Lesson Plan (Odd Semester)

Name of the Faculty : Rakesh Gupta

Discipline : Computer Engineering
Department : Computer Engineering

Semester : 5th

Subject : Computer Networks

Lesson Plan Duration: 15 weeks (from July, 2018 to Dec., 2018)

**Work load (Lecture / Practical) per week(in hours): Lectures-04, practicals -02

		Theory		Practical		
Week	Lect. day	Topic (Including assignment / test)	Pract. Day	Торіс		
1st	1st	1. Networks Basics : Concept of network Models of network computing		Recognize the physical topology of a network		
	2nd	Networking models Peer-to –peer Network Server Client Network	1st			
	3rd	Network Services		Recognize the cabling (coaxial, OFC, UTP,		
	4th	Concept of switching Switching Techniques	2nd	STP) of a network		
2nd	1st	Revision	1 .	Recognition and use of various types of		
	2nd	2. OSI Model : OSI Reference Model	1st	connectors RJ-45, RJ-11		
	3rd	OSI Reference Model		Recognition and use of various types of		
	4th	Function of various layers in OSI Reference Model	2nd	connectors BNC and SCST		
3rd	1st	Function of various layers in OSI Reference Model	- 1st	Recognition of network devices like Switches, Hub of access points for Wi-Fi		
	2nd	Function of various layers in OSI Reference Model	181			
	3rd	Revision		Recognition of network devices like Routers of		
	4th	3. Introduction to TCP/IP : Concept of physical addressing	2nd	access points for Wi-Fi		
4th	1st 2nd	Concept of logical addressing	1st	Making of cross cable		
	3rd	IPV4 addressers- Address space, Notations Classful Addressing, Classless Addressing, Network Address Translation	2nd	Making of straight cable		
	4th	Different classes of IP addressing				
5th	1st	special IP address	1 .	Install a network interface card in a		
	2nd	Sub netting	1st	workstation.		
	3rd	super netting		Configure a network interface card in a		
	4th	Loop back concept	2nd	workstation.		
6th	1st	IPV4 packet Format		Identify the IP address of a workstation and the		
	2nd	IPV6 packet Format	1st	class of the address		
	3rd	Revision		Configure the IP		
	4th	4. Network Architecture :Ethernet Specification	2nd	Address on a workstation		
7th	1st	Ethernet Standardization	1 04	Revision		
	2nd	10 Mbps (Traditional Ethernet)	1st			

	3rd	10 Mbps (Fast Ethernet)	2.1	Managing user accounts in windows
	4th	1000 Mbps (Gigabit Ethernet)	2nd	
8th	1st	Introduction to Media Connectivity	1 .	Managing user accounts in LINUX
	2nd	Leased lines	1st	
	3rd	ISDN	21	Study of sub netting of IP address
	4th	PSTN	2nd	
9th	1st	RF	1 _{at}	Demonstration of sub netting of IP address
	2nd	DSL	1st	
Ī	3rd	VSAT	2.1	Revision
	4th	Optical and IPLC	2nd	
10th	1st	Revision		Use of Netstat
	2nd	5. Connectivity devices :Network connectivity Devices	1st	
Ī	3rd	NICs	2.1	Use of Netstat and its options.
Ī	4th	Hubs, bridges	2nd	1
11th	1st	Repeaters, switches	1st	Revision
	2nd	Multiplexers	181	
	3rd	Modems	2nd	Connectivity troubleshooting using PING
	4th	Routers	ZIId	
12th	1st	Gateways	1st 2nd	Connectivity troubleshooting using IPCONFIG
	2nd	Revision		
	3rd	6. Network Trouble Shooting Techniques : Introduction		Connectivity troubleshooting using IFCONFIG
	4th	Trouble Shooting process		
13th	1st	Trouble Shooting Tools: PING	1.04	Revision
	2nd	IPCONFIG	1st	
	3rd	IFCONFIG	2nd	Installation of Network Operating
	4th	NETSTAT	ZIIG	System(NOS)
14th	1st	TRACEROOT	1.4	Installation of Network Operating
	2nd	Wiresharp/ Dsniffer/ Pcop	1st	System(NOS)
	3rd	Revision	2nd	Installation of Network Operating
	4th	7. IEEE : 802.11- Architecture		System(NOS)
15th	1st	802.11- Architecture	- 1st	Visit to nearby industry for latest networking
	2nd	Bluetooth- Architecture		techniques
Γ	3rd	Bluetooth- Architecture	2nd	Revision
	4th	Revision		

Lesson Plan (Odd Semester)

Name of the Faculty : Dharmveer Saini

Discipline : Computer Engineering
Department : Computer Engineering

Semester : 5th

Subject : Software Engineering

Lesson Plan Duration: 15 weeks (from July, 2018 to Dec., 2018)

**Work load (Lecture / Practical) per week(in hours): Lectures-03, practicals -NIL

Theory

Week	Lecture day	Topic (Including assignment)	ent / test)					
1st	1st	Introduction to Software Engineering: Introduction, Programmes v/s Software Products						
	2nd	Emergence of Software Engineering- Early Computer Programming, High-level						
	3rd	Control flow based Design						
2nd	4th	Data Structure Oriented Design						
•	5th	Object Oriented Design						
	6th	Revision of unit I						
3rd	7th	Software Life Cycle Models						
	8th	Requirement of Life Cycle Model						
•	9th	Classic Waterfull Model						
4th	10th	Advantages and Limitations of Classical model						
	11th	Prototyping Model						
ŀ	12th	Evolutionary Model						
5th	13th	Spiral Model						
•	14th	Comparison of different Life Cycle Models						
	15th	Revision of Unit II						
6th	17th	Software Planning: Responsibilities of Software Project Manager						
	18th	Metrics for Project Size Estimation- LOC(Lines of Code)						
	19th	Function Point Metric						
7th	20th	Project estimation Techniques: Need and Types						
	21st	COCOMO Model and its variants.						
	22nd	Halstead's Software						
8th	23rd	Revision of Unit III						
	24th	Class Test of Unit I, II, III						
	25th	Requirement Analysis and Specification						
9th	26th	Requirement gathering and Analysis						
	27th	Software Requirement Specifications(SRS)						
	28th	Characteristics of good SRS						
10th	29th	Formal Specification Technique						
	30th	Revision of Unit IV						
	31st	Software Design and Implementation						
11th	32nd	Characteristics and features of good Software Design Cohesion and Coupling,						
	33rd	Software design Approache- Function Oriented Design						
12th	34th	Software design Approache- Object Oriented Design						
	35th	<u> </u>	Structured Coding Techniques					
46:1	36th	Coding Styles, documentation						
13th	37th	Software Testing:Concept of Testing						
	38th	Verification v/s Validations						
4.411	39th	Types of testing: Unit Testing						
14th	41st .	BlackBox Testing,White Box Testing						
	42nd	Integration testing						
454	43rd	System testing						
15th	44th	Software Quality and Maintenance						
	45th	Introduction to Capability Maturity Model						
	46th	ISO9000 and Six Sigma, Configuration						

Name of the Faculty : Krishan Singh

Discipline : Computer Engineering
Department : Computer Engineering

Semester : 5th Subject : RDBMS

Lesson Plan Duration : 15 weeks (from July, 2018 to Dec., 2018)
**Work load (Lecture / Practical) per week(in hours): Lectures-03, practicals -04

	Theory			Practical		
Week	Lect. day	Topic (Including	Pract.	Tonio		
	Lect. day	assignment / test)	Day	Торіс		
1st	1st	1. Relational Model: Relational Model Concepts:	1st	Installing SQL Server.		
	130	Domain, Attributes, Tuples and Relations.	130			
	2nd	Relational constraints and relational database	2nd			
		schemes				
	3rd	Domain constraints, Key constraints and	3rd			
		constraints on Null.	4th	UnInstalling SQL Server.		
2nd	1st	Relational databases and relational database schemes	1st	Creating database objects.		
	2nd	Entity integrity, referential integrity and foreign key	2nd	Creating database objects.		
	3rd	2. Functional dependencies and Normalization:	3rd	Creating database objects.		
		Concept of Normalization, Need of Normalization,	4th	Creating database objects.		
3rd	14	Non-loss decomposition and functional dependencies,	1	Creating database objects.		
	1st	Trivial and Non Trivial dependencies	1st			
	2nd	Closure of a set of dependencies and attributes.	2nd	Modifying database objects.		
	3rd	Normalization: First, Second and Third normal	3rd	Modifying database objects.		
		forms, Boyce/Codd normal form	4th	Modifying database objects.		
4th	1st	Multi Valued dependency 5 NF.	1st	Modifying database objects.		
	2nd	3. Relational Calculus and Algebra: Operations,	2nd	Modifying database objects.		
	2nd	Tuple Calculus, Domain Calculus	ZIIG			
	3rd	Example of Query language based on tuple	3rd	Modifying database objects.		
			4th	Modifying database objects.		
5th	1st	Example of Query language based on domain	1st	Modifying database objects.		
	2nd	4. SQL Components and Data Definition Language: SQL's basic objects, data types	2nd	Modifying database objects.		
	3rd	Aggregate functions	3rd	Removing database objects.		
			4th	Removing database objects.		
6th	1st	Scalar functions, null values	1st	Working with queries involving joins, correlation		
	2nd	Creating database objects	2nd	Working with queries involving joins, correlation		
	3rd	Modifying database objects	3rd	Working with queries involving joins, correlation		
			4th	Working with queries involving joins, correlation		
7th	1st	Removing database objects.	1st	Working with queries involving joins, correlation		
	2nd	5. Queries and Data Manipulation Language : Insert statement	2nd	Working with Subqueries		
	3rd	Update statement	3rd	Working with Subqueries		
			4th	Working with Subqueries		
8th	1st	Delete statement, Select statement	1st	Working with Subqueries		

	2nd	Queries and sub- queries, different clauses of select statement	2nd	Working with Subqueries
	3rd	Join operator	3rd	Working with set operators.
			4th	Working with set operators.
9th	1st	Correlated sub-queries, derived tables.	1st	Working with set operators.
	2nd	6. Stored procedures and User defined functions : Procedural extensions	2nd	Working with set operators.
	3rd	IF statement	3rd	Working with set operators.
			4th	Creating and using stored procedures
10th	1st	WHILE statement	1st	Creating and using stored procedures
	2nd	Local variables	2nd	Creating and using stored procedures
	3rd	Try and catch statements	3rd	Creating and using stored procedures
			4th	Creating and using stored procedures
11th	1st	Stored procedures	1st	User defined functions.
	2nd	User defined functions, system catalog.	2nd	User defined functions.
	3rd	7. Indexes, Views and Security: Guidelines for	3rd	User defined functions.
		creating and using indexes	4th	User defined functions.
12th	1st	Creating and using views	1st	User defined functions.
	2nd	Advantages and disadvantages of views, security system of database engine, database security	2nd	Creating indexes.
	3rd	Roles, authorization: grant, deny, revoke statements.	3rd	Creating indexes.
			4th	Creating indexes.
13th	1st	8. Triggers: Introduction to triggers	1st	Creating and using views
	2nd	Creating and using triggers	2nd	Creating and using views
	3rd	Creating and using triggers	3rd	Creating and using views
			4th	Using and understanding grant statement
14th	1st	Database level triggers	1st	Using and understanding grant statement
	2nd	Database level triggers	2nd	Using and understanding revoke statement
	3rd	Server level triggers	3rd	Using and understanding deny statement
			4th	Creating database triggers.
15th	1st	Server level triggers	1st	Creating database triggers.
	2nd	Revision	2nd	Using database triggers
 	3rd	Revision	3rd	Using database triggers
			4th	Using database triggers

2 Features Visual Basic 3 history of Visual Basic 2nd 4 Revision 3rd Exercise on all the menus of opening window of VB 5 Assignment 6 applications of VB 3rd 7 concept of integrated development 8 Assignment 9 project application like standard Exe 4th 10 ActiveX EXE application , ActiveX DLL 7th Active-X EXE and Active-X control 11 Class test 12 VB Structure Variable declaration types 5th 13 user defined data types - scope and life of a variable 14 Arrays - constructors 15 control flow statements 16 Procedures and functions. 17 Revision 18 Test 19 Designing the User Interface 20 Design aspects of VB forms 21 Elements of user Interface 14th Exercise on design form like traffic lights			I		
Name of the Faculty: Ajay Singh Discipline: Computer Engg. Semester: 5th Subject: VISUAL BASIC Lesson Plan Duration: 16 Weeks (From July, 2018 to Nov, 2018) Work Load (Lecture/Practical) per week (In Hours): Lectures-03, Practical - 06) Practical Theory Practical	Lesson	Plan of Oc	ld Semester		
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Semester : 5th Subject : VISUAL BASIC Lesson Plan Duration : 16 Weeks (From July, 2018 to Nov, 2018) Work Load (Lecture/Practical) per week (In Hours): Lectures-03, Practical - 06) Theory Practical Day Topic(Including assignment/test) Practical Day Ist 1st Introduction to Visual Basic 1st Introduction to Visual Basic 2pd Introduction Features of VB 3 history of Visual Basic 2nd Introduction Features of VB 3 history of Visual Basic 2nd Introduction Features of VB 4 Revision 3rd Exercise on all the menus of opening window of VB 5 Assignment 2pening window of VB 6 applications of VB 4th Revision 5rd		Name of t	he Faculty : Ajay Singh		
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9th	25	control arrays	17th	Practical checking and
				testing
	26	Class test		
	27	Menus and Common Dialogue Control	18th	Exercise on small
				application using
				appropriate commands
10th	28	Creating menus at design time using	19th	Practical checking and
		menu design window		testing
	29	control menus and runtime		
	30	create shortest keys for pop up menus	20th	Writing programs using
				arrays
11th	31	Revision	21th	Practical checking and
				testing
	32	Common Dialogue control.		
	33	Display date, time,	22th	Exercise on menus
12th	34	string type conversion and Printing	23th	Practical checking and
		Information		testing
	35	Data reports and environments		
	36	display tabular data in report form	24th	Exercise on Common
				Dialogue control
13th	37	fundamentals of	25th	Revision
		printing		
	38	printing with print form method.		
	39	Data Base Programming	26th	Practical checking and
				testing
14th	40	Connecting with database, using DAO,	27th	Exercise on creating reports
	41	Connecting with database, using RDO		
	42	Connecting with database, using ADO	28th	Practical checking and
				testing
15th	43	Revision and Class test	29th	Exercise on Data base
				connectivity
	44	Working with inbuilt Active X,		
	45	Windows common control,	30th	Practical checking and
				testing
16th	46	creating own Active X	31th	Exercise on creating own
		through Active X control,		active X, component
	47	Active X EXE,		
	48th	difference between EXE and DLL	32th	Practical checking and Testing