

## Lesson Plan

**Name of the Faculty** : Er. Harpal Singh

**Discipline** : Computer Engg, Electrical Engg. & Mech. Engg.

**Semester** : 6<sup>th</sup>

**Subject** : **ENTREPRENEURSHIP DEVELOPMENT AND MANAGEMENT**

**Subject Code** : 120264

**Lesson Plan duration** : 15 weeks (from Feb, 2024 to June, 2024)

**Work load per week** : Lecture – 03

Week	Theory	
	Lecture Day	Topic (Including assessment/test)
1 <sup>st</sup>	1 <sup>st</sup>	<b>UNIT-1</b> Introduction: Concept /Meaning and need of entrepreneurship
	2 <sup>nd</sup>	Qualities and functions of entrepreneur and barriers in entrepreneurship
	3 <sup>rd</sup>	Sole proprietorship and partnership forms of business organization
2 <sup>nd</sup>	4 <sup>th</sup>	Schemes of assistance by entrepreneurial support agencies at National level organization
	5 <sup>th</sup>	Schemes of assistance by entrepreneurial support agencies at State level organization
	6 <sup>th</sup>	NSIC, NRDC, DC, MSME, SIDBI
3 <sup>rd</sup>	7 <sup>th</sup>	Commercial Banks, SFC's TCO, KVIB, DIC
	8 <sup>th</sup>	Technology Business Incubators (TBI) Science and Technology Entrepreneur Parks
	9 <sup>th</sup>	<b>UNIT-2</b> Market Survey and Opportunity Identification: Scanning of the business environment
4 <sup>th</sup>	10 <sup>th</sup>	Salient features of National and State industrial policies and resultant business opportunities
	11 <sup>th</sup>	Supply in potential areas of growth, Types and conduct of market survey & Assessment of demand
	12 <sup>th</sup>	Identifying business opportunity, Considerations in product selection
5 <sup>th</sup>	13 <sup>th</sup>	Converting an idea into a business opportunity
	14 <sup>th</sup>	Test/Assessment
	15 <sup>th</sup>	<b>UNIT-3</b> Project report Preparation, Preliminary project report
6 <sup>th</sup>	16 <sup>th</sup>	Detailed project report including technical, economic, market feasibility
	17 <sup>th</sup>	Common errors in project report preparations
		Exercises on preparation of project report, Sample project report

	18 <sup>th</sup>	<b>UNIT-4</b> Introduction to Management: Definitions and importance of management, Functions of management
7 <sup>th</sup>	19 <sup>th</sup>	Importance and process of planning, organizing, staffing, directing and controlling, Principles of management (Henri Fayol, F.W. Taylor)
	20 <sup>th</sup>	Concept and structure of an organization & Types of industrial organisations and their advantages
	21 <sup>st</sup>	Line organization, Line and staff organization & Functional Organisation
8 <sup>th</sup>	22 <sup>nd</sup>	Test/Assessment
	23 <sup>rd</sup>	<b>UNIT-5</b> Leadership: Definition and Need, Qualities and functions of a leader,
	24 <sup>th</sup>	Manager Vs leader, Types of leadership, Case studies of great leaders
9 <sup>th</sup>	25 <sup>th</sup>	Motivation: Definitions and characteristics, Importance of self motivation, Factors affecting motivation
	26 <sup>th</sup>	Theories of motivation (Maslow, Herzberg, Douglas, McGregor)
	27 <sup>th</sup>	<b>UNIT-6 (A)</b> Human Resource Management: Introduction and objective, Introduction to Man power planning, recruitment and selection
10 <sup>th</sup>	28 <sup>th</sup>	Introduction to performance appraisal methods
	29 <sup>th</sup>	<b>(B)</b> Material and Store Management: Introduction functions, and objectives of ABC Analysis and EOQ
	30 <sup>st</sup>	<b>( C )</b> Marketing and sales : Introduction, importance, and its functions, Physical distribution
11 <sup>th</sup>	31 <sup>nd</sup>	Introduction to promotion mix, Sales promotion
	32 <sup>rd</sup>	<b>(D)</b> Financial Management: Introductions, importance and its functions
	33 <sup>th</sup>	Elementary knowledge of income tax, sales tax, excise duty, custom duty and VAT, GST
12 <sup>th</sup>	34 <sup>th</sup>	<b>UNIT-7</b> Work Culture:- Introduction and importance of Healthy Work Culture in organization
	35 <sup>th</sup>	Components of Culture, Importance of attitude, values and behaviour
	36 <sup>th</sup>	Behavioural Science – Individual and group behavior, Professional ethics – Concept and need of Professional Ethics and human values
13 <sup>th</sup>	37 <sup>th</sup>	<b>UNIT-8 (A)</b> Basic of Accounting and Finance:- Meaning and definition of accounting
	38 <sup>th</sup>	Double entry system of book keeping, Trading account, PLA account and balance sheet of a company
	39 <sup>th</sup>	<b>(B)</b> Objectives of Financial Management, Profit Maximization v/s Wealth

		Maximization
14 <sup>th</sup>	40 <sup>st</sup>	<b>UNIT-9</b> Total Quality Management (TQM): <input type="checkbox"/> Statistical process control, Total employees Involvement
	41 <sup>nd</sup>	Just in time (JIT)
	42 <sup>rd</sup>	Intellectual Property Right (IPR): Introductions, definition and its importance, Infringement related to patents, copy right, trade mark
15 <sup>th</sup>	43 <sup>th</sup>	Test
	44 <sup>th</sup>	Assessment
	45 <sup>th</sup>	Revision

## Lesson Plan

**Name of faculty** : Divya  
**Discipline** : Computer Engineering  
**Semester** : 6  
**Subject** : Mobile Application Development  
**Lesson Plan Duration** : 16 Weeks

**Work Load (Lecture/ Practical) per week (in hours):** Lectures-03, Practical - 06

Week	Theory		Practical	
	Lecture day	Topic (including assignment / test)	Practical day	Topic
1st	1st	Introduction : Evolution of Mobile Computing, Important terminologies	1 <sup>st</sup> & 2 <sup>nd</sup>	Write a program to demonstrate activity (Application Life Cycle)
	2nd	Mobile computing functions, Mobile computing security issues		
	3rd	Mobile computing Devices, Networks: Wired , Wireless, Ad-hoc, Comparison of wired and wireless mechanism, Various types of wireless communication technologies		
2 <sup>nd</sup>	4 <sup>th</sup>	Antennas, Basics of Base Station and Medium access control and Mobile station	3 <sup>rd</sup> & 4 <sup>th</sup>	Write a program to demonstrate different types of layouts.
	5 <sup>th</sup>	Architecture of Mobile Computing, , 3-Tier Architecture		
	6 <sup>th</sup>	Mobile computing through Telephony: Evolution through telephony, Wireless LAN: Introduction - Applications of WLAN		
3rd	7 <sup>th</sup>	Infrared versus Radio Transmission, Features of WI-FI	5 <sup>th</sup> & 6 <sup>th</sup>	Write a program to implement simple calculator using text view, edit view, option button and button
	8 <sup>th</sup>	Features of WI-FI and WI-MAX., Bluetooth : Introduction and application		
	9 <sup>th</sup>	ANDROID : Android Versions, Features of Android		
4 <sup>th</sup>	10 <sup>th</sup>	Architecture of Android	7 <sup>th</sup> & 8 <sup>th</sup>	Write a program to demonstrate list view
	11 <sup>th</sup>	Android Market, Android Runtime (Dalvik Virtual Machine)		
	12 <sup>th</sup>	ANDROID SDK & ADT : Android SDK, Android Development Tool (ADT)		
5 <sup>th</sup>	13 <sup>th</sup>	Installing and configuring Android	9 <sup>th</sup> & 10 <sup>th</sup>	Write a program to demonstrate photo gallery
	14 <sup>th</sup>	Android Virtual Device (AVD), Understanding Activities, Linking activities and intents		
	15 <sup>th</sup>	Sessional test		
6 <sup>th</sup>	16 <sup>th</sup>	Calling built-in applications using intents, Fragments	11 <sup>th</sup> & 12 <sup>th</sup>	Write a program to demonstrate Date picker and time picker
	17 <sup>th</sup>	Displaying Notifications, User Interface : Views and View groups, Layouts		
	18 <sup>th</sup>	Display Orientation, Action Bar, Listening for UI Notifications		

7 <sup>th</sup>	19 <sup>th</sup>	Basic Views : Text view, Button, Image Button	13 <sup>th</sup> & 14 <sup>th</sup>	Develop an simple application with context menu and option menu
	20 <sup>th</sup>	EditText, CheckBox, Toggle Button,		
	21 <sup>st</sup>	RadioButton , RadioGroup Views		
8 <sup>th</sup>	22 <sup>nd</sup>	ProgressBar View, Auto Complete Text View	15 <sup>th</sup> & 16 <sup>th</sup>	Develop an application to send SMS
	23 <sup>rd</sup>	Advanced Views : Time Picker View		
	24 <sup>th</sup>	Date Picker View, List Views		
9 <sup>th</sup>	25 <sup>th</sup>	Image View, Menus	17 <sup>th</sup> & 18 <sup>th</sup>	Write a program to view, edit contact
	26 <sup>th</sup>	Menus		
	27 <sup>th</sup>	Analog and Digital View, Dialog Boxes, Displaying Pictures & Menus with Views		
10 <sup>th</sup>	28 <sup>th</sup>	Gallery View, ImageSwitcher, GridView	19 <sup>th</sup> & 20 <sup>th</sup>	Write a program to send e-mail
	29 <sup>th</sup>	Creating the Helper Methods		
	30 <sup>th</sup>	Sessional test		
11 <sup>th</sup>	31 <sup>st</sup>	Options Menu, Context Menu	21 <sup>st</sup> & 22 <sup>nd</sup>	Write a program to demonstrate a service
	32 <sup>nd</sup>	Sending SMS		
	33 <sup>rd</sup>	Receiving SMS		
12 <sup>th</sup>	34 <sup>th</sup>	Making phone call	23 <sup>rd</sup> & 24 <sup>th</sup>	Write a program to demonstrate web view to display web site
	35 <sup>th</sup>	Location Based Services		
	36 <sup>th</sup>	Obtaining the Maps API Key, Displaying the Map		
13 <sup>th</sup>	37 <sup>th</sup>	Zoom Control, Navigating to a specific location	25 <sup>th</sup> & 26 <sup>th</sup>	Write a program to display map of given location/position using map view
	38 <sup>th</sup>	Adding Marker, Geo Coding and reverse Geo coding		
	39 <sup>th</sup>	Content Provider		
14 <sup>th</sup>	40 <sup>th</sup>	Sharing data, view contacts, Add contacts, Modify contacts, Delete Contacts	27 <sup>th</sup> & 28 <sup>th</sup>	Write a program to demonstrate the application of intent class
	41 <sup>st</sup>	Storage : Store and Retire data's in Internal and External Storage		
	42 <sup>nd</sup>	SQLite, Creating and using databases		
15 <sup>th</sup>	43 <sup>rd</sup>	Android Service : Consuming Web service using HTTP	29 <sup>th</sup> & 30 <sup>th</sup>	Write a program to create a text file in external memory. Write a program to store and fetch data from SQL life database.
	44 <sup>th</sup>	Downloading binary Data, Downloading Text Content		
	45 <sup>th</sup>	Accessing Web Service		
16 <sup>th</sup>	Revision			

Lesson Plan				
Name of Faculty		DIVYA		
Discipline		Computer Engineering		
Semester		6 <sup>th</sup>		
Subject		Network Security		
Lesson Plan Duration		15 week Theory : 03,Practical:03		
Week	Theory		Practical	
	Lecture Day	Topic (including assignments /tests)	Practical Day	Topic
1 <sup>st</sup> Week	1 <sup>st</sup>	<b>Introduction:</b> Need for securing a network	1 <sup>st</sup>	Installation and comparison of various antivirus software
	2 <sup>nd</sup>	Principles of Security		
	3 <sup>rd</sup>	Type of attacks		
Week 2	1 <sup>st</sup>	Introduction to cyber crime & cyber law-Indian Perspective (IT Act 2000 and amended 2008),	1 <sup>st</sup>	Installation and study of various parameters of firewall
	2 <sup>nd</sup>	Cyber ethics & ethical hacking		
	3 <sup>rd</sup>	What is hacking? Attacker, phreaker etc.		
Week 3	1 <sup>st</sup>	Assignment on Cyber crime	1 <sup>st</sup>	Practice of C language
	2 <sup>nd</sup>	<b>Securing Data over Internet:</b> Introduction to basic encryption and decryption		
	3 <sup>rd</sup>	Concept of symmetric and asymmetric key cryptography		
Week 4	1 <sup>st</sup>	Assignment on cryptography	1 <sup>st</sup>	Writing program in C to Encrypt using XOR key.
	2 <sup>nd</sup>	Test		
	3 <sup>rd</sup>	Overview of DES, RSA and PGP		
Week 5	1 <sup>st</sup>	Introduction to Hashing: MD5, SSL	1 <sup>st</sup>	Writing program in C to Decrypt using XOR key.
	2 <sup>nd</sup>	Introduction to Hashing: MD5, SSL, SSH, HTTPS,		
	3 <sup>rd</sup>	Digital Signatures, Digital certification		
Week 6	1 <sup>st</sup>	Digital Signatures, Digital certification, IPsec	1 <sup>st</sup>	Study of VPN.
	2 <sup>nd</sup>	Assignment on Hashing		
	3 <sup>rd</sup>	Test		
Week 7	1 <sup>st</sup>	<b>Virus, Worms and Trojans: Introduction &amp; Definition</b>	1 <sup>st</sup>	Study of VPN./with Practical
	2 <sup>nd</sup>	preventive measures – access control		
	3 <sup>rd</sup>	checksum verification & process configuration		
Week 8	1 <sup>st</sup>	Assignment on Virus, Worms and Trojans	1 <sup>st</sup>	With Practical
	2 <sup>nd</sup>	Virus scanners & Heuristic scanners		
	3 <sup>rd</sup>	Application level virus scanners		

Week 9	1 <sup>st</sup>	Deploying virus protection	1 <sup>st</sup>	Study of various hacking tools.
	2 <sup>nd</sup>	Assignment & Test		
	3 <sup>rd</sup>	<b>Firewalls:</b> Definition and types of firewalls		
Week 10	1 <sup>st</sup>	Firewall configuration	1 <sup>st</sup>	Study of various hacking tools./ With Practical
	2 <sup>nd</sup>	Limitations of firewall.		
	3 <sup>rd</sup>	Assignment & Test		
Week 11	1 <sup>st</sup>	<b>Intrusion Detection System (IDS) :</b> Introduction & IDS limitations	1 <sup>st</sup>	With Practical
	2 <sup>nd</sup>	Teardrop attacks, counter measures; Host based IDS set up		
	3 <sup>rd</sup>	<b>Handling Cyber Assets-</b> Configuration policy as per standards		
Week 12	1 <sup>st</sup>	Disposable policy	1 <sup>st</sup>	Practical applications of digital signature.
	2 <sup>nd</sup>	<b>Virtual Private Network (VPN) :</b> Basics, setting of VPN,		
	3 <sup>rd</sup>	VPN diagram & Configuration of required objects		
Week 13	1 <sup>st</sup>	Exchanging keys, modifying security policy	1 <sup>st</sup>	Practice & Viva
	2 <sup>nd</sup>	Assignment		
	3 <sup>rd</sup>	Test		
Week 14	1 <sup>st</sup>	<b>Disaster and Recovery:</b> Disaster Categories	1 <sup>st</sup>	Domain Based Networking
	2 <sup>nd</sup>	Network disasters – cabling, topology		
	3 <sup>rd</sup>	Single point of failure, save configuration files		
Week 15	1 <sup>st</sup>	Server disasters – UPS, RAID, Clustering	1 <sup>st</sup>	With Practical
	2 <sup>nd</sup>	Backups, server recovery		
	3 <sup>rd</sup>	Assignment & Test		