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Post Graduate Program in Blockchain and Financial Technology

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OVERVIEW

The Post Graduate Program in Blockchain and Financial Technology (PGP in BCFT) is a comprehensive, industry-oriented program designed to equip learners with the computational, mathematical, financial, and business foundations essential for thriving in the evolving digital economy. The curriculum integrates theoretical concepts with practical applications, enabling learners to develop a deep understanding of blockchain systems, distributed ledger technologies, cryptocurrencies, financial analytics, and AI-driven financial solutions. Upon successful completion of the program, learners will be proficient in the design, development, and deployment of blockchain-based solutions, as well as in applying advanced analytics and intelligent systems to financial and business environments. The program comprises a set of core modules, a dissertation, and a selection of specialization electives to help participants pursue focused interests in domains such as blockchain technology, cryptocurrency systems, financial technology (FinTech), artificial intelligence applications in finance, cybersecurity, and data-driven decision making for businesses.

PROGRAM STRUCTURE

Phase	Program Component	Duration
1	Professional Communication & Career Readiness	1 Month
2	Core Learning Phase	8 Months
3	Specialization Phase	1 Month
4	Capstone Project	1 Month

START MODULE + LAUNCH

Professional Communication, Ethics & Career Readiness

This foundational module begins with an intensive focus on strengthening English language proficiency and professional communication skills, enabling learners to confidently participate in technical training, workplace interactions, and global professional environments.

The initial phase of the module is dedicated to improving spoken and written English, with emphasis on clarity, fluency, vocabulary for professional and technical contexts, pronunciation, listening comprehension, and formal business communication. Learners are trained to express ideas logically, participate in discussions, deliver presentations, and write professional emails, reports, and documentation.

Key focus areas include:

- Functional & Professional English
- Business Communication & Documentation
- Presentation & Stakeholder Interaction
- Emotional Intelligence & Workplace Behaviour
- Ethics in Finance, Data, AI & Blockchain

- Corporate Etiquette, Time Management
- Career Role Orientation (FinTech, Blockchain, Cybersecurity, AI)

Through continuous practice, feedback, mentoring, and guided reflection, learners develop the communication competence, professional maturity, and behavioural discipline required to perform effectively in modern, technology-enabled organizations.

By the end of the module, participants achieve improved English fluency, professional communication capability, and personal effectiveness, forming a strong foundation for advanced technical learning and long-term career success in the context of the Fourth Industrial Revolution.

CORE LEARNING PHASE

The Core Learning Phase constitutes the academic and technical backbone of the program. It is structured into two progressive terms that systematically builds technical competence, domain expertise, and applied problem-solving capability in data, finance, and emerging technologies.

This phase emphasizes experiential learning, conceptual depth, hands-on practice, and continuous evaluation to ensure learners develop both technical proficiency and analytical maturity.

TERM I: TECHNICAL FOUNDATIONS AND DIGITAL COMPETENCE (4 MONTHS)

The first term focuses on establishing strong foundations in data handling, programming, analytics, and computing systems. Learners develop essential technical skills required to operate effectively in modern digital and financial environments.

This term includes the following core modules:

1. Advanced Excel and Power BI for Data Visualization
2. SQL for Data Management and Querying
3. Python Programming for Data Science and Automation
4. Computing Systems and Digital Infrastructure
5. Foundations of Artificial Intelligence and Machine Learning

By the end of Term I, learners build strong technical fluency, logical reasoning ability, and system-level understanding, enabling them to confidently progress into advanced and applied domains.

TERM II: FINANCIAL TECHNOLOGY, INTELLIGENCE, AND SECURE SYSTEMS (4 MONTHS)

The second term builds upon the technical foundation and transitions into applied financial technology, advanced analytics, and secure digital systems. The focus shifts from tools to intelligent systems, financial platforms, and responsible technology use.

This term includes the following advanced modules:

6. Financial Markets, Institutions & Instruments
7. FinTech Ecosystem & Digital Banking
8. Blockchain Technology & Advanced Blockchain Development
9. Virtual Assets and Tokenized Finance
10. Regulatory Compliance & Risk Management (RegTech)
11. Cybersecurity in Financial Systems

By the end of Term II, learners are capable of integrating financial knowledge, and secure system design to solve complex real-world problems and contribute to digital financial innovation.

ELECTIVE AND SPECIALIZATION PHASE

- The Elective and Specialization Phase represents the final stage of the program and is designed to provide learners with the opportunity to tailor their academic journey in line with their professional interests and long-term career objectives.
- During this phase, learners choose a focused pathway that allows them to deepen their expertise in a selected domain, gain practical industry exposure, or broaden their global and interdisciplinary perspective.
- This flexible structure ensures that learners can customize their learning experience to match specific skill requirements, industry demands, and personal aspirations.
- This design enables learners to strategically align their education with targeted career outcomes and emerging opportunities in the financial and technology sectors.

AVAILABLE SPECIALIZATION TRACKS (ANY ONE)

Learners may choose one of the following specialization tracks based on their area of interest:

- **Digital Innovation in Banking and Financial Services**

This track emphasizes the transformation of financial institutions through technology. Learners examine AI-driven trading systems, regulatory technology (RegTech), fraud analytics, and intelligent process automation, developing the skills required to lead innovation initiatives in modern financial organizations.

- **Blockchain Platforms and Enterprise Applications**

This specialization focuses on the technical architecture and implementation of blockchain solutions. Learners explore distributed ledger systems, consensus models, smart contracts, and enterprise blockchain platforms to design and deploy industry-ready blockchain applications.

- **Cloud Computing and Financial Infrastructure**

This track provides hands-on experience in building scalable, cloud-native systems for financial applications. Learners work with deployment automation, data pipelines, and real-time analytics platforms to support high-performance and reliable financial services.

- **Machine Learning & AI in Finance**

This specialization explores the application of machine learning and artificial intelligence techniques in financial services, including credit scoring, fraud detection, algorithmic trading, risk modeling, and robo-advisory systems. Learners gain hands-on exposure to building, evaluating, and deploying AI-driven financial models using real-world datasets.

CAPSTONE PROJECT

- The Capstone Project serves as the culminating academic and professional experience of the program. It enables learners to integrate and apply the full range of knowledge, skills, and competencies developed throughout the curriculum to address complex, real-world challenges in financial technology and digital systems.
- Each project is conducted under the joint supervision of academic faculty and industry practitioners, ensuring both conceptual rigor and practical relevance. Learners are expected to define the problem, design a solution framework, implement and evaluate their approach, and present outcomes in a professional and evidence-based manner.
- The Capstone Project demonstrates the learner's readiness to operate at a professional level by showcasing their ability to combine technical expertise, analytical reasoning, domain knowledge, and ethical judgment to deliver meaningful and impactful outcomes.
- Successful completion of the Capstone signifies that the learner is prepared to contribute effectively to innovation, decision-making, and leadership within the FinTech and digital finance ecosystem.

EXTENDED LEARNING AND PROFESSIONAL ENRICHMENT

At NAMO Campus, learning is designed as a comprehensive development experience that extends well beyond formal classroom instruction. In addition to the academic program, learners are provided with access to a range of optional enrichment opportunities that enhance professional readiness, strengthen individual profiles, and support long-term career growth.

This phase empowers learners to shape their academic experience strategically and graduate with a distinct professional profile aligned with their chosen career path. These offerings allow participants to personalize their learning journey and align it with their specific aspirations and professional objectives.

- **Industry Certifications (Optional)**

Learners receive structured guidance and preparation support to pursue globally recognized certifications offered by leading technology and cloud service providers such as AWS, Google, Microsoft, IBM, and similar organizations. These certifications help validate technical competence, improve employability, and enhance credibility in competitive professional environments.

- **Technology Mentorship Program (Optional)**

Participants are connected with experienced industry practitioners who provide personalized mentoring, career guidance, and technical insight. This mentorship supports skill development, professional decision-making, and network building, enabling learners to gain industry perspectives aligned with their goals and areas of interest.

VALUE TO LEARNERS

Through these enrichment initiatives, learners can:

- Strengthen their professional profile with recognized credentials and endorsements.
- Receive individualized guidance from experienced professionals in the field.
- Gain exposure to industry expectations, best practices, and emerging trends.
- Build meaningful professional networks that support career development.

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CAREER OUTCOMES OF PGP IN BCFT

The PGP in Blockchain And Financial Technology (BCFT) prepares learners for high-impact careers at the intersection of finance, technology, and data. This program is ideal for individuals aspiring to work in the following professional roles:

- **Financial Data Scientist**

Professionals who combine statistical analysis, machine learning, and financial understanding to create data-driven models for forecasting, decision support, and risk evaluation in financial environments.

- **Blockchain Application Developer**

Experts who design and deploy decentralized systems, smart contracts, and blockchain-based platforms focused on digital assets, token ecosystems, transparency, and transaction security.

- **Cybersecurity and Information Assurance Specialist**

Specialists responsible for protecting digital systems, financial data, and online transactions by implementing security frameworks, monitoring threats, and ensuring regulatory and compliance standards are met.

- **Digital Asset and Cryptocurrency Analyst**

Analysts who study crypto markets, blockchain networks, and transaction data to evaluate trends, assess risks, and support strategic investment and governance decisions.

- **Digital Payments and Financial Infrastructure Architect**

Engineers who build and manage scalable, secure, and high-performance payment gateways, financial networks, and transaction processing systems.

- **Algorithmic Trading and Quantitative Analyst**

Professionals who use data science, automation, and financial models to support real time trading strategies, portfolio management, and market analysis.

WHAT MAKES THIS COURSE DIFFERENT

- **Strong Industry Engagement and Partnerships**

The program is developed and delivered in collaboration with industry practitioners, technology partners, and subject matter experts. Learners benefit from guest sessions, live projects, mentorship, and professional networking opportunities that provide direct exposure to current industry practices and expectations.

- **Experiential and Practice-Oriented Learning**

The curriculum emphasizes hands-on learning through case studies, simulations, technical labs, applied assignments, and the Capstone Project. Students work with real datasets, real tools, and real problem contexts, ensuring they graduate with practical competence and confidence rather than only theoretical knowledge.

- **Curriculum Aligned with Emerging Financial Technologies**

Course content is continuously updated to reflect evolving trends and innovations in finance and technology, including artificial intelligence, blockchain, cybersecurity, digital payments, and data analytics. This ensures that learners acquire skills that are relevant, in demand, and aligned with the future of the FinTech ecosystem.

- **Flexible and Personalized Learning Pathways**

Through elective tracks, specialization options, internships, and research opportunities, learners can customize their academic journey to match their individual career aspirations — whether in industry, entrepreneurship, research, or further study. This flexibility enables each learner to build a distinctive professional profile.

- **Innovation and Venture Development Orientation**

Entrepreneurial thinking and innovation frameworks are integrated throughout the program. Learners are encouraged to identify real problems, design technology-driven solutions, and explore venture creation, preparing them to contribute not only as professionals but also as innovators and future founders.

- **Problem-Driven and Impact-Focused Research**

Students are trained to approach challenges through data-driven investigation, analytical modelling, and empirical evaluation. This applied research orientation strengthens critical thinking and evidence-based decision-making, enabling learners to develop solutions that generate measurable value for organizations and society.

CAREER ZONE — INTEGRATED PROFESSIONAL READINESS AND IN-HOUSE CAREER ADVANCEMENT

- The Career Zone at NAMO Campus (NC) is a fully integrated professional development and career deployment framework designed to transform learners into job-ready professionals and enable their transition into NC's in-house technology and financial projects upon successful completion of the program.
- Career preparation is embedded at every stage of the 11-month program through continuous skill-to-role mapping, applied learning on real NC projects, structured portfolio development, professional mentoring, and performance-based evaluations. This integrated approach ensures that learners steadily develop the technical expertise and professional competencies required for emerging roles in financial technology and digital innovation.

- Throughout the program, learners are guided in identifying suitable professional pathways aligned with their interests and strengths. These include roles such as Financial Data Scientist, Blockchain Application Developer, Cybersecurity and Information Assurance Specialist, Digital Asset and Cryptocurrency Analyst, Digital Payments and Financial Infrastructure Architect, and Algorithmic Trading and Quantitative Analyst.
- As learners progress, they are gradually integrated into NC's internal project teams through applied training and apprenticeship-style engagement, enabling them to gain real operational exposure before transitioning into formal professional roles. Students actively contribute to NC's in-house initiatives such as Xpert Bank, NAMO Coin, VidyaCoin, BhimaCoin, PrimeStar, and MediPlix, gaining hands-on experience in areas including financial platforms, blockchain-based applications, digital assets, fintech systems, and technology-driven financial services.
- Learners build demonstrable professional portfolios consisting of project work, code repositories, analytical models, system designs, and Capstone outcomes aligned with NC's operational requirements. They also receive ongoing career coaching, technical mentorship, and professional development support to strengthen their professional identity, work readiness, and domain expertise.
- At program completion, learners are assessed holistically and formally deployed into full-time professional roles within NC's in-house ecosystem, based on specialization, performance, and project requirements. This approach ensures a seamless transition from learner to professional, while simultaneously creating a sustainable internal talent pipeline for NC and providing learners with meaningful, stable, and growth-oriented career opportunities.