

GANPAT UNIVERSITY									
FACULTY OF MANAGEMENT STUDIES									
Programme	MBA				Branch/Spec.	Innovation, Entrepreneurship and Venture Development (Minor Specialization - Fintech, Investment Banking and Artificial Intelligence)			
Semester	IV				Version	2.0.0.0			
Effective from Academic Year			2026-27		Effective for the Batch admitted in			January 2026	
Course Code	IVA04IBF		Course Name		Investment Banking and Financial Analytics				
Teaching Scheme					Examination Scheme (Marks)				
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	4	0	0		4	Theory	60	40	100
Hours	4	0	0		4	Practical			
Pre-requisites									
Course Outcomes									
On successful completion of the course, the students will be able to:									
CO1	Analyze the structure and functioning of investment banking, including capital markets, underwriting, mergers & acquisitions, and corporate finance activities, to make informed financial decisions.								
CO2	Apply financial analytics tools and techniques, including data visualization, predictive modeling, and quantitative methods, for evaluating investment opportunities and risk management.								
CO3	Evaluate financial statements, market trends, and economic indicators using advanced analytics to provide actionable insights for investment strategies.								
CO4	Integrate FinTech solutions, AI-driven analytics, and digital platforms in investment banking processes to enhance efficiency, compliance, and decision-making.								
CO5	Develop strategic investment recommendations and reports, incorporating ethical, regulatory, and risk considerations, to support corporate and individual clients.								
Theory Syllabus									
Unit	Content								Hrs.
1	Introduction to Investment Banking: Overview, roles, services, and structure, Case discussion: top investment banks. Capital Markets and Instruments: Primary vs secondary markets, Equity & debt instruments, Investment bank role in capital raising, IPO simulation. Underwriting and Issue Management: Underwriting process, pricing, risk, syndication, Regulatory framework. Mergers & Acquisitions: Types and rationale of M&A, Investment bank role in deals. Corporate Finance Advisory: Capital structure, LBOs, dividends, Corporate restructuring and spin-offs, Example: advisory reports. Risk and Regulatory Environment: Financial, market, operational risks, SEBI, RBI, international regulations, Ethical considerations and case studies. Applied Analysis and Decision Making: Financial statement evaluation, Ratio & valuation techniques, Scenario analysis and group exercise.								12
2	Introduction to Financial Analytics: Role of analytics in investment banking, Overview of data-driven decision making. Data Sources and Management: Financial data types: market, company, alternative data, Data cleaning, preprocessing, and management. Quantitative Techniques in Finance: Descriptive statistics, probability, correlation, regression. Time series basics for financial data. Practical examples using stock and bond data. Predictive Analytics and Modeling: Forecasting methods: linear regression, ARIMA, machine learning basics, Risk and return prediction, Hands-on exercise: predicting stock trends. Data Visualization and Reporting: Dashboard creation and visualization tools (Power BI, Tableau, Python libraries), Interpretation and presentation of analytics results. Investment Evaluation Using Analytics: Quantitative valuation: DCF, multiples, scenario analysis, Risk-adjusted return								12

	assessment, Case study: evaluating a real company using analytics. Risk Management Analytics: Portfolio risk metrics: VaR, beta, standard deviation, Stress testing and scenario simulation, Practical exercise: measuring portfolio risk. Integration & Applied Decision Making: Combining predictive models, visualization, and risk analysis for investment decisions, Mini-group activity: analytical investment recommendation.	
3	Introduction to Financial Statement Analysis: Purpose and importance in investment decision-making, Key financial statements: balance sheet, income statement, cash flow. Ratio and Trend Analysis: Liquidity, profitability, solvency, and efficiency ratios, Horizontal and vertical analysis, Hands-on examples with real company data. Market Trend Analysis: Understanding market indices, sector performance, and stock trends, Technical vs. fundamental analysis. Economic Indicators and Investment Decisions: Key macroeconomic indicators: GDP, inflation, interest rates, employment data, Linking economic data to financial markets, Practical activity: impact of economic changes on stock selection. Advanced Analytics in Financial Evaluation: Regression and correlation for market and company data, Predictive insights from historical trends. Investment Strategy Formulation: Integrating financial, market, and economic analysis, Portfolio selection and risk-adjusted returns, Mini-case exercise: formulating an investment recommendation. Reporting and Visualization: Presentation of findings using dashboards, charts, and reports, Tools: Excel, Power BI, Tableau, Activity: create a concise investment report.	12
4	Introduction to FinTech in Investment Banking: Overview of FinTech applications, Digital transformation in banking and finance. AI and Machine Learning in Finance: Basics of AI/ML for investment banking, Applications: predictive analytics, algorithmic trading, fraud detection. Digital Platforms and Tools: Trading platforms, robo-advisors, blockchain in banking, Cloud computing and API integrations, Case discussion: leading digital banking platforms. Data Analytics for Decision-Making: AI-driven financial analytics and dashboards, Decision support systems for portfolio management, Hands-on exercise: using dashboards for investment decisions. FinTech in Risk Management and Compliance: Automated compliance monitoring, AI in credit scoring and fraud detection, FinTech risk management solutions. Integration of Digital Solutions in Banking Processes: Streamlining operations using AI and FinTech tools, Examples: underwriting, advisory, transaction processing. Emerging Trends and Future Directions: Open banking, decentralized finance (DeFi), RegTech.	12
5	Introduction to Strategic Investment Recommendations: Purpose and scope of investment advisory, Client types: corporate vs individual. Investment Analysis and Strategy Formulation: Integrating financial, market, and economic data, Quantitative and qualitative evaluation. Risk Assessment and Management: Portfolio risk metrics: VaR, beta, standard deviation, Scenario and sensitivity analysis. Regulatory and Ethical Considerations: SEBI guidelines, RBI regulations, and international standards, Ethical investment practices. Reporting and Communication: Structuring investment reports, Visualization, dashboards, and client presentation. Strategic Decision-Making Frameworks: Decision trees, scenario planning, and portfolio optimization, Evaluating trade-offs and alternatives.	12
1	Practical, assignments and tutorials are based on above syllabus.	
Text Books		
1	Investment Banking: Valuation, LBOs, M&A, and IPOs by Joshua Rosenbaum and Joshua Pearl.	
Reference Books		
1	Valuation: Measuring and Managing the Value of Companies by McKinsey & Company Inc., Tim Koller, Marc Goedhart, and David Wessels. (A classic on valuation)	

2	The Little Book of Valuation: How to Value a Company, Pick a Stock, and Profit by Aswath Damodaran. (Accessible introduction to valuation)
3	Financial Modeling and Valuation: A Practical Guide to Investment Banking and Private Equity by Paul Pignataro. (Good conceptual guide)
4	Corporate Fraud Handbook: Prevention and Detection by Joseph T. Wells. (Excellent resource for fraud concepts)
5	The Smartest Guys in the Room: The Amazing Rise and Scandalous Fall of Enron by Bethany McLean and Peter Elkind. (A must-read case study on corporate fraud)
6	Principles of Corporate Finance by Richard Brealey, Stewart Myers, and Franklin Allen. (Standard textbook for finance fundamentals)
7	Liar's Poker by Michael Lewis. (Provides cultural context on Wall Street)
8	The FINTECH Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries by Susanne Chishti and Janos Barberis. (Connects finance with technology trends)
9	Financial Shenanigans: How to Detect Accounting Gimmicks & Fraud in Financial Reports by Howard Schilit. (Practical guide to identifying red flags)
10	Monkey Business: Swinging Through the Wall Street Jungle by John Rolfe and Peter Troob. (An inside look at the analyst experience)
11	Barbarians at the Gate: The Fall of RJR Nabisco by Bryan Burrough and John Helyar. (The definitive story of LBOs)
ICT/MOOCs Reference	
1	Coursera: Investment Management Specialization – University of Geneva
2	Udemy: Financial Modeling & Valuation Analyst (FMVA) – 365 Careers

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	P S O 1	P S O 2	P S O 3	P S O 4
CO1	3	3	2	–	–	2	2	2	2	2	3	3	2
CO2	3	3	2	–	–	–	2	3	2	3	3	3	–
CO3	3	3	2	–	–	2	2	2	2	2	3	3	2
CO4	3	3	2	2	–	2	3	3	3	3	3	3	2
CO5	3	3	3	2	3	3	3	2	3	3	3	3	3