic 22. standard theorems in prepositional logic 23. method of substitution 24. theorem proving using Wang' algorithm, conclusion 7. 25. Predicate Logic: - Alphabet of First order logic (FOL) 26. predicate, well formed formula 28. inflict of predicates 28. 29. unification algorithm, resolution 30. Robinson's inference rule, conclusion	Name of the Faculty:		Er. Pooja Sharma
Artificial Intelligence (IT-403N)	_		
Work Load (Lecture) per week (In hours): Week Lecture Topic 1. Introduction -foundation and history of Al 2. Classical, Romantic and Modern period 3. Applications of Al 4. Production System 1. Applications of Al 2. For Production Tules 6. the working memory 7. Recognize-act cycle 8. conflict resolution strategies 10. Recency 11. specificity 12. alternative approach for conflict resolution strategies 4. 13. Architecture of production system 14. Types of Production systems 15. conclusion 16. Prepositional Logic 5. 17. Proposition, tautologies 18. Theorem proving in prepositional logic 19. Semantic method of Theorem proving 20. forward chaining 22. standard theorems in prepositional logic 23. method of substitution 24. theorem proving using Wang algorithm, conclusion 7. 25. Predicate Logic: - Alphabet of First order logic (FOL) 26. predicate, well formed formula 27. clause form, algorithm, resolution 30. Robinson's inference rule, conclusion 31. Logic Programming and Prolog: - Logic			7^{th}
Work Load (Lecture) per week (In hours): Lecture			Artificial Intelligence (IT-403N)
Meek Lecture Topic	Lesson Plan Duration:		15 weeks (July, 2019 to Dec., 2019)
1. Introduction —foundation and history of Al 2. Classical, Romantic and Modern period 3. Applications of Al 4. Production System 2. 5. Production rules 6. the working memory 7. Recognize—act cycle 8. conflict resolution strategies 7. Recency 11. specificity 12. alternative approach for conflict resolution 14. 13. Architecture of production system 15. conclusion 16. Prepositional Logic 17. Proposition, tautologies 18. Theorem proving in prepositional logic 19. Semantic method of Theorem proving 20. forward chaining 22. standard theorems in prepositional logic method of substitution 24. theorem proving using Wang' algorithm, conclusion 7. 25. Predicate, well formed formula clause form 28. inflict of predicates 29. unification algorithm, resolution 30. Robinson's inference rule, conclusion 10. Logic Programming and Prolog: - Logic	Work Load (Lecture) per v	week (In hours):	Lecture-4
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theorem proving using Wang' algorithm, conclusion 7. 25. Predicate Logic: - Alphabet of First order logic (FOL) 26. predicate, well formed formula 27. clause form, algorithm for writing sentence into clause form 28. inflict of predicates 8. 29. unification algorithm, resolution 30. Robinson's inference rule, conclusion 31. Logic Programming and Prolog: - Logic		22.	standard theorems in prepositional logic
algorithm, conclusion 7. 25. Predicate Logic: - Alphabet of First order logic (FOL) 26. predicate, well formed formula 27. clause form, algorithm for writing sentence into clause form 28. inflict of predicates 8. 29. unification algorithm, resolution 30. Robinson's inference rule, conclusion 31. Logic Programming and Prolog: - Logic		23.	method of substitution
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27. clause form, algorithm for writing sentence into clause form 28. inflict of predicates 8. 29. unification algorithm, resolution 30. Robinson's inference rule, conclusion 31. Logic Programming and Prolog: - Logic		26.	
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30. Robinson's inference rule, conclusion 31. Logic Programming and Prolog : - Logic		28.	inflict of predicates
31. Logic Programming and Prolog: - Logic	8.	29.	unification algorithm, resolution
		30.	Robinson's inference rule, conclusion
program		31.	Logic Programming and Prolog: - Logic program

	32.	Horn clause
9.	33.	
9		program for scene interpretation
	34.	unification of goals, definite perform clause
-	35.	SLD resolution, SLD tree, controlling
	33.	back tracking
_	36.	common use of cut
10.	37.	Implementation of backtracking using
	57.	stack
<u> </u>	38.	risk of using cuts
<u> </u>	39.	fail predicate, application of cut-fail
	33.	combination
-	40.	replace cut-fail by not, conclusion.
	40.	replace cut-fall by flot, collectusion.
	41.	Default & Non monotonic reasoning: -
11.		Axiomatic theory
	42.	non-atomic reasoning using NML-I
	43.	problems with NML-I
	44.	reasoning with NML-II
12.	45.	truth maintenance system with
		example, conclusion
	46.	Imprecision & Uncertainty
	47.	Definition, Probabilistic technicians,
		Fuzzy reasoning
	48.	certainty factor based reasoning
13.	49.	conditional probability
	50.	Baye's Theorem and its limitations
	51.	Bayesian belief network
	52.	propagation of belief
14.	53.	Dampster-Shafer theory of uncertainty
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		management
	54.	Types of Learning
	54. 55.	
		Types of Learning
		Types of Learning Introduction to Genetic algorithm Intelligent Search Technique
15.	55. 56. 57.	Types of Learning Introduction to Genetic algorithm Intelligent Search Technique Heuristic function
15.	55. 56.	Types of Learning Introduction to Genetic algorithm Intelligent Search Technique
15.	55. 56. 57.	Types of Learning Introduction to Genetic algorithm Intelligent Search Technique Heuristic function

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Name of the	Faculty:		Er. Savita Khurana
Discipline:			B.Tech (IT)
Semester:			$7^{ ext{th}}$
Subject:			Advanced Computer Networks (IT-415 N)
Lesson Plan Duration:			15 weeks(July, 2019 to Dec., 2019)
Work Load (Lecture) per week (In hours):		eek (In hours):	Lecture-4
Week	Lecture	Topic	
	1.	Introduction: Overview of	
	2.	computer netw	vorks,

Week	Lecture	Topic		
	1.	Introduction: Overview of		
	2.	computer networks,		
	3.	seven-layer architecture,		
1.	4.	TCP/IP suite of protocols etc.		
2.	5.	MAC protocols for high-speed		
	6.	LANs, MANs and wireless LANs.(For		
	7.	example, FDDI,		
	8.	DQDB,		
3.	9.	HIPPI,		
	10.	Gigabit Ethernet,		
	11.	Wireless Ethernet etc.)		
	12.	Fast access technologies (For		
4.	13.	example: ADSL,		
	14.	Cable Modem etc.)		
	15.	Assignment/Class Test		
	16.	Overview of IPv6		
5.	17.	IPv6 & TCP/IP stack		
	18.	IPv6 protocol architecture		
	19.	IPv6 address basics, address notation, unicast address, multicast		
		address		
	20.	IPv6 headers		
6.	21.	Routing table problem, static & automatic address configuration,		
	22.	neighbor discovery, stateless address auto configuration		
	23.	Interoperation concepts of IPv4/IPv6		
	24.	Assignment/Class Test		
7.	25.	Mobility in networks, Mobile IP		
	26.	Security related issues in mobile IP. IP Multicasting		
	27.	Multicast protocols		
	28.	address assignments		
8.	29.	session discovery		
	30.	Network security at various layers. Secure-HTTP		
	31.	SSL		
	32.	ESP		
9.	33.	Authentication header,		
	34.	Key distribution protocols		
	35.	Digital signatures, digital certificates		
	36.	Revision		

10.	37.	Assignment/Class Test	
	38.	Wireless Applications Protocols	
	39.	applications environment,	
	40.	wireless application protocol client software,	
	41.	do	
11.	42.	wireless application protocol gateways,	
	43.	do	
	44.	implementing enterprise wireless application protocol strategy	
12.	45.	do	
	46.	security issues in Wireless LAN.	
	47.	Wireless network management,	
	48.	do	
13.	49.	GPRS	
	50.	VOIP services.	
	51.	Network Management: Introduction, LAN	
	52.	do	
14.	53.	SNMP	
	54.	CMIP	
	55.	Issues in the management of large networks	
	56.	do	
15.	57.	Multicast: IGMP,	
	58.	PIM,	
	59.	DVMRP	
	60.	Assignment/Class Test	

Name of the Faculty:		Er. Vipul Gupta	
Discipline:		IT	
Semester:		7th	
Subject:		Software Project Management (IT-423 N)	
Lesson Plan Duration:		15 weeks (July, 2019 to Dec., 2019)	
Work Load (Lecture) per v	week (In hours):	Lectures-04	
Week	Lecture	Topic	
	1.	Introduction Evolution of software economics	
	2.	do	
	3.	Improving software economics	
1.	4.	do	
2.	5.	reducing product size	
	6.	do	
	7.	software processes	
	8.	do	
3.	9.	Software environments	
	10.	do	
	11.	team effectiveness	
	12.	do	
4.	13.	automation through Software	
		environments	
	14.	do	
	15.	Principles of modem software	
		management	
	16.	Framework	
5.	17.	Life cycle phases	
	18.	do	
	19.	inception	
	20.	elaboration	
6.	21.	construction the and training phase	
	22.	Artifacts the process artifact of sets	
	23.	management artifacts	
	24.	engineering artifacts,	
7.	25.	pragmatics artifacts	
	26.	Model software architectures based	
	27.	do	
	28.	Workflows of the process	
8.	29.	do	
	30.	Checkpoints of the process	
	31.	Software Management Disciplines	
	32.	Iterative process planning	
9.	33.	do	
	34.	Project organizations and responsibilities	
	35.	do	
	36.	Process automation	
10.	37.	Project control and process	

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		Lesson	Plan	
Name of the		Dr. Vandana		
faculty: Discipline:				
		IT		
Semeste		5 th		
Subject	Code:	IT-405N		
Subject		Fundamentals of Entrepren	eurship	
Lesson		15 Weeks		
Duratio	n:			
Work I	oad:	Lecture-4		
Week	Lecture	Class	Topic/Chapter Covered	
	Day			
1 st	L1	B.Tech IT- 7 th Semester	Concepts & Definitions of Entrepreneurship	
	L2	B.Tech IT- 7th Semester	Entrepreneurship & Economic	
			Development	
	L3	B.Tech IT- 7th Semester	Classification of Entrepreneurs	
2 nd	L4	B.Tech IT- 7th Semester	Types of Entrepreneurs	
	L5	B.Tech IT- 7th Semester	Types of Entrepreneurship	
	L6	B.Tech IT- 7th Semester	Entrepreneurial Competencies	
7th	L7	B.Tech IT- 7th Semester	Factors affecting Entrepreneurial Growth	
			(economic & Non Economic)	
	L8	B.Tech IT- 7th Semester	EDP Programms	
	L9	B.Tech IT- 7th Semester	EDP Programms	
4 th	L10	B.Tech IT- 7th Semester	Entrepreneurial Training	
	L11	B.Tech IT- 7th Semester	Traits & Qualities of an Entrepreneur	
	L12	B.Tech IT- 7th Semester	Manager vs. Entrepreneurs	
5 th	L13	B.Tech IT- 7th Semester	Entrepreneurs vs. entrepreneurship	
	L14	B.Tech IT- 7th Semester	Entrepreneurship vs enterprise	
	L15	B.Tech IT- 7th Semester	Entrepreneurial Opportunity Search &	
			Identification	
6th	L16	B.Tech IT- 7th Semester	Entrepreneurial Opportunity Search &	
			Identification	
	L17	B.Tech IT- 7th Semester	Criteria to Select a Product	
	L18	B.Tech IT- 7th Semester	Conducting Feasibility Studies	
7 th	L19	B.Tech IT- 7th Semester	Conducting Feasibility Studies	
	L20	B.Tech IT- 7th Semester	Project Finalization	
	L21	B.Tech IT- 7th Semester	Project Finalization	
8 th	L2	B.Tech IT- 7th Semester	Source of Information	
	L22	B.Tech IT- 7th Semester	Definitions of Small Scale, , Objective,	
			Scope,	
	L23	B.Tech IT- 7th Semester	Rationale of SSI	
9 th	L24	B.Tech IT- 7th Semester	Role of SSI in Economic Development in	
			India	
	L25	B.Tech IT- 7th Semester	SSI Registration	
	L26	B.Tech IT- 7th Semester	NOC from Pollution Board	
10 th	L27	B.Tech IT- 7th Semester	Machinery & Equipment Selection	

	L28	D Took IT 7th Competer	Drainet Banart Branaration
	LZŏ	B.Tech IT- 7th Semester	Project Report Preparation
	L29	B.Tech IT- 7th Semester	Project Report Preparation
11 th	L30	B.Tech IT- 7th Semester	Specimen of Project Report
	L31	B.Tech IT- 7th Semester	Planning & Scheduling using Networking Techniques of PERT/CPM
	L32	B.Tech IT- 7th Semester	Planning & Scheduling using Networking Techniques of PERT/CPM
12 th	L33	B.Tech IT- 7th Semester	Methods of Project Appraisal
	L34	B.Tech IT- 7th Semester	Methods of Project Appraisal
	L35	B.Tech IT- 7th Semester	Director of Industries DIC, SIDO, SIDBI, SIDC, SISI, NSIC, NISBUD, State financial Corporation SFC
13 th	L36	B.Tech IT- 7th Semester	Director of Industries DIC, SIDO, SIDBI, SIDC, SISI, NSIC, NISBUD, State financial Corporation SFC
	L37 Add On's	B.Tech IT- 7th Semester	Business Objectives
	L38 Add On's	B.Tech IT- 7th Semester	Marketing Management
14 th	L39 Add On's	B.Tech IT- 7th Semester	Production Management
	L40 Add On's	B.Tech IT- 7th Semester	Finance Management
	L41 Add On's	B.Tech IT- 7th Semester	Business Environment
15 th	L42	B.Tech IT- 7th Semester	Human Resource Management
	L43	B.Tech IT- 7th Semester	Export Marketing
	L44	B.Tech IT- 7th Semester	Case Study
16 th	L45	B.Tech IT- 7th Semester	Case Study
	L46	B.Tech IT- 7th Semester	Business Plan Writing
	L47	B.Tech IT- 7th Semester	Final Submission of Business Plan
	L48	B.Tech IT- 7th Semester	Revision Unit –I
	L49	B.Tech IT- 7th Semester	Revision Unit - II
	L50	B.Tech IT- 7th Semester	Revision Unit – III
	L51	B.Tech IT- 7th Semester	Revision Unit – IV

Name of the Faculty		Er. Pooja Sharma	
Discipline		B.Tech-IT	
Semester		7 th Sem	
Subject		Server-side Programing (IT-407 N)	
Lesson Plan Duration		15 weeks(July, 2019 to Dec., 2019)	
Workload		Practical-3	
Week	Practical		
	Practical day	Topic	
1.	1	Create a Subroutine with arguments passing & call the subroutine for specific no. of time.	
2.	2	Write a program in ASP which define an object & then display the properties of object with method.	
3.	3	Write a program in ASP to display present day, month & date. Also display digital clock.	
4.	4	Write a program in ASP which will check that a specific file, folder & drive exists or not. Also return the extension of file. Then use the read & write properties on a file using text-stream object.	
5.	5	Send information to the user after he submit the form using GET & POST method & implement from validation.	
6.	6	Write a program in ASP that has a form taking the user's name as input. Store this name in a permanent cookie & whenever the page is opened again, then value of the name field should be attached with the cookie's content.	
7.	7	Viva- voce	
8.	8	Use ad-rotator to change advertisements on client side request.	
9.	9	Create a session dictionary using object tag. In session-on start add keys for time, user agent, remote I.P. & add appropriate values. Create a simple page to display the values.	
10.	10	Implement session tracking using user authentication.	
11.	11	Write a program to delete all cookies of your web site that has created on the client's computer.	
12.	12	Write a program is ASP to check the capabilities of the browser using browser capability component.	

13.	13	Using data base to store & retrieves values input by a user showing them & make updating & add new records to existing database.
14.	14	Create two ASP pages, a form creation web page (selectprice.asp) and a form processing script (liststockbyprice.asp). In selectprice.asp, the user should be shown a form in which he can enter the item & desired maximum price. When it is submitted liststockbyprice.asp will return all the stocks from database whose cost are less than the price entered by user.
15.	15	Viva-voce

Name of the Faculty		Er. Deepti Chauhan
Discipline		B.Tech-IT
Semester		7 th Sem
Subject		Mobile Application Development Lab (IT-409
		N)
Lesson Plan Duration		15 weeks(July, 2019 to Dec., 2019)
Workload		Practical-3
Week	Practical	
	Practical day	Topic
1.	1	Develop an application that uses GUI components, Font and Colours.
2.	2	Write an android application that demonstrates activity life cycle.
3.	3	Develop an application that uses Layout Managers and event listeners.
4.	4	Develop a native calculator applications.
5.	5	Write an android program to change the background of your activity.
6.	6	Write an application that draws basic graphical primitives on the screen.
7.	7	Develop an application to demonstrate the use of String.xml file.
8.	8	Implement an application that implenets multi-threading.
9.	9	Develop a native application that uses GPS location information.
10.	10	Implement an application that writes data to the SD card.
11.	11	Implement an application that creates an alert upon receiving a message.
12.	12	Write a mobile application that creates alarm clock.
13.	13	Develop a sign-in page with appropriate validation.
14.	14	Develop a real life application that makes use of database.
15.	15	Develop an application to demonstrate the use of Google Maps in Android.