Lecture 8: Equity Portfolio Management Strategies

	Today's Questions
	huhat are hun generic equity portfolio management styles?
	what techniques can be wed to construct passive ordex portfolios?
	What is a portfolio's tracking error?
	e what are the 3 types of portfolio adjustment that active
	portfolio managers we?
	e what are value-oriented & growth oriented musiment styles?
	Minat are strategic & tactical approaches to asset allocation?
_	Passive Vs Active Management
0	Total Portfolio Return
	. The total actual return on any equity portpolio can be decomposed
	orbo: - Expected return
	- Alpha
	o The Equation
	Total Achial = [Expected Rehin] + "[Alpha']
	Kehirn
	= [Risk-Free Rale + Risk Premium]+ ["Alpha"]
0	Passive equity portpolio management
	- Long-term buy-2-hold strategy
	- wurlly tracks an order over time
	- Designed to mach market performance
	- Managers are judged on how well they track the target index
0	Active equity portpolio management
	- Attempts to outperform a passive benchmark portfolio
	-on a risk-adjusted basis by seeking a possitive malphan value

	An Overview of Passive Strategies
	Attempt to replicate the performance of an index.
	-my slightly underperform the target index due to tees &
	commissions
0	Strong rationale for this approach
	- Costs of achie management (4 to 2 percent)
	- are hard to evercome on risk-adjusted performance.
0	Many different market indexes are used for tracking partfolios
	- 52 P 500 Index
	- MASDAQ Composite Index
	Index Portfolio Construction Techniques: Fill Replication
6	Full Replication
	- All securities in the index are purchased in proportion to
	weights in the index.
	- This helps ensure close tracking
	- increases transaction costs, particularly with dividend
	reinverment
	Sampling
	- Buys a representative sample of stocks in me benchmark index
	according to their weights in the order.
	- Femor stocks means lower commissions
	- Reinverment of dividends is less difficult.
	- will not track the index as closely, so there will be some
	tracking error
0	Quadratic Programming
	- Historical Information on price changes & correlations
	- behueen securities are input into a computer program
	-that determines the composition of a partiolio
	- that will minimize tracking error more with the benchmark
	This relies on historical correlations, which may change over
	1000
	- leading to failure to track the index

	Tracking Brow & Index Portpolio Construction
	The goal of the passive manager should be to minimize man
	- The portpolio's return volatility relative to the index,
	E.e., to minimize tracking error
0	Tracking Error Measure
	· Return differential on time period to
	$\Delta t = Rpt - Rbt$
	Where;
	- RPE = return to the managed portfolio in Penrod t
	- Rbt = rehim to the benchmark portfulio in Period t
A S	The read to the peneminare portion in tenda t
	· Tracking Error (TE)
	- 23 the standard deviation of Dt, normally annualized
	TE = OD P
	Whore;
	- P & the number of roburn periods in a year.
	An Alternative de minon wei
	- the Root Mean Square (RMS): \(\sum \frac{1}{2} (1+)^2
	The test start square (NTO) = \ Z T (St)=
	Management Styles by Tracking Error
	Style Tracking Emor
	Passive <1% (normally <0.5%)
	Smichired 1% - 3%
	-Active management with control on TE 74% (normally 5-15%)
	Achve
	Methods of Index Portfolio Investing
	Index Muhial Funds
	-Investors buy shares in investment company, which invests the
	money raised on an index portfulio
	- The fund is not traded in an exchange
	- In an indexed portfolio, the pund manager will hypically attempt
	to replicate me composition of the particular index exactly.
	- The fund manager will buy the exact securities comprising the index on their exact weights.
	the state weights.

	Methods of Index Portfolio Investing
	Index Muhial Funds
	- Change those positions anytime the composition of the index
	- Low trading & management expense ratios
	- an Chexpensive way por Investors to acquire a diversified
	o Disadvantages:
	-no intraday trading;
	- potential tax repercussions when fund sells holdings
	- A famous modex fund is the languard's 500 Index Fund
	which mimics the S&P 500 index
0	Exchange-Traded Funds (ETFs)
	-ETFs are depository receipts that give investors a
	pro rate claim
	· on the capital gains & cash flows of the securities
	mat are held on deposit by a financial mobiletion
	o that issued the corrificates
	- A significant advantage of ETFs over index mutual junds
	a mat they can be bought & sold (& short sold) like
	eommon stock
	The state of the s
	- Some notable examples of ETFs
	. Standard & Poor's 500 Depository Receipts (SPDRs)
	· Eshares - indexed positions in many global aquity markets. Sector ETFs.
	Section Offs.

An Overview of Active Strategies	
· Goal is to earn a portfolio return that exceeds.	
- the return of a passive benchmark portfolio,	
- net of transaction costs,	
-on a risk-adjusted hasis	
- Need to select an appropriate benchmark	
· Practical difficulties of active managers:	
- Transactions costs must be offset by superior performa	nce
vis-a-vis the benchmark	
- Higher risk-taking can also increase needed performan	ce
to beat the benchmark	
Equity Portpolio Investment Philosophies & Strategies	
Passive Management Strategies	
1. Efficient Markets Hypothesis	
- Buy and hold	
- Indexing	
· Active Management Strategies	
2. Fundamental Analysis	
- "Top down" leg, asset class notation, sector rotation)	
- "Bottom up" (e.g., stock under valuation / over valuation)
3. Technical Analysis	
- Contrarian (erg., overreaction)	
- Continuation Ce-g., price momentum)	
4. Anomalies & Attributes	
- Calender effects (e.g., weekend, January)	
- Impormation effects (e.g., neglect)	
- Security characteristics long. PIE, PIB, earnings	
momenhim, firm size)	
- Investment style Gogo value, growth)	

	Fundamental Strategies
	Top-Down Vs Bottom-Up Approaches
	o TOP - Down
	-Broad country & asset class allocations
	- Sector allocation decisions
	- Individual securities solution
Thursday	Bothom-Up
	- Emphasizes the selection of securities without any initial
	market or sector analysis
	- Form a portfolio of equifies that can be purchased
	at a substantial discount to what his or her
	· valuation model indicates they are morth
	= 0 = T
	Three Generic Themas Ctypes of Adjustment):
	Time the equity marret by shifting finds
	- on to & out of stocks, honds, and T-hills
	-depending on broad market forecasts
	others is known as tactical asset allocation
	shift junds among different equity sectors & industries
	- 6.g., financial stocks, technology stocks) or
	-among investment styles (e.g. value, growth large capitalization
	small capitalization)
	. This as known as sector ratation
	Do Stock picking and look an individual
	- Issues in an attempt to find undervalued stocks
	The state of the s
	Particular to the second secon

Fundamental strategies

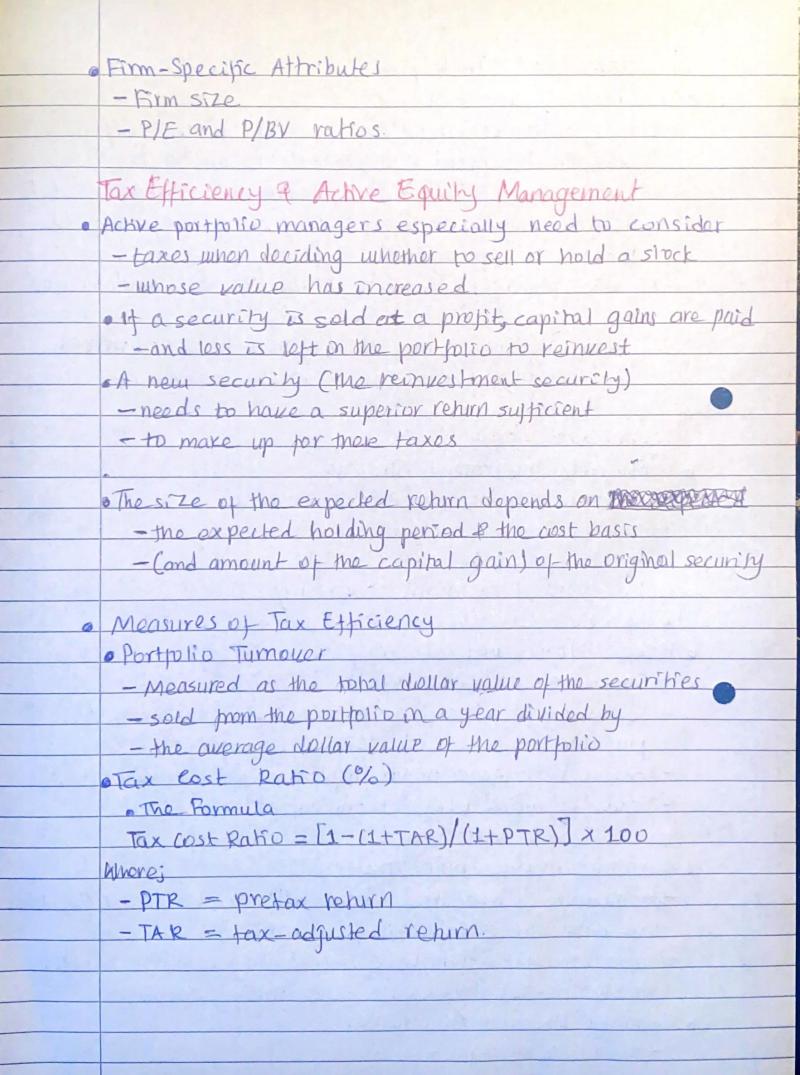
- · The 130/30 Strategy
 - Long positions up to 130 percent of the portfolio's original capital & short positions up to 30%
 - The use of the short positions creates the leverage needed, increasing both mike & expected returns compared to the pund's benchmark
 - Enable managers to make full we of their pundamental research
 - . to buy shocks they identify as undervalued normaled
 - as well as short those that are overvalued

Technical Strategies

- · Contrarian Investment Strategy
 - The belief that the best time to buy (sell) a stock
 - -is when the majority of other investors
 - are the most bearish (bullish) about it
 - . The concept of mean reverting
 - . The overreaction hypothesis
- · Price Momentum strategy
 - opposite to contravian
 - Focus on the trend of past prices alon & market purchase and sale decisions accordingly
 - Assume that recent hands on past prices with continue
 - Tends to work better on the short run

Anomalies & Attributes

- · Earnings Momentum Strategy
 - -Momentum is measured by the difference of actual EPS to the expected EPS (earnings surprises).
- Purchases stocks that have accelerating earnings & sells Cor short sells stocks with disappointing earnings
- · Calender-Related Anomalies
 - The weekend Effect
 - The January Effect



	Value Vs Growth
0	A growth onvestor
	- focuses on the current & puture economic "story" of a
	company,
	- with less regard to share valuation
0	A value Divestor
12.11	- pocuses on share price in anticipation of a market correction
-	-and, possibly, emproying company fundamentals.
	Value Stocks
	- generally have offered somewhat higher returns than
	growth stocks,
	-but this does not occur with much consistency
	- from one investment period to another
	Topical bahirai al amuth ababee
	Typical teatures of growth stocks: -High EPS growth - High PIE & P/BV ratios
	- High propitability
	* Sectors: technology health, services
0	Typical teatures of value stocks;
1000	- underpriced according to various measures
	- Low PIE and PIBY ratios
	- High xield
	- secrors: regulated industries; cyclical industries

	Asset Allocation Strategies
0	Integrated asset allocation:
	Separately examine the following two factors:
	- Capital market conditions
	- Investoris objectives and constraints
0	Strategic Vs tactical asset allocation:
	a strategic:
	- Determines long-run policy weights leg returns, risk & cov)
	- Constant mix Cfixed over sime)
	oTachical:
	- Frequently adjusts asset weights to reflect market conditions
	- Often based on mean reversion
	This is inherently contrarian
	Insured asset allocation
	-Adjusts asset weights to reflect changes on arrestor's needs
	-Often increases weight on nikier assets as wenth grows
	Selectings on Active Allocation Method.
•	- Perceptions of variability in the client's objectives and
	constraints
	- Perceived relationship behaven the past & putine
	capital market conditions
	- The onvestor's needs & capital market conditions
	can be considered constant or variable.
	can be considered considered
	The same of the Standard Standard Course -