

BScIT

Bachelor of Science in
Information Technology



Presidential
GRADUATE SCHOOL

LEAD | INSPIRE | INNOVATE



Affiliated to
WESTCLIFF
UNIVERSITY
California, USA | westcliff.edu



Accredited by
WASC
Senior College and
University Commission

PHILOSOPHY

BScIT is an interdisciplinary program that emphasizes IT and business development. The program produces determined, skilled and qualified human resources to solve real-life IT problems. The students, as IT practitioners, are trained to apply and explore the fundamental IT business development concepts with ethical and social awareness.

This 4-years, 120 credits BScIT degree is a high value investment. The program will allow our students to enter into the technologically advanced world where they will be engaged with various tasks allowing them to have an edge. This course will include designing, programming, knowledge on theoretical systems, networking and the like which are essential for getting into the advanced and dynamic IT sector. As IT has become part of every sector, this course will open a new path and career opportunities for anyone interested in pursuing it.



OVERVIEW

Bachelor of Science in Information Technology (BScIT) at Presidential is a four year 120 credit program designed to produce middle and supportive level IT practitioners. Accordingly, the program is a unique blend of Information Communication Technology (ICT) which covers a wide range of areas from its theoretical, mathematical and algorithms foundations to leading-edge developments in computer intelligent system, robotics, computer vision, system design and development, bioinformatics, and data-mining/data warehouse.

Consequently, Presidential firmly believes that the assortment of courses offered in the program will produce competent IT human resources that will not only cater to the needs of both domestic and global markets but will also help IT practitioners to thrive both individually and professionally.

Successively, the degree empowers the students to function in socioeconomic design and development applying the learned skill effectively. Besides, to hone their knowledge and skills, students will work independently in three distinct components as listed below:

- Develop effective methods to solve any types of computing problems
- Invent modern global ways to use computers in IT sectors
- Innovate, Design, Develop, and Implement software according to global trend Hence, this academic program provides students with a sound conceptual foundation and practical skills in various areas of ICT.





Why BScIT at Presidential ?

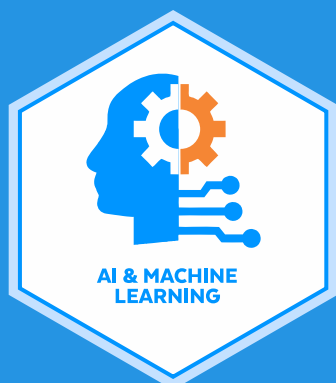
- 1. Academic Excellence:** High-quality standards ensuring a robust education and foundation in your chosen field.
- 2. Cutting-Edge Curriculum:** Access to the latest business and technology trends, ensuring relevance in the ever-evolving IT landscape.
- 3. Strategic Leadership Skills:** Develop a combination of managerial and technical skills to lead IT teams and projects effectively.
- 4. Global Perspective:** Exposure to international business practices and a global network, preparing graduates for diverse and cross-cultural work environments.
- 5. Leadership Opportunities:** Gain the skills needed to take on leadership roles in IT management, consulting, and executive positions.
- 6. Networking Opportunities:** Build a robust professional network with fellow students, alumni, and industry professionals through university events and collaborations.
- 7. Internship and Placement Support:** Benefit from strong connections with companies, facilitating internships and job placements for practical experience.
- 8. Entrepreneurial Skills:** Acquire business acumen to innovate and lead IT ventures, fostering an entrepreneurial mindset.

Career prospects of BScIT

- 1. IT Manager/Director:** Oversee an organization's IT strategy, ensuring alignment with business goals.
- 2. Chief Information Officer (CIO):** Lead the overall technology vision and strategy at the executive level.
- 3. Technology Consultant:** Advise businesses on IT solutions to improve efficiency and achieve strategic objectives.
- 4. Data Analytics Manager:** Manage teams analyzing data to provide actionable insights for decision-making.
- 5. IT Project Manager:** Plan, execute, and oversee IT projects, ensuring timely delivery and within budget.
- 6. Cybersecurity Manager:** Lead efforts to protect an organization's digital assets and ensure compliance with security standards.
- 7. Business Intelligence (BI) Director:** Drive BI initiatives, translating data into strategic insights for the organization.
- 8. Enterprise Architect:** Design and manage the overall structure of IT systems to support business objectives.
- 9. IT Entrepreneur/Start-up Founder:** Apply business and IT knowledge to launch and manage innovative technology ventures.



CONCENTRATIONS



AI & MACHINE LEARNING

Machine Learning is most rapidly growing in technological fields thereby facilitating the interaction of computer science and statistics with Artificial Intelligence and Data Science at its core.

The aim of this concentration is to provide theoretical as well as practical knowledge on various tools, scientific methods, machine learning algorithms with the goal to discover meaningful information and their visualization from large and complex data. Students learn different machine learning approaches which includes supervised, unsupervised as and reinforcement techniques. It also helps to understand the fundamental concepts of information retrieval which deals with retrieving relevant information from a database for a given query information. Another aspect of this concentration is to understand the semantic web technologies which helps to make internet data machine-readable and smarter.



CYBER SECURITY

Computer networking provides knowledge regarding design and implementation of secure network environment including network architecture, topology, and understanding of various coding languages.

The main objective of Presidential with this module is to teach network security, information security, security analysis and vulnerability assessment, digital forensic and cyber law to students.

The aim of this concentration is to provide the knowledge of computer network security, cybersecurity and information security. Students will learn about a set of best practices intended to keep data and network secure from unauthorized access or alteration. It also provides a broad look at the policies, principles and people used to protect data and networks.



SOFTWARE AND WEB DEVELOPMENT

The main objective of Presidential is to teach our students using different tools and techniques about the design and development and maintenance of websites in creative ways. The main aim with this module is to provide the design and development tools, and technical skills and knowledge to the students for the development of quality software in accordance with global market trends.

The aim of this concentration is to provide skills, knowledge for producing scalable, reliable and high quality software within the given time and budget constraints. Students learn different aspects of web and software development in detail such as dynamic website development, microservices architecture, agile approach, architectural patterns such as MVC.



MULTIMEDIA & AR/VR MOBILE GAME

The main aim of Presidential is to produce skilled and specialized Human Resources in multimedia business markets. This specialization area focuses on multimedia industries.

The aim of this concentration is to provide knowledge of multimedia technology which deals with computer controlled integration of text, graphics, audio, video, images, animations and any other media where every type of information can be signified, stored, communicated and handled digitally. It helps to enhance the knowledge and skill on different facets of multimedia such as graphics design, drawing, image processing, creation of animation, video editing.

BScIT CURRICULUM

S.N.	COURSE CODE	COURSE NAME	CREDIT HOURS
1	COM 101	Composition 1	3
2	COM 102	Composition 2	3
3	COM 206	Speech, Debate & Ethics	3
4	COM 207	Critical Thinking & Research	3
5	HUM 201	History of Social Movements	3
6	HUM 221	The Impact of Art: Visual, Design & Media	3
7	MTH 115	College Algebra	3
8	MTH 110	Quantitative Reasoning & Problem Solving	3
9	SBS 210	Psychology, Motivation and Decision Making	3
10	SCI 215	Creating a Sustainable World: Technology & Energy Solution	3
11	DATA 100	Introduction to Data Analytics	3
12	NET 100	Introduction to Networking	3
13	TECH 100	Introduction to Technology	3
14	TECH 110	Technology and Systems	3
15	MTH 150	Discrete Mathematics	3
16	DATA 200	Applied Statistical Analytics	3
17	NET 200	Network Routing and Switching	3
18	DATA 210	Database Design & Analytics	3
19	TECH 220	Information Security	3
20	TECH 250	Technical Documentation and Communication	3
21	NET 300	Cloud Computing	3
22	TECH 300	Internet of Things (IoT)	3
23	LDR 302	Introduction to Leadership	3
24	LDR 303	Foundations in Operations Management	3
25	TECH 310	Management of Information Systems	3
26	TECH 320	Authorization and Access Control Management	3
27	TECH 330	Emerging Technologies	3
28	CAP 490	Capstone Project	3
29	TBD	Numerical Methods	3
30	TBD	Applied Calculus	3
31	CLD 400	Virtualization and Storage	3
32	PRG 330	Python Programming	3
33	PRG 401	JAVA	3
34	PRG 402	Mobile Programming Applications	3
35	DCS 403	Data Structures & Algorithms Design	3

CONCENTRATIONS COURSES

	COURSE CODE	COURSE NAME	CREDIT HOURS
AI & Machine Learning	DCS 404	Artificial Intelligence & Machine Learning	3
	TBD	Introduction to Information Retrieval	3
	TECH 405	Artificial Neural Network & Deep Learning	3
	DCS 402	Big Data Analytics and Visualization	3
	BSIT 375	Knowledge Discovery and Data Science	3
Cybersecurity	CYB 400	Threat and Vulnerability Management	
	CYB 401	Software and Systems Security	3
	CYB 402	Cyber Operations and Monitoring	3
	CYB 403	Digital forensics and incident response	3
	CYB 404	Compliance and Assessment	3
Software and Web Development	PRG 100	System Analysis and Design	3
	PRG 230	Web Programming I	3
	PRG 240	Web Programming II	3
	PRG 310	DevOps and Agile	3
	PRG 404	Software Testing and Quality Assurance	3
Multimedia & AR/VR Mobile Game	TECH 340	Computer Graphics and Image Processing	3
	AVR 400	Introduction to Unity and Simple Games	3
	AVR 401	2D Game Development in Unity I	3
	AVR 402	3D Game Development in Unity II	3
	AVR 404	AR and VR Development in Unity	3





Undergraduate Programs

Undergraduate programs at Presidential Business School offered under the School of Business and School of Technology are **4 years, 120 credits** program with a wide range of concentration area to choose from. Detailed information on each program can be found in the college website www.presidential.edu.np.

FEE STRUCTURE

S.N.	PROGRAM	SCHOOL	UNI FEE	COLLEGE FEE	INTAKE	SCHOLARSHIP
1	BBA	School of Business	USD 2100	Nrs. 8,67,000	Spring, Summer, Fall	Available
2	BSc.IT	School of Technology	USD 2310	Nrs. 11,67,000	Spring, Summer, Fall	Available
3	MBA	School of Business	USD 1995	Nrs. 557,000	Fall, Spring, Summer	Available
4	MBA Data Analytics	School of Business	USD 1995	Nrs. 557,000	Fall, Spring, Summer	Available
5	MBA Information Technology	School of Business	USD 1995	Nrs. 557,000	Fall, Spring, Summer	Available
6	MScIT	School of Technology	USD 1995	Nrs. 500,000	Fall, Spring, Summer	Available

*Quoted fees are for the academic session – Spring, Summer and Fall 2024. Applicable government taxes will be charged in addition.



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GRADUATE SCHOOL

Programs We Offer :

BBA | MBA | MBA-IT | MBA-Data Analytics
MBA-Finance and Economics

BScIT | MScIT | BScIT in Cyber Security
BScIT in Software & Web Development

a Partner School of **Westcliff University**, California, USA

📍 Thapagaun, New Baneshwor, Kathmandu, Nepal 🌐 www.presidential.edu.np

☎ +977-1-5244306, 01-5245006, 01-5244901 ✉ info@presidential.edu.np