#### MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY

#### COURSE FILE

Department	: Business Management	
Academic Year	: 2023-2024	Semester: III
<b>Course Details</b>		
Name of the Course	: MBA	
Branch/Specialization	: MBA	
Class	: II Year	
Name of the Subject	: Security Analysis & Portfolio Management	ī
Subject Code	:R21MBA20	
Nature of the Subject	: Regular	
Faculty Details		
Name of the Faculty	: Dr. P. Siva Reddy	
Designation	: Associate Professor	
Department	: Business Management	

#### **Check List**

Syllabus Copy	Tutorial Sheets
Time Table	Assignment Sheets
Students Attendance Register	Mid Exams Question Papers
Suggestions for study	Mid Exams Valued Scripts
Course Objectives	Mid Exam Marks Statement
Course Outcomes	Mid Exam Marks Assessment
Course Schedule (Expected)	Student Final Attendance Statement
Schedule of Instructions (Expected)	University Exam Question Papers
Details of Lectures Delivered	Faculty Feed back
Remedial Classes/ Makeup Tests	Hand Outs / Lecture Notes

Dr. P. Siva Reddy	Dr. G. Naveen Kumar	Dr. S. Srinivasa Rao
Subject Expert	HOD	Principal

#### 1. **Result objective:**

- 1.1 Pass Percentage:
- 1.2 Percentage above 60% of Marks:

#### 2. Course Plan:

- 2.1 Coverage of syllabus in 65 classes
- 2.2 By giving two assignments to students.

#### 3. **Method of Evaluation:**

3.1	Continuous Assessment Examinations	: Yes
3.2	Assignments / Seminars	: Yes
3.3	Mini Projects	: No
3.4	Subjective and Objective as per University Norms	: Yes
3.5	Others: (Please Specify)	:

4. List of Additional Topics / Topics-Beyond-Syllabus or any Innovation

#### **TEACHING LEARNING PROCESS**

#### 1. Methodologies /Teaching Aids:

- a. Blackboard and white board
- b. Chalk, Duster and whiteboard marker
- c. Power Point presentation
- d. In the first five minutes of the class, asking the questions of the previous class to assess how thorough the students with the subject
- e. Interactive sessions.
- f. Giving some topics for seminar

#### 2. Guidelines for the Students to Study the Subject:

- a. Understanding of the subject by using diagrams.
- b. Evaluation of every sub topic in each unit.
- c. Neat presentation through points of every unit helps score highest marks.

#### **OBJECTIVES OF THE SUBJECT**

#### On completion of this Subject / Course the Student shall be able to:

Aim of the Subject	Learning Outcome
To students are able to know the	The objective of this course is to provide the conceptual
investment alternatives, process	and Practical understanding of Stock markets Equity &
and portfolio management	Bond Valuation, Cash market and also Mutual funds.

Unit	Objectives	Outcomes
Ι	To create awareness among students about Investment environment in India.	Students came to know about Indian financial system, investment process and equity valuation.
II	To provide deeper knowledge on security analysis.	Students learned about various analysis strategies like fundamental and technical.
III	To educate and provide practical exposure on construction of portfolio.	Students came to learn about Markowitz and Sharpe Models of portfolio construction with problems.
IV	To know about bonds, their valuation and pricing theories of bonds.	Students were able to understand bonds and their application.
v	To provide basic inputs and knowledge on mutual funds and their performance.	Students were came to know about mutual funds, types, and different models of investment calculations.

#### COURSE SCHEDULE (Expected)

Expected date of completion of the whole Subject / Course and rema	arks, if any:
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Units	Topics	No. of Classes	Dates
I	Overview of Indian Financial System; Investment Alternatives; Investment Management Process. Equity Analysis & Valuation; models of equity valuation, PE Ratio, Balance Sheet model & Multiplier Approach.	12	25-09-2023 to 19-10-2023
П	Fundamental Analysis; Economic, Industry &Market Technical analysis and tools. Data sources for both fundamental and technical analysis.	12	30-10-2023 to 18-11-2023
III	Portfolio Models: Markowitz, Sharpe, Mean variance Approach; portfolio selection, Efficient Portfolios. Capital Asset Pricing Theory & Arbitrage Pricing Theory	12	20-11-2023 to 09-12-2023
IV	Bond Analysis; types of bonds, Interest rates & structure, Yield to Maturity, maturity period return. Bond duration, Active and Passive Bond Management, Bond Immunization, Bond Volatility – Bond Convexity.	12	11-12-2023 to 30-12-2023
V	Mutual Funds; Types; structure-NAV calculation. Performance evaluation of Mutual Funds- Sharpe Model, Treynor Model, Jensen Model, Fama decomposition.	12	

#### **Remarks:**

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#### Internal Examinations Schedule:

Exam	MID	Ι	MIL	) II
Date	From	То	From	То

	UNIT – I			
To create awareness among students about Investment environment in India.		<b>Outcome:</b> Students came to know about Indian financial system, investment process and equity valuation.		
S. NO.	Subjects topics	No of Classes	Text book reference	
1	Indian Financial System	2	T1	
2	Stocks trading in Indian Market	1	T1	
3	Investment Alternatives	1	T1	
4	Investment Process	2	T1	
5	Balance sheet analysis	2	T1	
6	Multiplier Approach	2	T1	
7	Equity Models	2	T1	
	UNIT – II			
<b>Objective:</b> To provide deeper knowledge on security analysis. <b>Objective:</b> To provide deeper knowledge on security analysis. <b>Outcome:</b> Students learned about various analysis strategies like fundamental and technical				
S. No.	Subject topics	Theory	Text book reference	
1	Fundamental Analysis	2	T1	
2	Technical Analysis	2	T1	
3	EMH Model	2	T1	
4	Data sources	2	T1	
5	Data analysis	2	T1	
6	Decision Making	1	T1	
	UNIT – III			
<b>Objective:</b> To educate and provide practical exposure on construction of portfolio <b>Outcome:</b> Students came learn about Markowitz and Sharpe Models of portfol construction with problems		udents came to Markowitz and Is of portfolio vith problems.		
S. No	Subject topics	Theory	Text book reference	

1	Return & Risk	1	T1
2	Calculation of risk	1	T1
4	Calculation of return	1	T1
5	Markowitz model	1	T1
6	Sharpe model	1	T1
7	CAPM Model	1	T1
8	APT model	1	T1
9	calculations	1	T1
	UNIT – IV		
<b>Object</b> theorie	<b>ive</b> : To know about bonds, their valuation and pricing s of bonds.	<b>Outcome:</b> able to und and their appl	Students were erstand bonds ication.
S. No	Subject topics	Theory	Text book reference
1	Bonds & Types	1	T1
2	Interest rates	1	T1
3	YTM Model	2	T1
4	Interest types	2	T1
5	Yield calculation	1	T1
6	Bond management	2	T1
7	Bond management	2	T1
	UNIT – V		
<b>Objective</b> : To provide basic inputs and knowledge on mutual funds and their performance.		Outcome: S came to know funds, types, models of calculations.	Students were v about mutual and different investment
S. No	Subject topics	Theory	Text book reference
1	Mutual funds	1	T2
2	Types of mutual funds	1	T2
3	NAV calculation	1	T2

4	Sharpe model	1	T2
5	Treynor Model	1	T2
6	Jensen model	1	T2
7	calculation	1	T2

#### Text books:

- T1: Punithavathy Pandian, SAPM, Vikas Publication, Latest Edition.
- T2: Kevin, SAPM,, Sultan Chand & Sons, latest edition.

Signature of the Faculty

Signature of the HOD

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# Course:MBA II Year I SEMAcademic Year:2023-24Name of the Subject: Security Analysis & Portfolio ManagementPrescribed Textbook: Punithavathy Pandian, Vikas Publications, Latest Edition.Nature of the Subject: Specialization- Finance- Paper

#### **Course Aim:**

To students are able to know the investment alternatives, process and portfolio management

#### **Learning Outcomes:**

The objective of this course is to provide the conceptual and Practical understanding of Stock markets Equity & Bond Valuation, Cash market and also Mutual funds.

#### Unit-I: Investment Environment in India

**Introduction:** Overview of Indian Financial System - Securities Trading in Stock Markets - Investment Alternatives - The Investment Management Process.

**Negotiable Securities & Non-negotiable Securities:** Primary Market: Types of New Issues-Parties to New Issue & Secondary Market.

#### **Unit-II: Security Analysis**

Security Analysis: Economic Analysis, Industry Analysis & Company Analysis- Earnings of the Company, Financial Analysis, Growth in Earnings.

Technical Analysis: Dow Theory, Efficient Market Hypothesis, Random Walk Theory, Support and Resistance Levels, Odd Lot Trading Moving Averages.

#### **Unit-III: Portfolio Analysis**

**Models and Theories:** The Returns and Risks from Investing - Markowitz Portfolio Theory - Mean-Variance Approach.

**Portfolio Selection:** Efficient Portfolios - The Single Index Model - Capital Asset Pricing Model - Arbitrage Pricing Theory.

#### Unit-IV: Bond Analysis & Valuation & Management

**Bond Analysis:** Types of Bonds - Interest Rates - Term Structure of Interest Rates - Measuring Bond Yields - Yield to Maturity - Yield to Call - Holding Period Return.

**Bond Pricing Theorems:** Bond Duration - Active and Passive Bond Management Strategies - Bond Immunization - Bond Volatility - Bond Convexity.

#### **Unit-V: Mutual Funds**

**Mutual Funds:** Types of Mutual Funds Schemes - Structure - NAV (Net Asset Value) - Risk and Return. Performance Evaluation Models: Sharpe Model - Treynor Model - Jensen Model - Fama's Decomposition. Exchanger Traded Funds: Types of ETFs and Trading Process.

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#### I Investment One

Investment is the employment of funds on assets with the aim of earning returns or capital appreciation.



Investment has two attributes namely fime & risk. present consumption is sacrified to get return in future is the common activity of individual.

Bullish → means market is increasing Bearish → unconstant increase and decrease → Risk - probability of getting loss Expected outcome - actual outcome CFA - Certified Financial Analyst 2. Objectives of envestment :-

The core objective of any investment is getting higher returns by balancing or managing potential visk factors.

balt culi

Potential The objectfives are as follows: <u>Intervised +1</u> i) <u>Returns</u> <u>Real Pake of Return</u> <u>(Intervised +1)</u>-1 <u>(i) Returns</u> <u>are the motivational factors</u>, <u>Returns are the motivational factors</u>, <u>Returns are the Migher return than lesser</u> <u>investor always refer to higher return than lesser</u>

return.

(i) Riskon managing Riski-Risk can be defined as variability of returns or the probability of getting loss on of returns. At a Certain or specific rate of investments. At a Certain or specific rate of return investor refers low security than the security which carries higher risk.

itin Liquidity: Ability to convert into cash is called liquidity. Diquidity means ability to convert into Cash or currency of any asset. (iv) Hedging:- (against inflation) Since inflation is there, people loose the purchasing power of currency. If they did not get higher returns on the funds which they are hold in. when the returns are higher than inflation rate, the real rate of return is positive to the investor.

J

(18) Safety or Security of "investment:-

Investment environment is uncertain in nature. Some of the "investment carries higher security than others. Usually fixed income securities carries zero risk or less to risk, variable income securities carries bigher risk characteristics.

## 3. Investment process ..

Investment process involves a Series of activities starts from identifying the best-investment alternatives to execution of the activities. Usually the process can be divided into 5 stages as follows:

i) investment policy -> objectives > Investible Fund (i), investment analysis ciù, finvestment value Portfolio Construction IV, n'apla.P Portfolio evaluation. N. Evenyre dde amouru u 623 LI prestor expectations and Obj stancetter expression and from fire regular and continuous retur Investorent Higg Repital appreciation trusone musquul sprotenting a share a share s no cess Some of the investors make with own funds, some may go with 4 portfolio constructio 26037 combination of these two -1 Diverstication allocation ep borrows and make smeeting about investment environment Hore on investor should fire on the Pontfulio polises - PProusa evaluation Plenty or mong number of alternatives Revision

Scanned with CamScanner

It describes the proceedings and

ngt of investment formulation for the systematic proceeding of analysing expectations and constraints. Under this, the investor consider about Objectives, funds, knowledge/awareness.

Objectives :-

Investor expectations and objectives are different from one to another and from time to time period. They may be as follows: 1 Expecting regular and continuous returns 2 Expecting apital appreciation 3. Expecting large lumpsum amount 4 Periodical returns Investable funds:

Some of the investors make investments with own funds, some may go with borrowed funds | combination of these two The investor who borrows and make investment Carries higher risk.

Knowledge/awareness about investment environment :-

Here an "investor should focus on the available alternatives for investment, risk factors and concern returns. Plenty or many number of alternatives available in market where their characteristics are (?) Continuously changing.

2: Investment Analysis: - How - - - -

After formulating the investment, policy, investor must filter or scrutinize the best alternatives. For this we proceed in the following way:-

(i) Economic market analysis:-

An economy consist of various Sectors like primary, secondary, teritiary sectors. Analysing all these will be difficult thence, if the investor look at financial markets or stock markets, you can guess or experience what is happening in the market. Markets are the mirrors of an economy.

There are many industries which Contribute some output towards GDP, and each industry Corries specific characteristics. Some industries are Stable and growth (banking), some industries are growth industries (IT), some industries are cyclical. like electronic goods or white goods, petrochemicals, agri related firms. Investor can choose one based on these requirements and expectations.

attenatives together caued as portfolio

Investment Vs Speculation: destrong alt of aldolinian in the market. Component Investment - speculation 1. Time long term in nature is short term in nature nottoofficersvig (1) 2. Holding hold the investment more than one year Period from few days to few investment is less notherhoused adopted 3. Risk -factor Higher risk riskier than Speculation moderate returns high returns 4. Returns 5. Investment By making this Based on information decision analysis the select 1. Economic may come but from the ii- Industry "in company stand and sustained to an 6. Investable Investment made

funds

with own funds

speculation made with own + borrowed funds

## Investment Alternatives:-

Market is filled with many number

of investment alternatives, can be divided as

1. Fixed income Securities

2. Nariable income securities.

# 1. Fixed income securities:-

inpreference share: - It is the combination of characteristics from debentures, some characteristics of Ends are more secure than any equity shares 1 SVII CARAFTE (1) Debenture :-

tranuvizin rotihard a 21 th reasonation 1 ( nr) Bond

in money market instrument of muladob suppriment.

more secure in

2. Variable Encome Securities: 11 10 the mugo

These instruments provide higher risk to the investors, there are no guaranteed returns and sometimes, the capital or Investment also going to be losed. Those of "instruments are as follows:-

(1) (all money market (1) shares (1) commercial papers in Mutual funds (iii) uniquelinked insurance policies ete torrition in

@ Shares: It is the part of capital, the total capital, of the firm is equally divided into small denomination part and each part is called as share. The people who hold shares are considered as shareholders, theoritically Davis Contes are bonkers and the bonts of the firm. Share is the ownership instrument which provides rights and obligations to the holder. Obligation is to participate in decision making and utilizing voting rights. The right is expecting dividend when the

Bond:- Bonds are issued by public sector Undertaking With promised repayment of capital along with interest. Bonds are more secure than any other investment alternative.

Debentures: It is a creditor instrument, private sector firm issue debentures to rouse capital from public. Most of the cases debentures are unsecured in nature, the borrower promises to pay predetermined interest and capital repayment on maturity.

money market Instruments:- money market provides funds to the corporates or firms to meet working capital requirements Usually these instruments carries maturity period from one day to one year. The actively traded instruments are as follows:-

(i) call money market

(1) commercial papers (iii) certificate of deposits

(iv) treasury bills (v) money market mutual funds

(i) Call money mourket! where the funds are available from 1 day to 15 days, the most active participates are bankers and financial institutions to meet statutory reserves with RB2. If the money is lent for 1 day it is called call money. If it is more than I day till (cont in next page 15 days then called as noticed & page 15) money.

Classification and functions of financial Market:-Definition of financial market: A place where the ADUOTAL financial assets are created or transferred Eg: shares, debentures, bonds, mutual funds etc. companies can raise capital in five different Classification:-Based on time period :- capital & money market Based on buying & sellinger primary & secondary Capital Market: It is the place where the assets or investment available for long term. Firms or companies raise capital through these markets for expansion or diversification of their functions. This market facilitates the medium & large scale industries for fulfilling financial obligations by issuing instruments like shares, debenture, bonds etc. Money market is the place where resources are provided for short term for which the firms seek Support for working capital needs proceeds with these taxenergese py otterning service Instruments basis from existing shareholders 1. Call money market to rodia tor right issue con 2. Commercial papers of offer 3. Certificate of deposits (u) Bonus issues 4. Treasury bills 5. Money Market Mutual Funds. profit to existing shareholders by iscuirg

Primary Market: - Is the place new issues comes into the picture to meet the financial requirements, Companies raise capital through issue of securities like shares and debentures. that perutasish ered Companies can mase capital in five different issues :: i. IPO (Initial Public Offerings) ii. Rights fissue In. Bonus Essue proming sprilles & propud as here iv. Private Placement Costrol Market: 3+ is the place V. Bought out Deal prod rob stablique tremtesun ruise capital through these markets for exformation It is the most popular method of raising Capital or funds directly from the public. Company raise capital by issuing of prospectus (ii) Rights Pissue:-Money market is the place where It is the method of raising additional Capital or additional funds from the existing Shareholders by offering Security on proportionate basis from existing shareholders. money market for rights issue company release Letterof D. Commercial of offer 3. Certificate of deposity (III) Bonus issue 1-41. Treasury bills Sometimes companies distribute profit to existing shareholders by issuing

a. additional shares in the place of dividend. Bonus shares fisued in the matio of existing Shares to the shareholders. Companies materialise retained earnings by licsue of bonus shares. to IP (i) Functions of financial markets 1-2414 - (8) 111)

- 1. Mobilisation of savings and their channelization Sinto more productive uses
- 2. facilitates price discovery un torrow perchi
- 3. Provide liquidity to financial assets
- 4. Reduces the Cost of transactions. (cont to page-16) (cont from page-12) (11) Commercial papers :- Issued by private sector firms in the form of unsecured promisory note, usually the maturity period lies between 3 months to I year. The face value of CP is 5 lakhs and multiples of 5 lakhs, all the investors are eligible to make investments. (strong plings? pripart rot sidelings (111) Certificate OF deposits :- Commercial banks "issues

CD's to the common public, to meet the financial Obligations in short term. The maturity period lies 61 w 3 months to 1 year. Face value is 25-thousand and multiples of 25 thousand. (iv) Treasury bills:- In short form it is called as I bills. These instruments issued by central govis of concern nation, when the gout spending is higher, the collections or revenues is lesser

at these times, gout issue these bills. There are 4 types of T-bills (i) 14 days - 28 days (ii) at days maturity (iii) 182-days (iv) 364-days

(Money Market Mutual funds: The mutual fund Companies and "investment bankers make "investment in only the above 4 Securities are considered as money market mutual funds.

Secondary markete- resource (cont from Page - 15)

It is the segment of Capital Market, where the outstanding securifies are available for trading. Security market provides liquidity to the investors in long term, these markets operates in the medium of stock exchanges, which segurates the trading activities in the market. In India, Secondary markets are called as stock markets, we have NSE and BSE operates trading in national wide, there are some regional stock exchanges focused on local requirements of business parties or Organizations.

Security listing process: (secondary Markets) There are certain steps followed by the firms for listing the securitles, as follows: 1. The promoters should decide on which stock exchange they want to list their shares not stiple and states the Q. They should contact the exchange authorities with the method an excertisegab out and share proposal. 3. The company should discuss about the eligibility Criteria for listing 10002 2 19 19 1209 43 10000 - 1203 C 4. The company should submit memorandum, articles and sevent paires prospectus to the exchange. 5. The company finalise the three documents with association of exchange and finalise. 6. Securities must be offerred to the public and make allotment according to the considerations 7. Securities listed in the market submit required documents to the authorities. 8. Securities are available for trading in exchanges. Minimum Public Offer: protional and and A company which desires to list its securities in exchange should offer atleast 60% of issued capital for public subscription. Out of this 60%. a maximum of 11% may reserve for investment Ogencies like insurance companies, mutual fund agencies, investment bankers etc. The public offer must be made through prospectus, and also provide

advertisements in national and local newspapers.

Depositories is apte motival and avail

These are the people or parties who stores Shares in electronic form and provides security to the data which is in digital form. These parties also called as custodians produce sprodors out toothos bluede podi There are two depositories in India-102000rg 1. NSDL - National Securifies Depositories Ltd MOD 3MIT 2. CDSL - Central Depositories & securities Ltd. 4 The company should submit Cleaning thouse:erospectue to the exc Depositories work like Banking System:-A depository deals and holds Shares of the investors who holds the securifies, a bank holds funds who have accounts with them. The Similarities and differentiations are as follows -1. Bank hold cash, whereas depository holds securities in electronic form aurilable 2. Bank facilitates transfer of funds from one account to another, whereas depository facilitates transfer of Securities from one all to another. 3. Banks are meant for savings funds belongs to the public, whereas depository safeguards the securities a maximum of 11° (. may reser of "investors but on solution 4. Bank provides saving ale's to the public, whereas depositories provide 10-materialised all to the wordt be made investors.

Clearing house:for buying and setting of securifies there must be support and involvement of many partles called as intermediaries. The parties or middlemen involved in this transaction are -1. Brokerage firms branot 2. Banks stilles althour 1 ront office 3. Depositories in a ratio Tracke capture Bachward 1. Brokerage firms: Offers D-mat accounts to the Envestors, the buying and setting of securifies must complete through this alc only. The brokerage firm do the frontline activity 1.e., describing the requirements of investors like buying or setting of various In the second step the middlemen Validate Securifies. the request, completed by backend team (technical team), they send forward request to the sellers. Once the characteristics are matched the transaction is going to be completed in the following recession in the economy 1) The buyer receives the specified shares to the way !-D-mat account, funds must be transferred to the seller simultaneously. (i) Seller receive the funds from the buyer, transferred (delivered specified shares to the buyers D-mat ale

(iii) Depositories support for delivering and receiving shares from one D-mat all to another D-mat alc. Lise margine so tenn system Clearing process / Trade life cycle this 20 hours office H. if boulours nomethics : Brokeroge firms Order booling forward Front office middle office 22000 Trade capture order validation Backward Trade execution Order order confirmation execution 10 FNILLS2 forward ud YOTZYU, YI iord ant ·WAA backward in Back office. front line Clearing Esettlement accounts

-functions of stock exchanges / secondary markets in India:

1. markets are economic barrowmeter, every change appears in economy or country reflects in the prices of shares. The rise or fall of share prices resulted as as boom or recession in the economy.

2. market provides and facilitates fair price to the Securities, based on demand and supply of securities/shares. 3. most of the transactions are monitored and controlled by SEBI. Hence these transactions are Safe in nature.

buyers D-may ale

4. markets provides some contribution in economic (21) growth, in the exchange various investors buy and sell securifies. The process of disinvestment and resolvestment helps the investor to select most in profitable alternatives, resulted in capital formation and economic growth. 5. market spreads equity culture, it encourages people to Govest in ownership securifies noting summon 6. market provides speculation to the investors, they will guess the future of the market by considering information and news about economy and Endustry, nos sain pubboond I market provides liquidity to the financial assets, the investors can sell their holdings at any point of 8. market facilitates better allocation of capital to the best and profitable firms in long term. 9. market promotes the habit of savings and -actors, it impo convestmente among the public. Indices : (Index) of a uppund Losition , notion ant Index consist of group of shares or stock, belongs to same category like equity shares. An inder can be considered as a sample, which drags from total population. For example , 1. In NSE there are approximately 1900 companies listed, 50 stocks taken from the total and constructed Or created an "index (sample) namely NIFTY-50. 217, 49000 190

(outrouto) 2. BSE consist of more than 5000 stocks, 30 stocks were selected among the total and constructed an Index namely BSE SENSEX. Sensitivity index of profitable alternatives 30 stocks. 3. each stock market has its own index, considered as benchmark performance for any kind of market provides speculation to 14 m Share . Risk - Portfolio Theory: - all to pretate all 2000 monomio Broadly risk can be divided as two types: 1. Systematic risk which is uncontrollable 2. Onsystematic risk (controllable by the firm market facilitates better autocatio 1. Systematic Risks. The risk Caused by external factors, "it empacts all the firms, "industries, and markets as a whole. The economic conditions of the nation, political changes, sociological changes Empacts the entire market, is unavoidable in nature à prise atérier like equit sante lypes of Systematic Misks-10400 (04 be (0151) three types of - algorous of three are three gos lord most aport Systematic risk namely in Nise there listed, so stocks taken from the total sit itsame led 2. Interest rate risk (algoredrobni no botoon ro purchasing power Misk. 3.

(23) 1. Market sisk can be defined as the proportion of total variability of returns caused by the alternative -forces of bull and bear market betaituaranih bro Bull market provides the securifies and index moves from the lowest value to the peak levels or highest values over a period of fime. In bear market the value of securifies and finder collapse to the lowest level from ette peak level. over 10 ptilitabling to 2. Interest rate risk is the variation in the single period returns caused by the fluctuations in our market interest rate. Most commonly, investor prefers & higher returns at less risk or Zero risk. Bank deposits are much Safe investments than shares, at higher interest rates, investor prefers to switch his Investments from variable "income sources (Stock market of shares) to fixed income places or avenues. The relationship blus interest rates and stock market performance is inversely proportion 3. Aurchasing Power risk Inflationary risks variations in the returns are also Caused by the loss of purchasing power of currency. The reason is inflation which eradicates the purchacing power of currency. , erobot long ni esperal (3) At the time of higher inflation, public savings comes down, also the investments comes down. Operational efficiency of the firm. The

# 2. Unsystematic Risk:-

It is unique and specifie, and differentiated from industry to industry Unsystematic risk will be raised bcoz of technological changes, managerial inefficiencies, Changes in consumer preferences, labour problems, ete availability of now material ete Broadly unsystematic misk is divided int two types with it with and put bezund enviter (i) business nisk anno toot stat terrating (u) financial risk, vo della seal to envolve rampin (1) Business risk caused by the operating environment of the business which may be in the form of external or internal business Fisk. ship ble interest rate External risk is caused by the operating conditions. Emposed on the firm, which includes (a) risk factors due to political issues, changes in govt policies. prisonary to ead ant (6) nature of business and business life cycle. (c) changes in social factors, demographic conditions, etc. not other respect to smith ant-Internal business risk is resulted with the operational efficiency of the firm. The major

Market Bist (an be

enternation of 80: factors like (a) fluctuations in sales (6) problems with Gunovations and RED. wallof the returns are as follow (c) higherfixed cost (2) Concentrated segmentmarket [ single product. market (e) "inefficiency of personnel management. (ii) financial risk also called as financial leverage capital brading on equity. Doing business with borrowed funds is called as financial risk. Higher borrowings leads to higher payment of interest resulted less profit distribution to the the share holders. Portfolio theory and concept of risk management: Understanding the nature of the risk is not sufficient unless the investor or analyst is Capable of expressing in Some quantitative terms. It helps the finuestors to compare the finuestments and Stocks with one another. Measurements earnot be assured cent "le & accuracy 6003 risk is caused by many factors such as social, political, technologica Conomic and managerial efficiencies. The statistical tool often used to measure the risk is SD. 50= 1 5p(r-6(x)) - 1 2.3 MJal =

### Unit - II

## EQUILIBRIUM IN CAPITAL MARKETS

JO VO)

Efficient market:-

The expectations of investors regarding the fluture cash flows are translated or reflected on the share prices. The accuracy and quickness in which the market translates into the prices are called as market efficiency, those markets are called efficient markets. There are two types of market efficiencies 1. Operational efficiency, mission prisots and 2. Informational efficiency.

1. Operational efficiency: At stock exchanges operational efficiency is measured by factors like theme taken to execute the Order & the no. of bad deliveries market efficiency doesn't consider this factor for measuring its efficiency

2. Informational efficiency: - It measures the skarpness and fitness of the market reaction to the new information. The information may be in the form of (a) economic policy & reports (b) company statement & analysis (c) govt statement related to industry policy (d) tax structures (c) statutory reserves.

-> markets takes long time to adjust to the available information for cg. if a company announces bonus issue it reflects on its shares prices probably in the

positive way.

Bodow Water EMH and the start In 1900 a french mathematician namely Lowis Bechelier proposed that the security price fluctuations work random. It of any rods really In 1953, Kendall reported that stock price series is an unpredictable series of activities, they appeared randomly and each successive change is independent of the previous one of stoord sorrability looprigram In 1970, fama stated that efficient markets fully reflect the available information. If the markets are efficient, securities prices reflects normal returns for the specific slevel of mask is ups? bet purroting of Fama suggested that efficient market hypothesis can be divided into 3 types namely ... Striorno. is weak the man and have more thank form in, semi strong form visuppor to in, strong form potorts wint of an (J.x) approximate percentage (x.C) levels of information & the more the "I weak form of Efficient market Hypothesis (emff) (a) the type of information used in weak form is historical prices of stocks (Historical "information only) (b) future prices cannot be predicted by analysing the prices from the pastallo at the privat of privat

W current prices reflect all information found "In the past prices and traded volumes. (d) information traders lead the market, their work their share prices to align with the expected or 2 inthinsic value and that halvator linking (e) Buy and whole strategy doesn't work here, Short term traders may goin positive returns. Empirical evidence proofs to this forming soll Runs Test is used to find whether the series of price movements have occurred by a chance. A run is uninterrupted Sequence of given stock price for a. Specific period. There there there betrapped and If the sinformation provided of a stock, based on the closing prices investor identifies, whether the Stock listed positive or negative meturn. 2003 Filter rule: According to this strategy, if price of a security mases by atleast specific percentage (x.6) Investor buy the stock and hold it till price declines by atleast a specific percent(x:6) from the subsequent higher level, Short sellers use this strategy and generate profite in \* short selling) short sellers :- selling an asset without howing or holding it is called as short selling.

i, Semi strong form of EMH: It states that the securities prices adjust rapidly to all publicly available information. Such information sie as follows :-Portfollo managers who have 1. Corporate dividends · 2. Bonus and rights issue planing door noisonrofin 3. Mergers and aquisitions, nottornofal 2001-2001 4. Information from KRA (Key Resource Assessey) & Empirical Aridencerest provide maniform restord A few insiders can generate profits or short run trials changes than the investors who adopt buy and hold strategy. Whenever, a new information arrives to the market, the supply and demand factors of the stock reacts to the information. Empirical evidence: for ob 197 rom The professionals develop a simple regression technique to estimate returns from given stock. The regression line is sold and is the Sale and the Smith tel adoption bus 20072900 To return of security. Quipi = regression corefficients market return/index return e= error residual. rate of return. et an asset is having à limean Relationship with assels befolkalue i.e. Systematic risk . In Simple ter

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üißtrong form of EMHL:

It states that all information is fully reflected on stock prices. The investors or portfolio managers who have access to the information reacts quickly than the ordinary investors. Information whether it is public or inside annot be used consistently to generate higher returns in strong formation

Market discounts everything, i.e. it consider each kind of information and reflects on share prices is called market efficiency. If the market do not consider and donot react to the information that is called market inefficiency, those markets are finefficient markets.

Investors and portfolio managers prefer to make investments in efficient markets only.

CAPM Concept [Model (Capital Asset Pricing Model) 5-

As per this model the required rate of return, of an asset is having a linear delationship with assets betallalue i.e. Systematic. risk. In simple ter

Assumptions Exemptions of CAPM Model:-1. An individual seller or buyer cannot effect the price of a stock, the markets are perfectly competitive in nature: Mais Lo shruft if the investor borrows be 2. Investors make decisions based on expected return and the risk of given stocks. 3. Investors are assumed to have homogeneous expectations 4. The investor can lend or borrow any amount of funds at the miskless rate of interest also called as misk free rate of interest : is ball (and takent inti 5 Financial assets are "infinitely divisible, an investor can purchase any quantity of assets without any Emitations DE an efficient 6. There are no transaction charges. with apital marks 7. There is no personal income tax. 8. Short setting is available for all the securifies.  $CAPM = Rp = Rf x_{p} + Rm (1-x_{p})$ Rf : Risk-free rate of interest (usually consider the "interest rate on T- bills) Kf = proportionate of investment on risk free asset measured with securitu Rm = market return Index return for example, if the risk free rate of return is 12.5% and the market return is 20°l., if an investor made equal proportionate of investment, what is the portfolio return Sour Rp = 125x0.5+ 20x0.5 = 16.25 -> () Laub Vitrai
fundy If the investor made investment 100% in market, then the return is. To rodividual seller or Rp = 12.5x0+20x1 = 20 - 20 20 - 20 20 - 20 20 - 20012 0 If the investor borrows 50°L funds at risk free return and made total "investment in market. Now wip p siste site the portfolio return "is 0.5) TRO 2rotesurf Rp = 12.6x (-0.5) + 20 (1-(the "mysador can ler 2 23.75 ------ 3 servetar 10 (ML (apital Market Line) Model:trate of interest The risk and return relationship of an efficient portfolio ( efficient market) is measured with capital market return. The portfolio return can be calculated by short selfing is available Rp = Rf( Rm-Rf) appor Rp · Rf Xf + Rm SML (security Market Line) :-The sisk and return relationship of "individual securities and "inefficient portfolios can be measured with security market line. for a market return ind RStock = Rf+B (Rm-Rf) for example if the risk free mate of Rstock = return of stock \* B is the indicator of Systematic risk of an Individual stock or any francial asset only. 125×0.51 20

It is assumed that the market return is sol. @ Example: and Rf is 5%, the securities A, B, C, D carries B values of 0.8, 1, 1.2, 1.5. Now the expected return of each stock as! A 0.8 B c 1.2 g gorder to Up Dig bl.5 make un str pd la u plat Soli RA = 5to.8(8-5) = 7.4.1. mundelies equilibrium RB, 5+1 (8-5)= 8.6 t driv yournon botrosciemos Rc= 5+1.2(8-5)=8.6 %. Rp: 5+1.5 (8-5), 9.5%. It can be assessed that when all the remaining factors constant, the return of a stock directly proportionate with "its B value." Means if the Stock carries highest B value ( highest fisk) it gives highest probabilistic returns. arbitration. When a given stade Application of B. The benchmark return of Endustry is considered as return of index. 1. If B value is i' means that the market increases/ decreases by 1 point, the return of the stock also Gincreases decreases by 1 point. 2. If B value "is 0.5 means that if market increases decreases by 1 point, the meturn of stock also Increases decreases by 0.5

3. If B value is 1.5 means if the market increases/decreases by 1 point, the return of the Stock increases | declines by 1.5 woh 2.1 si 1. 1. 3. 5.4 Arbitrage Pricing Theory: [APT] A Arbitrage pricing theory is one of the Arbitvation: tools used by the "investors and portfolio managers to decide price for a given stock or portfolio. This theory explains the nature of equilibrium in the asset pricing in less Complicated manner with few assumptions. 3) 112-23 Arbitrage is a process of earning profit by taking advantage of differential pricing for the same asset. In the security market, investor prefers to purchase a stock at lower price, seil the same at higher price resulted stonoftrogore riskless profit "sonpit ) sulou a \* Buying and selling stocks simultaneously is called arbitration. When a given stock listed in more than one. Market, if the stock price varies from one market to another, it creates an opportunity to the investors. Assumptions of APT:-20 borsbizno) 1. The investors have homogeneous expectations of the 2. The investors have assarences about risk factors in the Increases decreases by market i to show it had a some 2.02 3. Perfect competition exist in the market. 4. There are no transaction charges.

Arbitrage Portfolios-According to APt, an investor tries to find out the possibility to increase returns from the portfolio without increasing the funds in the portfolio. If also means that the risk of the portfolio remains the same at lower returns as well as higher returns. for example: - an investor selects a portfolio with three Stocks namely A, B and c with the proportionate investment of XA, XB and XC can be defined as follows. XARA + XBRB + XCRC >0

repay the

(43)

X = proportion of "investment" The investor an atter proportionate of investments based on R= Rate of return of einvestment. the expected and actual meturns of the stocles.

A bond can be defined as a debtor instrument Bond Analysis :for long term debt, usually "issued by public sector firms and gout authorities. A typical bond may fissue for atleast 10 years and maximum maturity date of 25 years. The organization which raise capital through bonds, promises that they used repay the capital on maturity and payment of interest on installment basis in the basis Characteristics of a bond !- house philling 1. Bond is a debtor instrument which never been converts 2 Bonds generally carries a fixed maturity period with floating "interest rates, whenever the "interest on T-Bills changed. the coupon rate changes or varies.

3. All the bonds repay the principle amounts on maturity, of but the interest payment may be on perfordical basis or lumps. Payment on maturity.

Types of bonds: Bonds can be divided ento many types, but the popular bonds aret 1. fixed rate of bonds, carries fixed interest rate throughout the life. 2. floating rate bonds provides variable "interest rates based H3/MON On the norms and regulations born an 3 Zero interest rate bonds (discounted bonds) do not Carry any coupon rate but they were issued at discount on its face value and redeem at face value 4. Inflation linked bonds: These bonds provide variable returns to the "investor, the coupon rate depends on the Inflation rate: Here, the rate of interest is fixed by Considering the actual inflation rate, the return will be for lorg term debt, usu decided as follows and had in inflation rate + fixed rate of interest. Eq. If inflation, s. 1. + 1. 1. "interest rate = 6% coupon rate ... 5. Perpetual bonds (continuous bonds): means that there

is no fixed maturity period. Bonds which issue without mentioning maturity mate considered as perpetual bonds. The investors of these bonds can enjoy interest rate throughout the life of the bonds.

Bond return calculation -Bond returns can be calculated in two different ways?-'s applicable. 1. Holding period Return. . (MIN) plinuter of bisip is 2. Yield to maturily (YTM) 1. Holding period Returns. If an investor purchase a bond and sell "it after a certain period he carries two different returns namely fixed coupon rate and price goin on bond purchase. Holding period return also called as One perfod return (or) single period returns Holding period return 2 couponrate + price quin loss purchase price. for example: an investor purchases a bond at a price of 900/- with coupon payment of lool- and sold the bond at 1000/r, Now the return on the bond is Sou coupon rate = 100/-Coupon total purchase price = 900[-gain -100[-Resale = 1000[-100+100 = 200 = 0.22.1. Mry 200 - 201 HPR = 900 900 - 22.22 If the same bond sold at 7501 - with same characteristics. Now the HPR is 100 + 250 100 - 150 = -50 = -5.5.7.HPR = 900 contine page -> (69

\* If the bond investment is only for one year or ( less than one year, then only holding period return is applicable. 2 MARCH TASYS THE 2. Yield To Maturity (YTM):- grobal basing YTM is the single factor discount that makes the present value of future cash flows from a bond equal to the current price of the bord. Hence "it can be described that the rate of return which can investor can expect to earn if the bond holds till maturity. band purchase YTM= Coupon rate + (Premium condiscount/no. of years) in cromple is an inverte (Porte) see a bond of a price of Po = borred purchase price = or union Z = Setting preceat coursent year Eq. A four year bond with 7%. Coupon rate and maturity value of 1000/- is currently selling at 905 - Its YTM is 4778 Sol Coupon rate = 1000x7°[. = 70 YTM = 70+(95/4) = 0.098 2 9.8.1. = 9914 (contd on page -> (69))

## Unit-III

## SECURITY ANALYSIS

Security analysis is broadly divided into two types namely 1. fundamental analysis

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2. Technical analysis

1. Fundamental Analysis "is the study of economic factors, godustrial environment and the factors related to industrial

The entrinsic value of an equity share depends on multitude of factors. The earnings of the company, growth rate and risk exposure directly affect the share prices. By covering all these factors, fundamental analysis focussed on economic analysis, findustry analysis and company analysis.

teonomic Analysis: The level of economic activity has an "impact on "investment" in many ways. If the economy grow rapidly, the industries also expected to show rapid growth. Economic analysis covers the following Components, namely 1. GDP 2. Savings & investments

epromano 2013: Inflation d'aline alt alguers al A biomob ait y Interest rates and boo at the B. Budget most political toron hop 6. Tax structure

7. Balance of payment 8. Monsoon Ep agriculture SA ELENZINE 9. Infrastructure facilifies 2NOUMATINO) 10. Demographic Factoris.

Industry Analysis:

An industry can be defined as a group of firms that have similar technological structure of production and produce similar products. In an economy many industries exist, the performance of each industry shows impact on the economy as a whole. For better understanding, the industries classify as growth industries, cyclical industries and defensive industries.

Growth industries are those which list higher growth rate than growth rate of GDP. In India Service Sector industries like banking, IT and telecom is listing two digit growth, where as the expected GDP rate is above 7.5%.

Cyclical industries. The growth rate and the profitability of these industries more along with the business cycle of the industry. During the boom period these industries enjoy higher growth and during the recession or depression, they suffer to survive in the market. for example, the white goods like Ac's, aeforginators, smart TVs and other kitchen products commands a good market in the boom period and the demand for these decline during the depression.

Defensive industry: defines the movement of business cycle in a stable growth rate. This industry records confinuous growth rate irrespective of economic environment and conditions. Industries like pharma, food and textile

Comes under defensive industry. Apart from these three, (49) the envestor has to analyse the following factors ->growth level of the "industry -) cost structure and profitability -) nature of the product -) nature of the competition > govt potraies intrinung 21 server of january -> research & development and about pointed to the Company Analysis e-At most the above two conditions are Same for all the firms. Only few companies can perform better than other in the industry company analysis gives a clear picture to the investor for further proceedings . The factors like -> competitive edge. > Capital structure - combination of debt & equily -> level of earnings. -> management strategies > Operating efficiency & un certain assumption. reflects the share value of the firm in market. > Anancial performance (b) market discourse and yersu 2. Technical Analysis: Technical analysis is the process of identifying trend projections and trend reversal at an Carlier stage to formulate the buying and selling Strategies, with the help several indicators, investors analyse the relationship between price - volume and demand- supply for the overall market and the Individual stocks

-> In the raising market number of buyers are higher than the sellers where as "in falling market the number of sellers are higher than number of buyers -> Technical analysis proposed by Charles Dowin in 1984, the series of journals published in wall Street . Technical tools like i) Dow theory U.Snif. 2) Volume of trading. 3) Short selling u) Odd lot trading, line charts, bar charts, moving averages and oscillators are generally used for identifying & calculating market trend. () Dow Theory :-Charles Dow explain the moment of dow jones "index (indices), he develop this theory base on certain assumption. The first assumption is (a) NO single individual (or) buyer can influence the reflects the chare value of market trends. (b) market discounts everything > Based on trend projections to develop trend lines based on the prices of stocks & time period. itseland trank builder Increasing declining DAYS

(55) As per 9ts explanation the market trend is d'ivided into primary trend, intermediate trend, short term trend. Trend is the direction of moment of the values of "individual stock as well as "index value. The raise or fall "in share prices Cannot go in Sameway forever. The share price moment may reverse and charge ets direction is called as trend reversal. -> Primary trend:-The primary trend may be the broad upward or downward movement for a perfied of 2 years or more than 2 years. When the market is increasing its value continuously it is called as bull market. four extert . Even though the MAD Bull Market 201 rates in values 1050 ar bothe. > Bull market shows the three clear cut peak points. Each peak point is kigher than its previous peak Points. The bottoms also higher than its previous bottom. The three phases are named as revival, improvement in corporate profit, manini. Speculation (quessing activity)

(1) The reverse trend may called as bear market are shown as follows:



and where the

TIME PERIOD DE L'ELEN

Bear Market

FUSY IN OUNT

The bear market shows three clear cut down points, each down point/declining point is lesser than previous down point. Even though there are upper points, each peak point is lesser than its previous peak point.

The three phases in bear market are ) The investor lose hope on market, resulted in declining the share prices.

2) companies are reported with lesser profits and lesser dividends leads to disinvestment.

3) The share prices decline drastically turns the investors pessimistic view about the market and they hold no securifies.

> Intermediate Trend in Technical Analysis; It is the recovery or medium trend which runs for 3 weeks to 3 months. In this, corrections were happened in the market by Supporting the primary trend. where, the difference between the present bottom and the past bottom and the present peak point and the past peak must be increased or declined by 33° (. to 66° (. Corrections are nothing but filling the temporary gaps in the market due to various economic, industrial or bro zaloval inoquis Corporate factors. -Short term Trend: Deal and These trends also called as minor trends, which are results of Spontaneous or random activities of a company or of the market. In this the daily price fluctuations tends to correct the secondary trend movement. In this Pinvestors mainly focussed on current news and the speculative assumptions of the market. Short-term trends or minor trends establishes "Intermediary trend, these two together establish Primary trend usually for two to three years. and lower circuit

(2) Volume of Trading

indicators

It speaks about the total number of trades and the total number of scripts traded on a given day. volume expands along with bull trend and narrows in the bear market. At the time of expansion the individual stock prices may goes up at the time of narrow or decline, the stock prices comes down.

Support levels and Resistance levels:-

These two factors gain more importance in technical analysis. A support level exist at a price where considerable demand for the stock is expected, to prevent further decline in the price level. At this level, the demand for stock increases, resulted in price high

In the restistance, level the supply of stock would be greater than the demand and the further price declines from the peak level. theavy setting of the stock resulted in price decline. The same concept is applicable widely in commodity and derivative market with the names of upper Crowit and lower Circuit.

Breadth OF the market :-

The breadth of the market 95 the term used to study the advances and declines that have occurred in each day. Advances mean the number of shares whose price have increased from the previous days trading. Declines findicate the number of shares whose prices have fallen from the previous days trading. If the market is dominated by bulls, the stock prices and Endex Values Encreases, Ef the market 95 dominated by bears, the stock prices and index values, comes down. MOVING PHILEKOGE Short Selling short Sales ------It is the process of selling a Commodity, currency or financial asset without holding It when the future price levels are going to be declined than current market price, investors prefers to short Seuling. It is the most popular strategy in

derivatives training.

Odd lot training! In derivatives, the contracts trade in Site is decided by market authorities. lots, which the lot price is decided by market authorities. The lot Size may be vary from one asset to another, The lot Size may be vary from one asset to another, the market is dominated by professional investors the market is dominated by professional investors the market is dominated by professional investors

(55

the market said to be technically strong. If the professional investors are not invested means marke is technically weak, at the time, the seller can offer proportionate of the lot to the buyer Line charts & Bar charts !-

charts are the valuable and easiest tools in the technical analysis. The graphic representation of data helps the investor to find out the trend of price without any difficulty. The charts give regular price movements over a period of time, establishes a trend line that may be increased, ant i croad pd batariana decreased or stable.

Moving Averages:

The word moving averages means that the body of data moves ahead to include the recent observations. In market, investors consider the moving averages of index usually for 5 days 19 1981200 MARTIN Oscillators 17 porto.

Oscillators shows the share price movement across a specific given time to the another time period. These also consider the frend projections of market and signals trend reversal to the investors. lets, cotisch the lot Other technical tools: - [ on ad providence hologal 1. ROC (Rate of Charge) 3. Candles 2. RSI (Relative Strength 4. Elliot wave Theory

Inder)

57 1. Rate of Change (ROC):nos ti asdo. Roc "is the indicator to measure the price variation of a given stock from current days price to the previous or any past price. ROC = Today price X 100 KIRE WOWEN REEL last day closing price This tool is applicable for currency markets, equity markets and derivative markets The main advantage of this tool is the identification of heavy purchases or heavy sales of a given asset can be identified in the market. 2. Relative Strength Index (RSI):-It was developed by wells wielder, it helps to identify the inherent technical Strength or weakness of a particular stock or the Ender value, It Can be calculated by asterage average price gain per day average price loss por day sharpet. Usually RSI calculated for 5 days, 7 days, 9 days & 14 days, which disclose the present conditions of the market, by considering au the factors limpacts the market. market motor sized dout yours findt doots not go assing In desivative trading, the tool andle is 3. Candles :most popular and widest for estimating the value of a given commodity over a period of time. storts them was shown but mast trons

When it comes to derivatives trading. The minor price movement of a given stock resulted in major price variation of derivative contract based on the large size: 4. Elliot wave Theory:

It was proposed by elliot by Explaining that the up's and downs of share prices moves within a given range only. As per this theory, the sharpest height of share prices definitely resulted by touching "its lowest points in sooner short span of time. the adviced the investors, do not invest in market at peak level or lowest level of the market value. The levels may be reversed within the given fime period. Sifference between iechnical & fundamentar Analysis () fundamental analyst analyse the stocks based on the specific goals of the investor. They torecas focus on the factors like financial strength of corporate, growth rate of sales, earning levels of the firm and profitability where as technical analyst mounty focus on historical Prices of the stock, they study two basic factors in market, They are: price of the stock and supply (or) Notume of the stock.

(2) Jundamental analyst estimate the intrinsic value of the shares and make investment decisions. Technical analyst mainly speculate the price movements in Short term and decide investment strategies. 3 Jundamental analyst prefers to buy and whole (3) Strategy for long term. Technical analyst prefers buy and sell strategy for short term.
(contd from page → (C) Unit II

EVA: (Economic Value Added) EVA is the most updated conception the area of accounting and finance. It highlighted the limitation of financial accounting such as opportunity cost of capital and depletion of natural resources or natural assets. EVA is the after tax cash flow calculation by a business, by deducting the Cost of Capital (opportunily (ost) which is utilized to generate the positive ash flows from the business. Au these deductions generate the real additional value to the corporate or to the firm during a specific period of time Eva is nothing but the additional value added to the company resources in the present year when Compares to the last balance sheet date EVA = Net profit - Operating cost of Capital (opportunity cost of Capital)

Différence between Capital Structure & Firancial Structure:

If you look at the balance sheet of a firm the entire left hand side which includes non current l'abilifies and current Babilifies together Called as financial structure of the firm. Whereas Capital Structure is the sum total of all long term source of capital which includes debentures, long term debt, preference share capital, equity share capital and retained earnings. Capital structure is the part of phantxogg financial structure of any given firm.

With is the after tex Cash flow coloulation by

surveys, by deducting the lost of apital (opproximily

ost) which is utilized to generate the positive cash

a from the business out these deductions

generate the real additional value to the conference

type is nothing but the cutilities of yolus added to

the company encounces in the procent your ashen

(opportunity cost of (spital)

EVA: Net profit - Operating cost of Copita

Compares to the last belance sheet dat

er to the from during a specific period of three

## PORTFOLIO ANALYSIS AND SELECTION

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Contents to be covered in this unit

Past-1 1. Diversification of funds 2. Sharp Endex model 3. Portfolio betageneration through efficient 4. markovitz risk return optimization frontier 5. Sharp Optimization model. 6. Portfolio revision AE redianto -> portfolio rebalancing Fit the same > portfolio upgrading -> investment timing -) "investment plans Tike constant dollar plan(SIP), constant vafio plan, 11/09/2018 Variable ratio plan various risk poremiliats depi Diversification of funds: The main Objective of diversification

is reducing the risk in capital as well as return from the investment. A diversified portfolio is comparatively less risky than holding a single portfolio The several ways to diversify the portfolio is as follows:

1. Debt & Equity diversification :-

Debt instruments provid assured returns with limited capital appreciation, where as common stock (shares variable income Securifies) provide fincome and capital gain with the flavour of uncertainity. An investor should instruments: compliment both these, and select

2. Industry diversification:-

reaction to government policies growth and their another. In India banking industry may provide regular returns with limited capital appreciation At the same time IT stocks provide higher returns Capital appreciation with potentially higher risk factors.

3. Company diversifications

Capitfies or securities carries Various risk potentials depending on many factors. Technical analysts suggest the investors to buy securities based on price movements. Fundamental analyst suggest that selection of stock must be based on the financial sound and potential sales growth of the companies.

randort.



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When the values are plotted on the gap some portfolio's stands at upper line where as the other portfolio's stands downside of the line. Portfolio 'B' is more attractive than F and the because 'it offers higher returnat the same level of risk like wise portfolio 'c' is more attractive than portfolio 'G' even both these offer same returns that is 10%, but the risk of c' is 's'. Comparatively much lesser than risk of G is 12%.

However the portfolio's which offer highest returns at a particular level of risk are called as deficient portfolio's by Using this technique an investor can evaluate thousands of portfolio's (or) Stocks with one snap short and select efficient portfolio's only.

probability of returns	Returns-A	Returns-B
0.05	-2	-3
0:20	9	6
0.50	la	u
0.20	15	114
0.02	26	q

Markovitz risk return optimization:-

Calculate the following !-

-> findout the expected return of each stock

-> portfollo return &f 50%. Invested in both stocks

-) if the investment A "is Asolo and B is 25%.

what is the portfolio return.

=) expected return of 'A':-

 $A = -2+9+12+15+26 = \frac{60}{5} = 12!$ 

B = -3 + 6 + 11 + 14 + 9 = 37

Markovitz adequate and conceptual in analyzing the risk and return of portfolio but the limitation of risk model is no of co-variances have to be calculated per all the stocks were selected to the portfolio by Covering all these limitations "sharpe" was introduced another model namely sharp optimization portfolio ) Sharp index model: ?It is also called as single index

model. The bassic assemption for this model is the individual stock crises tend to increase (or) decline the index values. Hence the stock prices are related to the market index, this relationship can be used to estimate the return on individual stock. The return on stock (on be calculated by using):

RI = Ki+Bi Rm + Ci

R: = expected return of the stock. R: = The alpha co-efficient (or) securities straight line. (66)

B: = slope of stralight line (or) B (o-efficient Rm = market return (or) finder return l' = error term

66

Stock prices are related to many of the factors, and reflected on market index, this relationship (an be estimated by using optimitation model.

Sharp Optimization portfolior Sharp had provided a model for Selection of any stock is directly relation to sharp index mode ercess returns to B ratio

> = Ri-Rf mailformand and anti-Islam Bathat Ri= seturn of the stock Re = visk free rate B = Systematic risk

Dtort igt in = +9

to retimize the

Problem-1

The following table has given details regarding the expected return, beta values & unsystematic risk of of variance of individual stocks. The return on treasury bills is 5° (. and market variance is to. Construct the optimal portfolio by calculating cut of points.

Security	expected return	B	Gei	Ri-Rf B
A	15	1.0	30	15-5 - A = 10
B	12	1.5	20	12-5 -B=4.6
c	11	2.0	40	11-5-C=3
D	8	0.8	10	2 8-5 - D - 3.75
e	9	1.0	20	0.8 9-5 . 6 . 11
F	14	1.5	10.	0.8 - 19

and the second se		21
Security	$\frac{R_i - R_f}{B}$	Re-RE)B
A	10	
F	6	$C = C_m^2 \Sigma_1 (R_1 - R_f)_B$
B	4.67	Gei2
E	ч	1+ cm2 5 B2
D	3.75	ei2
C	3	

2 U. Sult ちょういろう 2.53 3 Considered for estme 4. + J highest cut off 24.05 Sigue 541.5 Shing 5 E. H 4.321 91t-h J 1410 × 0.4141 1+10×0-155 20n.2 × 01 10×1.68 1+10×0,4816 10 x 3.645 218n .0 2132.0 0.03 0.255 0.3675 0.4175 I 82 CP 2 a AJ Y 190.0 20.02 512.9 28 63 0.03 1-2-9 X (R1-R4)B 2.945 2.205 2.645 2.406 0.33 0, 2120 89.1 1-32 M 3.1 15 - y- 7 16. 2 0.63 OI 5.0 6.818 29.45 50.66 4.625 6.Sri 0.240 0.6 5.0 2.0 (R9-R6)B 0.33 1.35 100 0.7 2.2 5.1 2185.0×01+1-L+10× 0.3675 249.945 × 01 10 × 2.205 20.020171 Re-Rf 10 × 0.33 2.45 t9.h 0 3 2 3. " J.M CB ? Security CA P A 4 0 CL

X= Zi ΣZi  $\overline{Z_{i}}^{2} = \frac{B_{i}}{\sigma_{i}^{2}} \left( \frac{R_{i} - R_{F}}{B_{i}} - C^{*} \right)$ Sus.  $Z_{A} = \frac{1}{30} (10 - 4.93) = 0.17$  $2F = \frac{1.5}{10}(.6 - 4.93) = 0.19$ 2  $X_{A} = \frac{0.14}{0.36} = 0.472 = 47.21$ Problem 1-2 Risk less rate - 5% martet variance - 10%  $\beta = \frac{R_i - R_f}{B}$ Return Securities 1.0 20  $\frac{19-5}{1} = 14$ 1.5 30  $\frac{23-5}{1.5} = 12$ 19 A 23 B  $\Pi = \frac{1-5}{0.5} = 12$ C 2.0 40  $\frac{25-5}{2.0} = 10$ 1.0 20  $\frac{30-5}{1.0} = 8$ 25 D 130  $f_{0} = \frac{9}{14} = \frac{0.5}{1.5} = \frac{30}{9.5} = \frac{14-5}{9.5} = \frac{15}{9.5}$ 

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P8.4 5. tS 5 5 INVEST Considered for highest cut off +10×0.38 10 23.79 8:28 > 1 9.8.4 8,24 11.t 50.3 99.2 9 it CG 2 JA 0.305 0.38 8.24 0.3 0.125 51.0 52.0 65 50.0 3.5 - 8.28 ZI BL 33.4 0-1 0.05 560.0 0.005 St0.0 1.0 0.025 33 50.0 20 60 1+10×0,305 101 3.34 10 23.3 - ST.0749171 Z1 (R1-R4)B 3.79 3.34 (j) 9.1 3:3 2.9 E.O 6.1 C b 3 100 : 00 (R:-R)B 40.0 3.6 54.0 4.0 es. 99.h= 206 0.3 t.0 6.0 2. 5 R-64 à 511-020171 æ 1+10,0,00 1+10×0+12 0 10×0.9 5 6.7201 11:01 Security CA .= CB 73 4 0 0 1 CL

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$$X = \frac{Z_{1}}{Z_{1}Z_{1}}$$

$$Z_{1} = \frac{B_{1}}{C_{e1}^{2}} \left( \frac{R_{1} - R_{P}}{B_{1}} - \frac{x}{C} \right)$$

$$Z_{A} = \frac{10}{20} \left( 14 - 8 \cdot 28 \right) = 0 \cdot 286$$

$$Z_{B} = \frac{116}{30} \left( 12 - 8 \cdot 28 \right) = 0 \cdot 186$$

$$Z_{C} = \frac{0.8}{10} \left( 12 - 8 \cdot 28 \right) = 0 \cdot 186$$

$$Z_{D} = \frac{2.0}{10} \left( 10 - 8 \cdot 28 \right) = 0 \cdot 186$$

$$Z_{D} = \frac{2.0}{10} \left( 10 - 8 \cdot 28 \right) = 0 \cdot 0.66$$

$$X_{A} = \frac{0 \cdot 286}{0 \cdot 7444} = 0 \cdot 2.5 = 25\%$$

$$X_{C} = \frac{0 \cdot 186}{0 \cdot 7444} = 0 \cdot 2.5 = 25\%$$

$$X_{D} = \frac{0 \cdot 0.86}{0 \cdot 7444} = 0 \cdot 2.5 = 25\%$$

$$X_{D} = \frac{0 \cdot 0.86}{0 \cdot 7444} = 0 \cdot 2.5 = 25\%$$

Portfolio Revision:

Once the portfolio is designed or constructed, continuous monitoring should be there by the investors. Some of the portfolios may perform beyond the expectation, where as others may not be upto the mark. Portfolio revision must be made Once the evaluation process is completed. Portfolio

evaluation consists of analysing the risk and return (73) factors with anticipated values and real values. The investor can continue in those portfolios which provided expected returns, but it should alter and modify those postfolios which are not performed well: Frederices Techniques (or) alternatives of portfolio revision: 1. Active management of funds to to the mail of the 2- Passerve management of funds.

Passive management is a process of holding a well diversified portfolio for a long term with buy and hold approach. It means the investor make an attempt to Construct a portfolio that resembles or reflects the Overall market returns. The simplest form of passive management is holding the index (or) index fund that is designed with the common stock such as BSE SENSEX

(or) NOSE NOIFTY OF

Active Management: Active management is holding Securifies based on the forecast about the future. The Portfolio managers who proceed with this strategy focus to the market components usually called as market timers. stocks which seems to be good take Pinto their consideration, to their own analysis and construct portfolios based on Active management includes various formula plans namely their obligations. 1. Rupee cost average ( \$ cost average) 2. Constant rupee plan 3. Constant ratio plan 4. Variable ratio plan

The amount to be spent by the investor can (74 be decided by considering market factors, availability Of funds and Obligations of the investors -12%, Riskfreerate - 9% martet variance - 12%, Problem: 3 A portfolio manager has got the following information about various securities. He has to build an optimum portfolio which provides highly returns Semvities expected B Fei -Ri-Rf 100 100 pud ables aret proje 23510++22-7  $\frac{1}{2\cdot 5} = \frac{20}{2\cdot 5} = \frac$ 24 0 stor 20 23/days23 3 viera to mly designer site 25 14-7 = 4.66 y bruke ver (8 vo) veballion (08+0) stade such as Ris Senses Priblan >  $\frac{18-7}{1} = 11 - 3$ 20 16-7 = 11.25-2 6 10 12-7 = 4.16-0 12 1.2 7 prilled at 19 mapping L. 6 30 (7-7) 25 19-7 = 7.5-10 Seanstitles forced on the doiseast about the future 8 partiello managers who proceed with this strategy tocus to the market comparients usually called as market filmer, stads with the seens to be good take hote their ansideration. de their even analysis and construct particillas based on variagement includes various formula plans rame them obligations

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6.52 ) cut of 75 1Ers 5:33 5:33 2.8815 F2 3 2 32455 = S. S. S. Press. 0 P. 42869 6.83830 PANA 1+12×0,9439 0.3821 1+12×026369 Sshr.hxg1 6461.0 0.06 2140.0 210.0 50 X 82 5210.0 h201.0 0.026 0,208 441.0 60.09 0.031 0.018 3 34 sshn.h 3.8455 3.4255 Z1 (81-RF)B 2.7655 200 2619.0 1.6855 th.0 84.0 F.S 5.93 6.52 1+12×0.3829 1+12×0.4489 0.1375 12×9,7655 = 24.0 12+3.4255 896.0 99.0 6e1 0.42 0:36 (R1-R4)B 80.1 9.0 AUF1.0x51+1 C7 = 12×1.6855 4.16 99.h C 8 3 R-R 2.5 5 11.25 sit 5 5 c 2 3 10 25 30 30 28 8 20 SS 50 2. 5-3.0 1.6 2.5 5.88 0-1 8.0 0. a hm.S 84.8 expected 2 1+12×0,078 20 t 22 5416.0+21 1+12+0-06 = 12×0.98 1+11+0.028 C1 - 12×0.42 9 Securities 8 2 5 C ch i

X = Zi Zi Zi  $Z_{i}^{*} = \frac{B_{i}^{*}}{\sigma_{i}^{*}} \left( \frac{R_{i} - R_{F}}{B_{i}^{*}} - c^{*} \right)$  $Z_1 = \frac{1.0}{35} (15 - 6.52) = 0.243$ Zz = 0.8 (11.25-6.52) = 0.1892  $Z_{3} = \frac{10}{80} (11 - 6.52) = 0.0562$  $Z_{\mp} = \frac{1.6}{25} (7.5 - 6.52) = 0.06272$ 0.24 = 0.4389 = 93.9% X5 = 0.1892 = 0.345 = 34.5%  $x_4 = \frac{0.056}{0.5472} = 0.102 = 10.2.1$  $x_{7} = 0.062 = 0.013 = 11.3%$ awa rade 0.5472 24/9/18 1. Rupee Cost average: . Under this plan, an investor purchase various securifies at various market levels, irrespective of market movements by Securities regularly, finally the average cost of purchase definitely minimizes the value of each

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share. The stocks must be selected based on its (7) fundamental factors, and applicable buy and hold strategy: 2. (onstant Rupee plan (SIP):-

Under this plan, an investor, make investment plan with fixed amount in continuous interval time periods, i.e., investor continuous interval time periods, i.e., investor make investment with fixed amount, every month make investment with fixed amount, every month intervest same amount of money in portfolios. In fis plan also enable that altering the investable funds from fixed income securities to variable income securities.

3. Constant Ratio Plan: This plan attempt to maintain a Constant ratio of investment between aggressive stocks or aggressive portfolio and conservative or stocks or aggressive portfolio and conservative or defensive portfolio. Aggressive portfolio

4 Variable ratio plans According to this plan at Narious levels of market price, the proportions of Stocks and bonds change, whenever the prices of Stocks fincreases, sell those stocks and convert the Stocks fincreases, sell those stocks and convert the Stocks for this, the finvest fin other securities or Same amount to finvest fin other securities or Sounds for this, the finvestor is required to bonds for this, the finvestor is required to estimate a long term trend in prices of the stocks. 26/09/18

## Unit-D

## MUTUAL FUNDS

Contents: Definition of MP Probability 1944159 Objectives Organization and management of MR Types of MP pros and Cons of MF Performance evaluation and measurement of Soots Stock an arutar chatters adt is today -> sharpe model ) Jensen model Treynor's models - 1200 (20-St-P) (2-St-D) 73-04 (364 Definition of Mutual funds:-Mutual fund is an investment vehicle that pools together funds from investors to purchase stocks, bonds or other securifies. An investor Can participate in mutual funds by investing funds and purchasing of units, -120-10100000 27/09/18 lypes of Mutual tunds:-

Mutual funds are Categorized as

follows :-

De & = 251-74.1-

26 1-281-

81 Types based on structure (nature of trading) 1. Open ended funds 2. closed ended funds Types based on asset class 1. Equity funds 2. Debt funds. 3. Money market funds 4. Balanced/ hybrid funds shuff law opili Types based on growth aspects 2 print hood prints 1 1. Growth funds thread for the s 2. Income funds 3. Liquid funds 4. Tax saving funds/schemes (ELSS-Equity linked - Stals 5 Capital protection fund 6. Fixed maturity funds 7. Pension funds and nimite risk factors. Types based on speciality and hut not portions 1. Sector funds a strast Loutum to nottorozzo sil 2. Index funds when to phot protolups and 20 3. fund of funds the province of alland 4. Emerging market funds Hollows: 5. International funds mapping lonoisator 6. Real estate funds inge 7. Commodity focussed stock funde

8. Leveraged funds inpes based on structure (not 9. Asset allocation funds 10. Gilt funds should happen hadde . 11. Exchange Traded Funds (ETF) Types based on risk. 1. dower risk funds 2. Medium risk funde sharp togram param 3. High risk funds should birdpa borados u

Types based on load, fees, commission, tax

1. Entry load funds

2. Sitload funds.

28/9/18 Objectives of mutual funds:

Investments in mutual fund provides better returns to the investors by minimising potential misk factors in market. Even though "investment "in mutual fund subject to market risk, professional management helps to face and minimise risk factors. 2 Jersion funds

Benefits of mutual funds :- (Advantages)

The association of mutual funds in India (AMFI) Serving as the regulatory body of mutual fund Endustry, the benefits or advantages specified by AMFI are as follows! de Emerding market funds

1. Professional management : 102- Inapitamental

Experienced fund managers supported by a research team, select appropriate securities for

2000 Atourn 1

Income tunds

83 investment. + levibility := · 2. Diversification: Mutual fund offers well-diversified funds into various mange of securities over many industries. 3. Potential Returns:-Medium and the long term funds provides higher returns than benchmark return or index return. B. Choice of Schemes: 4. dow cost of maintenance:-The only fees collected by promoters from the investors is either entry load or exit load. The funds handled by portfolio manager, to 5. diquidity :every buyer the promoter is the seller, at the time of selling the units by the "investor, the promoter all the promotors list with serso terms and conditions. becomes buyer Buy from sell to investor 2 2 3 1 sell to investor Promoter ), muter betages 1031 (AMC) Closed ended funds were listed in market, they trade like equity shares. Mutual fund provides information on each 6. Transparency " 2 3 A to mutor Scheme about the specific scheme based on the scheme · S. WI : Objectives.

## 7. Flexibility :-

An investor can enter to purchase unit. about balling at any point of time and also exit as per the requirements of investors (dock in period will be there for tax savings schemes where investor should wait till the expiry of the scheme) 8. Choice of Schemes: · deux cest of maintenance:-Mutual fund offers variety of schemes ball tirg to meet the needs of investors - plibing a 9. Well regulated: point and show of the funds are monitored by AMFI, all the promoters list with SEBI and follow the terms and conditions. Assignment problems Answers 1sour expected return RA = 12+18 (losed ended funds were listed in market, they RB = 14+12 plinps - vill boit 2 13.1. (i) expected portfolio return of A&B Scheme about the specific (EXXV.0)+ (0:x8.0)=

= 14.2%

Offectives.

Surger and and a

(ii) 
$$SD \text{ of } A = \sqrt{\frac{5!(R-E)^2}{N}}$$
  
 $= \sqrt{(\frac{12}{2}-\frac{5}{4}(\frac{12}{6}-\frac{5}{2})^2}$   
 $= \sqrt{(\frac{-33}{2}+(\frac{5}{6})^2}$   
 $= \sqrt{(\frac{-33}{2}+(\frac{5}{6})^2}$   
 $= \sqrt{(\frac{-3}{2})^2+(\frac{5}{2})^2}$   
 $= \sqrt{(\frac{12}{2}-\frac{5}{4}(\frac{12}{2}-\frac{15}{2})^2}$   
 $= \sqrt{(\frac{12}{2}-\frac{5}{4}(\frac{12}{2}-\frac{15}{2})^2}$   
 $= \sqrt{(\frac{12}{2}-\frac{5}{4}(\frac{12}{2}-\frac{15}{2})^2}$   
 $= \frac{(12-15)(12-15)}{N}$   
 $= \frac{(12-15)(12-15) + (18-15)(12-15)}{2}$   
 $= \frac{-3}{2} = -\frac{6}{2} = -3$   
 $T_{12} = (0variance of 1622)$   
 $= -\frac{3}{3\times 1} = -1$   
(10) portfolio risk s-  
 $P > \sqrt{X_1^2 - r_1^2 + X_2^2 - \frac{5^2}{2} + 2X_1X_2(\frac{5}{12},\frac{15}{2})}$   
 $= \sqrt{(0.6)^3 + 4(0.41)^3 + 1 + 2(0.6)(0.41)(-1 + 3 \times 1))}$   
 $= \sqrt{(3.24+0.16+(-1.44))}$ 

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Portfolio risk  

$$P = \sqrt{(0.5)^{2} \times 9 + (0.5)^{2} \times 36 + 275.5 \times 0.5(-183 \times 6)}$$
  
 $= \sqrt{0.25 \times 9 + 9.-9}$   
 $= \sqrt{2.25 \times 9 + 9.-9}$   
 $= \sqrt{2.25 \times 9}$   
 $= 1.5$   
 $3 \text{ soli}$   
(1) expected vietum of  $A = 0.25 \times 10 + 0.50 \times 10 + 0.55 \times 10$   
 $= 2.55 + 944$   
 $= 2.55 + 9444$   
 $= 2.55 + 9444$   
 $= 2.55 + 9444$   
 $= 2.55 + 9444$   
 $= 2.55 + 9444$   
 $= 2.55 + 9444$   
 $= 2.55 + 9444$   
 $= 2.55 + 9444$   
 $= 2.55 + 9444$   
 $= 2.55 + 9444$   
 $= 2.55 + 9455$   
 $= 3.54 + 643.5$   
 $= 12$   
SD of stocks  $\cdot$  SD  $\cdot \sqrt{51P[x - e(x]]^{2}}$   
 $= 3.54 + 643.5$   
 $= 12$   
SD of stocks  $\cdot$  SD  $\cdot \sqrt{51P[x - e(x]]^{2}}$   
 $= \sqrt{2.0625 + 0.125 + 1.55625}$   
 $= \sqrt{2.0625 + 0.03125 + 0.55(16 - 13.25)^{2}} + 0.55(16 - 13.25)^{2}}$   
SD of  $B \cdot \sqrt{0.25((0 - 13.25)^{2} + 0.5((14 - 13.25)^{2} + 0.55(16 - 13.25)^{2}}$   
 $= \sqrt{10.1835}$   
 $= \sqrt{10.1835}$   
 $= 3.19$ 

SD of 
$$C = \sqrt{0.25(10-12)^{2}+0.5(12-12.5)^{2}+0.25(10-12)^{2}}$$
  
=  $\sqrt{1+0+1}$   
=  $\sqrt{2}$   
=  $1.4144$   
(Ovariance of  $x_{123} = \frac{5}{21}(R_1-R_1)(R_2-R_2)(R_3-R_3)$   
N  
=  $(10-13\cdot5)(9-13\cdot25)(14-12) + (14-13\cdot5)(12-13\cdot25)(12-10) + (16-13\cdot5)(12-13\cdot25)(12-10) + (16-13\cdot25)(12-10) + (16-13\cdot25)(10-12)$   
=  $(-3\cdot5)(14-13\cdot25)(10-12)$   
=  $(-3\cdot5)(14-13\cdot25)(10-12)$   
=  $(-3\cdot5)(14-13\cdot25)(10-12)$   
=  $29.95+10-23\cdot95$   
=  $4.5\times10^{2}$   
=  $4.5$ 

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1/ 10/18 Cons of Mutual-funds (dimitations) ! 1. Mutual funds are Subject to market risk 2. The returns are not guaranteed. 3. Diversification of Portfolio doesn't "impact (maximized or mirlimised) returns. 4. Selecting right financial securities is not easy. 5. Cost management not too proportionate to the performance of mutual funds. Unethical practises may existed. Hidden cost associated with funds and schemes. 6. 8. Most of the time performance of the funds depends on the abilities of the fund manager.

3/10/18 Organization and management of Mutual Funds. Smooth functioning of mutual funds, AMFI (Association Of mF in India) was established by SEBI, all the AMC'S becomes members in AMFI. The guidelines have been issued by SEBI and AMFI by Keeping that protection of interest of the investors. The Offer document (NFD-New fund Offer) should provide essential information to assist the investors to take (orrect decisions. The document provide following "information:

1. Standard and Scheme Specific Fisk factors. 2. Due deligence by the AMC 3. Details of the Offer, pricing of units and the minimum application price for Subscription. 4. Identification of AMC and background of maximized or fund managers 5. The postfolio turnover policy and its effect fund managers On investment : should inviter to 6. The policy with respect to dividends and its Chethical pr 7. The information regarding inter scheme transfers out of assets, accounting policies and empact on NAY. 9. The manner of determination about redemption of units. shout louture to proje 10. Tax treatment of govertments in mutual funds. "I mil al and and some some in a mand in MA and god I and has raise up how is most and the protection of interest of the investors The offer document ( MPO- New Find Offer) should provide esential "information to againt the "investors to E dectérons. The clocument provide

## Performance Evaluation of Mutual funds

- 1. Sharpe Index model
- 2- Treynor's Index model

3. Jensen's Index model.

Returns from mutual funds are subject to the returns of market, but "it doesn't mean that, "if market provide returns, then only mutual fund also provide return and vice versa.

AFILITU TO BE H

1. Sharpe performance Index:-

When the monket It measures the risk premium of the postfolio in relation to the total amount of risk in the portfolio. The risk premium is the difference between portfolios and rate of return and the risk less rate of return. The SD of the portfolio indicates risk to the portfolio. The finder assign the highest values to the assets, that have best risk adjusted average rate of three tund

return.

the absolute 918x adjusted Rp = portfolio return Re nisk free return ow moon mut FP portfolio risk. " alotting to anomalize The larger the St value indicates the better performance of the fund. Sharpe Index can be

St = Rp-Rf "inter portoning singuilles

Used to rank the desirability of funds or portfolions \* It do not utilize to assess or evaluate the risk factors of individual assets.

2. Treynor's performance Index :-

It reveals the relationship between a given market return and the funds return with help of a characteristic line. The funds performance is measured in relation to the market performance.

The ideal funds return vises at a faster rate than the general market performance, when the market is moving upward. At the same time its rate of return declines slowly than the market return in declining market:  $T_n = \frac{R_p - R_f}{B_p}$  Bp = Systematic risk of the portfolio:

The highest value indicates, best performance of the fund.

3. Jensen's performance Inder:-

The absolute risk adjusted return measure was developed by Jensen, the performance of portfolio or mutual & funds depend on many factors. The return of the portfolio Varies in the same proportion of B to the

Ro-RE

difference between market return and the sisk less (3) rate of return.

where,  $\alpha =$  interseption of the portfolio. The following information is provided regarding the performance of mutual funds namely A, B, C

fund	Rp	GP	BP			
A	25.38	ч	0.23			
B	28.11	9.01	0.56			
c	25.01	3.55	0.59			
The risk free rate of interest is 9%, rank the						
based	on Sha	ope me				

model.

So

11-	Gunds	sharpeindex	Treynor's index
	funds	4.095 - 1	71.217 - I
	5	1.788 -11	28.767 -1
	ß	G. 843	27.135 - 1.
	C	4.501-2	