Name of the Faculty : Reenu Sharma Discipline : Computer Engg.

Semester : 6th

Subject : Network Security

Lesson plan duration : 15 weeks Theory-4hr, Practical-3hrs

Lecture Day Practical Day If west 1st Introduction: Need for securing a network 1st Introduction: Need for securing a network 1st Introduction and comparison of various and virus software Type of attacks Type of attacks	Week	1	Theory : 15 weeks Theory-4hr, Practical-3hrs	1	Practical
Day Introduction: Need for securing a network 1	vv eek	Lecture	<u>·</u>	Practical	
Introduction Intr			Topic (including assignments /tests)		Topic
Particles of Security Type of attacks Type	1st Week		Introduction: Need for securing a network		Installation and comparison of various anti virus software
Work 2 1 1 Introduction to cycle entropy to stanck control to the control to the control to the cycle of the cycle		2 nd	Principles of Security		
Copher crime & cyber law-Indian Perspective (IT Act 2000 and anended 2008), 2		3 rd		2nd	
Practice of C language Practice of C language	Week 2	1 st	cyber crime & cyber law-Indian Perspective (IT	1st	Practice
Week 3		2 nd			
Veck 3 1 Assignment on Cyber crime 2 2 Securing Data over Internet: Introduction to basic encryption and decryption Concept of symmetric and asymmetric key cryptography 2nd Practice of C language			,	2nd	Practice of C language
Securing Data over Internet: Introduction to basic encryption and decryption Concept of symmetric and asymmetric key cryptography 2nd Practice of C language	Week 3	1 st	Assignment on Cyber crime	Ziid	Tractice of C language
Week 4 1" Assignment on cryptography 2nd Practice of C language		2 nd	Securing Data over Internet: Introduction to	1st	Practice of C language
Practice of Clanguage Practice					
Veck 3 1 1 Assignment on cryptography 1 1 Virtus, Worms and Trojans: Introduction & Definition 2 2 2 2 2 3 3 3 3 3		3 rd			
2 2 3 4 2 5 5 7 5 7 5 7 5 7 5 7 7				2nd	Practice of C language
Study of VPN. Study of VPN. Study of VPN. Hands On Study of VPN. Hands On Study of VPN. Hands On Study of Various hacking tools. Study of various hacking tools.	Week 4			=	
Seek 5		2 nd	Test	1 st	Writing program in C to Encrypt using XOR key.
Week 5 1st		3 rd	Overview of DES, RSA and PGP		
Test Study of VPN. Study					
Veck Partice Practice Practice Practice Practice Practice				2 nd	Practice
Meek Practice Practice Practice	Week 5	1 st	Introduction to Hashing: MD5, SSL	1 et	
Week 1 Practice Practice		_	Introduction to Hashing: MD5, SSL, SSH, HTTPS,	- 131	
Week Part Digital Signatures, Digital certification, IPSec 2 nd Assignment on Hashing 1 st Study of VPN.		3 rd	Digital Signatures, Digital certification	and	
2nd Assignment on Hashing 1st Study of VPN.	W1- C	1 ct	D''' 1 G'	2""	Practice
Test Study of VPN.	week 6	_			
Week 7 1st Virus, Worms and Trojans: Introduction & Definition 1st Virus, Worms and Trojans: Introduction & Study of VPN. 2nd preventive measures – access central checksum verification & process configuration 2nd Study of VPN. Week 8 1st Assignment on Virus, Worms and Trojans Virus scanners & Heuristic scanners 1st Hands On Week 9 1st Deploying virus protection 2nd Assignment & Test 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools.		Ziid	Assignment on Hashing	1 st	Study of VPN.
Week 7 1st Virus, Worms and Trojans: Introduction & Definition 1st Virus, Worms and Trojans: Introduction & Study of VPN. 2nd preventive measures – access central checksum verification & process configuration 2nd Study of VPN. Week 8 1st Assignment on Virus, Worms and Trojans Virus scanners & Heuristic scanners 1st Hands On Week 9 1st Deploying virus protection 2nd Assignment & Test 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools. The Week 9 1st Study of various hacking tools.		3 rd	Test		
Virus, Worms and Trojans: Introduction & Definition Preventive measures – access central 2nd 2			1400		
Definition 1st Study of VPN.				2 nd	Study of VPN./Hands On
2nd	Week 7	1 st		1 st	Study of VPN
3rd Checksum verification & process configuration 2nd Study of VPN./Hands On		2 nd	preventive measures – access central	1	Study of VIIV.
Week 8 1st Assignment on Virus, Worms and Trojans 2nd Virus scanners & Heuristic scanners 3rd Application level virus scanners 2nd Hands On Week 9 1st Deploying virus protection 2nd Assignment & Test 3rd Firewalls: Definition and types of firewalls 2nd Study of VPN./Hands On Hands On Study of various hacking tools.			*		
Week 8			F		
2nd Virus scanners & Heuristic scanners 1st Hands On				2 nd	Study of VPN./Hands On
Total Seamer's & Treathsite Seamer's Total Seamer's Total Seamer's	Week 8	_	Ü		
Week 9 1st Deploying virus protection 2nd Hands On 1st Study of various hacking tools. 3rd Firewalls: Definition and types of firewalls 2nd Study of various hacking tools. 2nd Study of various hacking tools./Hand On		2 nd	Virus scanners & Heuristic scanners	1 st	Hands On
Week 9 1st Deploying virus protection 2nd Hands On 1st Study of various hacking tools. 3rd Firewalls: Definition and types of firewalls 2nd Study of various hacking tools. 2nd Study of various hacking tools./Hand On		3 rd	Application level virus scanners		
Week 9 1st Deploying virus protection 2nd Assignment & Test 1st Study of various hacking tools. 3rd Firewalls: Definition and types of firewalls 2nd Study of various hacking tools./Hand On			Application level virus scalliers		
Week 9 1^{st} Deploying virus protection 2^{nd} Assignment & Test 1^{st} Study of various hacking tools. 3^{rd} Firewalls: Definition and types of firewalls 2^{nd} Study of various hacking tools./Hand On Week 1^{st} Firewall configuration				2 nd	Hands On
2nd Assignment & Test 3rd Firewalls: Definition and types of firewalls 2nd Study of various hacking tools./Hand On Week 1st Firewall configuration	Week 9	1 st	Deploying virus protection		
		2 nd	- · · · ·	1	
2nd Study of various hacking tools./Hand On Week 1st Firewall configuration				1 st	Study of various hacking tools.
Week 1st Firewall configuration		3^{rd}	Firewalls: Definition and types of firewalls		
Week 1st Firewall configuration				2 nd	Study of various hacking tools./Hands
		1 st	Firewall configuration		
	10		-		
2 nd Limitations of firewall. 1 st Study of various hacking tools./ Hand On		2 nd	Limitations of firewall.	1 st	Study of various hacking tools./ Hand On

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Name of the Faculty : Yashvir Singh, Lecturer in Computer Engg.

Discipline : Computer Engg.

Semester : 6^{th} Subject : EDM

Lesson plan duration : 15 weeks Theory-3hr

Lesson plan	duration :	15 weeks Theory-3hr
Week		Theory
	Lecture Day	
1st Week	1 st	Concept /Meaning and its need of Entrepreneurship
	2 nd 3 rd	Qualities and functions of entrepreneur
		Barriers in entrepreneurship
Week 2	1 st	Sole proprietorship and partnership forms of business organisations
	2 nd	Schemes of assistance by entrepreneurial support agencies at National, State, KVIB,
	3 rd	District level: NSIC
Week 3	1 st	District level: NRDC & DC:MSME
WCCK 3	2 nd	
	3 rd	District level: SIDBI & NABARD, District level: Commercial Banks, SFC's TCO, KVIB, &DIC
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Week 4	1 st	Technology Business Incubator (TBI) and Science and Technology Entrepreneur Parks (STEP).
	2 nd	Assignment on Entrepreneurship
	3 rd	Test
Week 5	1 st	Market Survey and Opportunity Identification
	2 nd	Scanning of business environment
	3 rd	Salient features of National and State industrial policies and resultant business
	1 ot	opportunities
Week 6	1 st 2 nd	Types and conduct of market survey
	3 rd	Assessment of demand and supply in potential areas of growth
W/1- 7	1 st	Identifying business opportunity
Week 7	2 nd	Considerations in product selection Assignment on Market Survey
	3 rd	Test
Week 8	1 st	Project report Preparation
WCCK 6	2 nd	Preliminary project report
	3 rd	Detailed project report including technical & economic feasibility
Wash 0	1 st	Detailed project report including market feasibility
Week 9	2 nd	Common errors in project report preparations
	3 rd	Exercises on preparation of project report
Week 10	1 st	Assignment on project report
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2 nd	Test
	3 rd	Introduction to Management: Definitions and importance of management
Week 11	1 st	Functions of management: Importance and Process of planning, organising, staffing, directing and controlling
	2	Principles of management (Henri Fayol, F.W. Taylor) Concept and structure of an organisation Types of industrial organisations: a) Line organisation b) Line and staff organisation c) Functional Organisation
	3rd	Test
Week 12	1 st	Leadership Definition and Need
		Qualities and functions of a leader
		Manager Vs leader
		Types of leadership
	2 nd	Motivation: Definitions and characteristics
		Factors affecting motivation
	3 rd	Theories of motivation (Maslow, Herzberg, McGregor) Assignment on Leadership & Motivation
Week 13	1 st	Test
,, cor 13	2 nd	
	2114	Management Scope in Different Areas: Human Resource Management Introduction and objective
		Introduction to Man power planning, recruitment and selection
	3 rd	Introduction to performance appraisal methods Material and Store Management
	3	Material and Store Management Introduction functions, and objectives
		ABC Analysis and EOQ
Week 14	1 st	Marketing and sales
		Introduction, importance, and its functions
		Physical distribution
		Introduction to promotion mix

		Sales promotion		
	2 nd	Financial Management		
		Introductions, importance and its functions		
		Elementary knowledge of income tax, sales tax, excise duty, custom duty and		
		VAT		
	3 rd	Assignment on Management Scope in Different Areas		
Week 15	1 st	Miscellaneous Topics :		
		Customer Relation Management (CRM) & Definition and need □ Types of		
		CRM		
	2 nd	Total Quality Management (TQM)		
		Statistical process control		
		Total employees Involvement		
		Just in time (JIT)		
	3 rd	Intellectual Property Right (IPR): Introductions, definition and its importance		
		Infringement related to patents, copy right, trade mark		
		Infringement related to patents, copy right, trade mark		

Name of the Faculty : Yashvir Singh .Discipline : Computer Engg.

Semester : 6th
Subject : Project
Lesson plan duration : 15 weeks

Subject	:	Project
Lesson pla	an duration :	15 weeks
Week		Practical
	Practical Day	Topic
1st Week	1 st	Selection of Project
	2 nd	Selection of Project
Week 2	1 st	Finalization of Project
	2 nd	Finalization of Project
Week 3	1 st	Outline of Project
	2 nd	Outline of Project
Week 4	1 st	Planning of Project
	2 nd	Planning of Project
Week 5	1 st	Execution of Project
	2 nd	Execution of Project
Week 6	1 st	Execution of Project
	2 nd	Execution of Project
Week 7	1 st	Execution of Project
	2 nd	Execution of Project
Week 8	1 st	Execution of Project
	2 nd	Execution of Project
Week 9	1 st -G	Execution of Project
	2 nd	Execution of Project
Week 10	1 st	Providing Solution of Problems
	2 nd	Providing Solution of Problems
Week 11	1 st	Production of Final Executed project
	2 nd	Production of Final Executed project
Week 12	1 st	Checking of Final Project
W 1 12	2 nd	Checking of Final Project
Week 13		

	1 st	Report writing
	2 nd	Report writing
Week 14	1 st	Seminar
	2 nd	Seminar
Week 15	1 st	Viva-Voce
	2 nd	Viva-Voce

Name of Faculty : Harish Kaushik
Discipline : Computer Engg.
Semester : 6th
Subject : MOBILE APPLIC

MOBILE APPLICATION DEVELOPMENT

Week		Theory		Practical		
	Lecture Day	Topic (including assignment/test)	Practical Day	Topic		
1 st	1	Introduction: Evolution of Mobile Computing, Important terminologies, Mobile computing functions	1	Write a program to demonstrate activity (Application Life Cycle)		
	2	Mobile computing security issues, Mobile computing Devices				
	3	Networks: Wired , Wireless , Adhoc, Comparison of wired and wireless mechanism				
	4	Various types of wireless communication technologies used in Mobiles, Antennas, Basics of Base Station and Medium access control and Mobile station.				
2nd	5	Architecture : Architecture of Mobile Computing, 3- Tier Architecture, Presentation (Tier-1), Application (Tier -2), Data (Tier – 3)	2	Write a program to demonstrate different types o layouts		
	6	Mobile computing through Telephony: Evolution through telephony				
	7	Wireless LAN: Introduction- Applications of WLAN, Infrared versus Radio Transmission				
	8	Features of WI-FI and WI-MAX, Bluetooth:Introduction and application				
3 rd	9	Global System for Mobile Communication (GSM): Introduction	3	Write a program to implemen simple calculator using text		
	10	GSM Architecture, GSM Entities (Basics only), Introduction to CDMA		view, edit view, option button and button		
	11	Comparison of FDMA, CDMA andIDMA.				
	12	Short Message Service (SMS): Mobile computing over SMS, Short Message Service,				
4 th	13	Strength of SMS, SMS Architecture	4	1. Write a program to		
5 th	14	Value added services through SMS, VAS Examples		demonstrate list viev 2. Write a program to		
	15	General Packet Radio Service (GPRS): Introduction,		demonstrate photo gallery		
	16	, GPRS Packet data Network, Applications for GPRS, Generic Applications,				
	17	GPRS Specific Applications, Limitations of GPRS, Features of 3G and 4G Data Service	5	Write a program to demonstrate Date picker and time picker		
	18	Mobile Operating Systems: Evaluation of Mobile Operating System-Handset Manufactures				
	19	and their Mobile OS- Mobile OS and their features		1		
	20	Linux Kernel based Mobile Or		1		

6 th	21	ANDROID : Android Versions, Features of Android,	6	with context menu and optio		
	22	Architecture of Android		menu		
	23	Android Market, Android Runtime				
	24	(Dalvik Virtual Machine) ANDROID SDK & ADT : Android SDK,				
7 th	25	Android Development Tool (ADT)	7	Develop an application to send		
	26	Installing and configuring Android, Android Virtual Device (AVD)		—SMS		
	27	ACTIVITIES & INTENTS : Understanding Activites				
Oth	28	activities and indents				
8 th	29	Calling built-in applications using intents, Fragments Displaying	8	Write a program to view, edit contact		
	30	Notifications User Interface : Views and Viewgroups				
		_ ·				
	31 32	Display Orientation , Action Bar, Listening for UI Notifications				
9 th	33	Basic Views : Textview, Button, Image	9	Write a program to send e-		
	34	Button, EditText, CheckBox, ToggleButton, RadioButton and		mail		
	25	RadioGroup Views,				
	35	ProgressBar View, Auto Complete Text View				
	36	Advanced Views : Time Picker View and Date Picker View,				
10 th	37	, List Views, Image View, Menus	10	Write a program to		
	38	Analog and Digital View, Dialog Boxes		demonstrate a service		
	39	Displaying Pictures & Menus with				
-	40	Views: Image View, Gallery View, ImageSwitcher, GridView - Creating the Helper Methods				
11 th	41	Options Menu, Context Menu	11	Write a program to		
	42	SMS, Phone: Sending SMS		demonstrate web view to display web site		
	43	Receiving SMS,		— uispiay web site		
12th	44 45	Making phone call Location Based Services : Obtaining the	12	Write a program to display map		
120	.5	Maps API Key- Displaying the Map, Zoom Control, Navigating to a specific location		of given location/position using map view		
	46	Adding Marker , Geo Coding and				
	47	reverse Geo coding Location Based Service and SQLite				
	47	Location Based Services: Obtaining the				
		Maps API Key, Displaying the Map, Zoom Control,				
13th	49	Navigating to a specific location	13	Write a program to demonstrate the application of		
	50	Adding Marker		intent class		
	51	Geo Coding and reverse Geo coding		_		
14th	52 53	Content Provider : Sharing data view contacts	14	Write a program to create a		
14(11	54	Add contacts, Modify contacts, Delete	14	text file in a external memory		
		Contacts				
	55	Storage : Store and Retire data's in Internal and External Storage				
	56	SQLite, Creating and using databases				
	57	Android Service : Consuming Web	15	Write a program to store and fetch data from SQL life		
15th	3,	Service lising HTTP				
15th	58	service using HTTP downloading binary Data,		database.		
15th						