

CHARTERED FINANCE & TECHNICAL ANALYSTS SYLLABUS



President of FBI-Africa [www.fbiresearchedu.org]

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Professional Certificate © **Syllabus Development (2017)**

A] THE UNIQUENESS OF THIS CERTIFICATE PROGRAMME

Ever since technological advancement established its presence in the financial-economic system, it has caused a tremendous progression and sophistication in the phenomenon of practice within the financial market, with an unsatisfiable demand and regulatory request by its consumers as well as its agents of delivery as a career and professional pathway.

The programme draws its dimension of design in the finance and investment market, taken a critical consideration of the fragility of the African economic settings and the applicability of such skills, to become meaningful to its adept and the entire market without compromising the standards and the ethical requirements of the global benchmark. This uniqueness as an approach to this program design, and the pedagogical framework, serves to guide graduates to know how to apply the acquired knowledge in the African environmental settings, immature in investment banking practices in the contemporary procedures as well as learn the ability to innovate [within], taken consideration of all estimated parameters.

B] QUALIFICATION REQUIREMENT

Since the programme certificate is a course affiliated to International Federation of Technical Analysts (IFTA), Maryland-USA. The requirement is as follows;

i. Professional Level

A potential candidate will be admitted, when you hold any qualified diploma certificate in any accredited and recognized College, and has been working not less than 3yrs in the Investment market, Banking or Insurance sector in a reputable organization.

ii. Matured Entrance Test

When a potential candidate is 25yrs and above, and have the desire to pursue such a career without the requisite certificate. The candidates will be made to go through an entrance assessment procedure, which requires the following

- An application letter on why you should be accepted to read the programme.
- An interview by a panel to assess your eligibility
- An examination on English and Mathematics test

When all this requirement is met, then candidates will be considered for admission into the professional program.

iii. **University Certificate**

When a candidate apply with a University certificate from a recognized institution in the field of Finance-Economics, Accounting, Finance, Insurance, Actuarial Science and other certificate within the Finance and Social Science discipline, such candidate will be admitted with exemptions on some of the modular study depending on the evaluation of the transcript submitted.

C] INDUSTRIAL CAREER OPPORTUNITIES

- Top-notch Financial Investment Analysts for Media Organizations
- Risk Analysts and Evaluation for Banks and Insurance Companies
- Investment Consultant
- Financial Securities Analysts and Broker
- Enterprise Capital Raising Consultant
- Credit Risk Analysts and Assets Evaluator
- Project Fundraising and performance evaluator
- Project Capital Appraisal and Audit Consultant

Foot Note*> The detailed structure of the curriculum and pedagogical framework for the delivery of the programme is an independent written document and approved as a working document.

FIRST SEMESTER

COURSE TITLES	CONTENTS	TECHING ACTIVITIES	CREDIT HOURS	REFERENCE
1. Market of Securities	i. History of Security market ii. Levels of Security market iii. Main financial instruments traded in this market iv. Professional Agents	[a] Lecturing [b] Class Discussion [c] Subjects Exercise	3hrs	<ul style="list-style-type: none"> • Subject Transcript • Lodewijk, P. (2014), the World First Stock Exchange. Columbia Business School. ISBN-13978-0231163781
2. Fundamental Analysis	i. Discussion of Fundamental Analysis ii. Economic Analysis iii. Industrial Analysis iv. Company Analysis	[a] Class Discussion [b] Inquiry-based learning [c] Demonstration	4hrs	<ul style="list-style-type: none"> • Gregory M., (2009), macroeconomics (7th eds) ISBN: 13978-1-14292-1887-0. Worth Publisher. New York. • Subject Transcript
3. Technical Analysis	i. History of Technical Analysis ii. Principles of Technical Analysis iii. Industry iv. Systematic Trading v. Charting terms and Indicators	[a] Lecturing [b] Demonstration [c] Experiential Learning	3hrs	<ul style="list-style-type: none"> • Schwager, D. J. (2016), Market Wizards. Published by John Wiley & Sons • Senzu, T. E. (2018a) Stock trading forecasting: is it mass psychology or subject to efficient market

				<p>hypothesis. IFTA, Journal, Vol.25, Issue 2.</p> <ul style="list-style-type: none"> • Subjects Transcript
4. Basics of Forex Trading	<ul style="list-style-type: none"> i. History of Currency Trading ii. On-the-Counter and Over-the-Counter Trading iii. Soft and Hard Currencies iv. Market Size and Liquidity v. Risk Aversion 	<ul style="list-style-type: none"> [a] Lecturing [b] Experiential Learning [c] Subject Exercise 	3hrs	<ul style="list-style-type: none"> • Subjects Transcript • Smith, R. C., Walter, I. & DeLong, G. (2012), Global Banking Oxford University Press, ISBN: 0195335937 • Mendelsolin, B.L. (2012), Trend forecasting with inter-market analysis. Published by John Wiley & Sons)
5. Basics of Stocks Trading	<ul style="list-style-type: none"> i. Stock forecast ii. Stock Broker iii. Hedger, Arbitrageur and Speculator iv. Efficient-market hypothesis 	<ul style="list-style-type: none"> [a] Lecturing [b] Experiential Learning [c] Subject Exercise 	3hrs	<ul style="list-style-type: none"> • Schwager, D. J. (2016) Market Wizards. Published by John Wiley & Sons • IFTA Journal 2020 Edition (ISSN:2409-0271]

<p>6. Commodity Trading</p>	<ul style="list-style-type: none"> i. Hard and Soft Commodity Trading ii. Commodity Price Index iii. Commodity Index Funds iv. Regulatory bodies and Policies v. Traded Commodity Classes vi. Electronic commodity trading and derivatives 			<ul style="list-style-type: none"> • Tom, J. (2016), Commodity market trading and investment: a practitioner guide to the markets. Global financial markets p.7. ISBN 978-1137432803 • IFTA Journal, 2020. Edition [ISSN:2409-0271] • Subject Transcript
<p>7. Bond Trading</p>	<ul style="list-style-type: none"> i. Bond Market ii. Bond Indices iii. History iv. Bond Market v. Bond Indices 	<p>[a] Lecturing</p> <p>[b] Inquiry-based Learning</p>	<p>3hrs</p>	<ul style="list-style-type: none"> • US-Fact Book-2018 SIFMA • Bondfunds.com • Thau, A. (2010), The Bond Book (3rd eds). Published by John Wiley & Sons • Subjects Transcripts

SECOND SEMESTER

COURSE TITLES	CONTENTS	TEACHING ACTIVITIES	CREDIT HOURS	REFERENCE
8. Automated Trading Platform	<ul style="list-style-type: none"> i. Automated Trading Software ii. Algorithm Trading Software iii. Automated Trading Strategies 	<ul style="list-style-type: none"> [a] Lecturing [b] Inquiry-based learning 	3hrs	<ul style="list-style-type: none"> • IFTA recommended platforms
9. Theory of Pipsology	<ul style="list-style-type: none"> i. Pips-development in Trading ii. Pips Mathematics of Trading 	<ul style="list-style-type: none"> [a] Lecturing [b] Demonstration 	3hrs	<ul style="list-style-type: none"> • Subject Transcripts
10. Option Trading	<ul style="list-style-type: none"> i. What is Option Trading ii. Bullish Strategies iii. Bearish Strategies iv. Non-directional Strategies 	<ul style="list-style-type: none"> [a] Lecturing [b] Class Discussion [c] Subject Exercise 	3hrs	<ul style="list-style-type: none"> • Natenberg, S. (2007), Option volatility trading strategies. Published by Wile & Sons. ISBN:978-1-592-80292-0
11. Fund Management Practices	<ul style="list-style-type: none"> i. Fund management Industry ii. Intellectual and non-physical asset management iii. Money market funds - Fixed Income Funds 	<ul style="list-style-type: none"> [a] Lecturing [b] Class Discussion [c] Subject Exercise 	3hrs	<ul style="list-style-type: none"> • Broby, D. (2010), A guide to Fund Management. ISBN: 13978-1906348182 • Subject Transcripts

	<ul style="list-style-type: none"> - Equity Funds - Balanced Funds - Index Funds - Specialty Funds - Funds-of-Funds 			
12. Candlestick Forecasting	<ul style="list-style-type: none"> i. Historical Background ii. Basics of Candlestick forecasting iii. Convergence iv. Candles with Volume v. Measured Moves 	<ul style="list-style-type: none"> [a] Lecturing [b] Class Discussion [c] Demonstration 	3hrs	<ul style="list-style-type: none"> • Steven N. (2001), Japanese Candlesticks charting technique (2nd eds). Published by New York Institute of Finance. ISBN: 0-7352-0181-1
13. Trading Psychology	<ul style="list-style-type: none"> i. Mindset ii. Knowledge base iii. Imagination iv. Emotional discipline 	<ul style="list-style-type: none"> [a] Lecturing [b] Demonstration [b] Subject Exercise 	3hrs	<ul style="list-style-type: none"> • Steenbarger, N. B. (2002), the Psychology of Trading: Tools and Techniques for minding the markets. ISBN: 13-978-0471267614 • Subject Transcript
14. General Investment Laws	<ul style="list-style-type: none"> i. Investor Definition ii. Customary International Law iii. Investment Agreement iv. ICSID Convention v. National Investment Law 	<ul style="list-style-type: none"> [a] Lecturing [b] Subject Exercise 	3hrs	<ul style="list-style-type: none"> • OECD(2008) International Investment Laws: Understanding concepts and tracking innovation • Subject Transcript

	vi. ECOWAS Investment Laws			
	vii. AU Investment Laws			

THIRD SEMESTER

COURSE TITLES	CONTENTS	TEACHING ACTIVITIES	CREDIT HOURS	REFERENCE
15. Administrative Management	i. Decision Making, Planning and Strategy ii. Managing Organizational Architecture iii. Human Resource Management iv. Managing Organizational conflict, politics, and negotiation v. Promoting Innovation, Product development, and Entrepreneurship	[a] Lecturing [b] Class Discussion [c] Subject Exercise	3hrs	<ul style="list-style-type: none"> • Gareth, R. J. & Jennifer, M. G. (2006), Contemporary Management (4th eds.) McGraw-Hill. ISBN:13-978-07-266082-5) • Senzu, T. E. (2018), Entreprenomics (2nd ed.) Lambert Academic Publisher. ISBN: 978-613-9-9-8876-1
16. Equity Financing	i. Equity Finance and Origin ii. Structural forms of Equity - Venture Capital - Angel Investors - Accelerator Investors - Private Investment	[a] Lecturing [b] Class Discussion [c] Subject Exercise	3hrs	<ul style="list-style-type: none"> • Coyle B. (2002), Equity Finance: Debt Equity Market. ISBN:13-978-0852974537 • Subject Transcript

	- Mezzanine Financing			
17. Principle of Hedge Trading	<ul style="list-style-type: none"> i. Hedging ii. Types of Hedging iii. Categories of Hedgeable risk iv. Hedging Equity and Futures 	<ul style="list-style-type: none"> [a] Lecturing [b] Class Discussion [c] Subject Exercise 	3hrs	<ul style="list-style-type: none"> • Olltheten, E. & Waspi, G. (2012), Financial Markets: A practicum. Great Rive Technologies. ISBN: 978-1-61549-777-5. Pp. 349-359 • Subject Transcript
18. Debt Financing	<ul style="list-style-type: none"> i. Debt Finance ii. Types of Debt Finance iii. Source of Debt Finance iv. Advantages and Disadvantages of Debt Financing 	<ul style="list-style-type: none"> [a] Lecturing [b] Class Discussion [c] Subject Exercise 	3hrs	<ul style="list-style-type: none"> • EIS (2007), Euromoney Encyclopedia of Debt Finance. Rhodes, T. (Ed). ISBN:13-978-1843742692 • Subject Transcript
19. Bankable Documentation and Investment appraisal for capital raising	<ul style="list-style-type: none"> i. Business future expenditure rationing and profiling ii. Corporate audit reporting iii. Investment appraisal reporting 	<ul style="list-style-type: none"> [a] Lecturing [b] Demonstration [c] Subject Exercise 	3hrs	<ul style="list-style-type: none"> • Subject Transcript

	iv. Evaluation and Assessment documentation			
20. Theory of Interest and Inflation rate	i. Interest rate ii. Influencing factors of Interest rate iii. Types of Interest rate iv. Inflation rate v. Causes of Inflation rate vi. Effect of Inflation rate	[a] Lecturing [b] Class Discussion [c] Subject Exercise	3hrs	<ul style="list-style-type: none"> • Sidney, H., Eugene,F. & Sylla, R. (1996), A history of Interest Rates. Rutgers University. ISBN: 918-0-8135-2288-3 • Abel, A. & Bernanke, B. (2005), Macroeconomics (5th eds) Pearson. Measurement of Inflation. Chp.2 pp.45-50. Money growth & Inflation. Chp.7, pp.266-269
21. Investment and Taxation	i. Effect of Taxation on Investment ii. Tax rate on investment Income iii. Taxation and Investment Decisions iv. Taxation of Investment and Savings in the World	[a] Lecturing [b] Class Discussion [c] Subject Exercise	3hrs	<ul style="list-style-type: none"> • Garden, R. H. (1986), Taxation of Investment and Savings in a World Economy. American Economic Review. Vol.76. No.5 pp.1086-1102 • Douglas, S. R. (2006), Tax Aware Investment Management. Published

				by Willey & Sons. ISBN: 9781576601808 <ul style="list-style-type: none"> • Subject Transcript
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FOURTH SEMESTER

COURSE TITLES	CONTENTS	TEACHING ACTIVITIES	CREDITS HOURS	REFERENCE
22. Capital Asset Pricing and Investment appraisal	i. CAPM model and formula ii. Asset valuation and pricing iii. Risk and Diversification iv. Investment Appraisal metrics	[a] Lecturing [b] Inquiry-based learning	3hrs	<ul style="list-style-type: none"> • Eugene, F. & Kenneth, R. (2004), "The Capital Asset Pricing Model: Theory and Evidence. Journal of Economic Perspective. 18(3) 25-46. • Subject Transcript
23. Capital Rationing & Investment Decisions	i. Discounting Techniques ii. Capital Rationing iii. Annuities and Perpetuities	[a] Lecturing [b] Class Discussion	3hrs	<ul style="list-style-type: none"> • Holmes, P. (1998), Investment Appraisal. ISBN: 1-86152-212-6 University of Durham. Thomson Business Press • Subject Transcript

<p>24. Credit Risk Analysis & Lending</p>	<p>i. 5C's of Credit assessment ii. Types of Credit Risk iii. Credit Risk Modeling</p>	<p>[a] Lecturing [b] Class Discussion</p>	<p>3hrs</p>	<ul style="list-style-type: none"> • Ganguin, B. & Bilardello, J. (2004), Fundamentals of Corporate credit analysis. McGraw Hill. ISBN: 13978-0071441636 • Senzu, T. E. (2019b), Theoretical perspective of dynamic credit risk analysis and lending model; effectiveness to enterprises of fragile economy. SSRN:ID-3324909
<p>25. Research Project (Dissertation)</p>	<p>i. Getting the research project started ii. Guide to key in-depth Issues iii. Guide to Empirical work</p>	<p>[a] Lecturing [b] Class Discussion</p>	<p>3hrs</p>	<ul style="list-style-type: none"> • Jankowicz, A.D. (1995), Business Research Projects (2nd eds). Thomson Business Press. ISBN: 1-86152-351-3 • Subject Transcript

DISSERTATION CONDITIONAL REQUIREMENT FOR SUBMISSION

A. INTRODUCTION

The *Chartered Finance & Technical Analysts* offers this type of dissertation as non-academic Master's degree. With the expectation of the project work to be practiced and applicable in nature. The inclusion of theoretical or conceptual framework is encouraged. Data analysis is expected to be mainly descriptive but where quantitative research paradigms are used, students are encouraged to use inferential techniques.

B. LENGTH OF THE DISSERTATION

Candidates are expected to write clearly and demonstrate proficiency in the English language. The dissertation should generally not exceed 100 pages (approximately 26,000 words) excluding preliminaries and appendices. Which the student is expected to search and select a topic that matches his/her professional interest but at the same time appeals to the supervisor(s).

C. DISSERTATION ASSESSMENT PROCEDURE

CHAPTERS	CONTENTS	ASSESSEMENT (%)
1	Introduction	10%
2	Literature Review	25%
3	Research Methods	15%
4	Results and Discussion	40%
5	Summary, Conclusion and Recommendation	10%

D. SUBMISSION APPRAISAL

The Student must produce written drafts to his/her supervisor(s) for examination and provide feed. First submission of Candidate to supervisor should be the chosen topic, clarifying the need for the study, background, key research questions, relevant theories and tentative sketch of research methods. Second submission will be a final version of the research project for academic assessment.

E. SUPERVISOR RESPONSIBILITIES

- Guide / Advise the students on topics selection to meet the student's career objectives
- Guide the students on technical aspects of the dissertation
- Provide guidance on source of literature that the students may consult
- Have regular supervisory meetings with students
- Guide and verify the corrections the students are expected to make after the examination of the dissertation

F. PHYSICAL FEATURES, FORMAT, AND STYLE SPECIFICATION

- Use A4 white paper (210 x 297mm, 80grams) bond paper for all the pages of dissertation
- All typing must be done with Microsoft word, a processor with front size 12, preferably "Times New Roman". Exceptions may be made for the use of other type faces and smaller front sizes but not below 10, where technical details are presented in graphic form.

- Double-space must be used throughout, but long tables may be single-spaced to reduce tables, if any, to avoid extending to new pages.
- Use 'indentation' to indicate the beginning of new paragraphs
- Leave 5.08cm (2-inch) left margin and 2.54cm (1-inch) top, bottom, and right margins on all pages to stay within binding and trimming requirements

G. PRELIMINARY REQUIREMENT

- Title Page
- Declaration
- Abstract
- Acknowledgement
- Dedication
- Table of Contents
- List of Tables / Figures / Acronyms

H. COMPLETION MATERIALS

- References
- Appendices

APPENDIX
STRUCTURAL GUIDE OF PROGRAMME CERTIFICATION

