

## Master of Science in Information Technology

### Graduation Requirements

Student must complete sixty (60) prescribed credit hours with a cumulative GPA of 3.0 or higher, including 48 credits MBA core course and 12 credits concentration course.

### Eligibility

Bachelor's degree in information technology or related discipline from recognized university of Nepal or from universities around the globe with a minimum CGPA of 2.0, or 45% or an equivalent grade scale in undergraduate level. Students should have completed at least 15 years of schooling. Students with a bachelor's degree not in information technology or a related field can also apply, given that they complete the pre-requisite courses needed for the program.

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### Philosophy

The MSIT program stands as a demanding and invaluable global qualification within the expanding IT industry. It encompasses all facets of designing, building, and managing data, information, and communication technologies, instilling the intellectual rigor required to thrive in the dynamic business world, spanning e-commerce, health, education, and beyond. Graduates emerge as proficient problem solvers, offering insights to unravel the complexities inherent in the vast domains of IT. Ultimately, the program shapes executive team leaders capable of navigating effectively in the ever-changing IT landscape.

In a landscape where over a million IT jobs are created annually, possessing advanced knowledge and understanding provides our students with a distinct advantage in the competitive realms of business and employment. This advanced understanding not only opens doors to technical, management, and information systems roles but also lays the foundation for individual pursuits. Graduates who adeptly combine these aspects find themselves with access to a diverse array of high-demand jobs. It's noteworthy how IT has evolved into a highly respected profession among professionals.

### Overview

The Master of Science in Information Technology (MSIT) program at Westcliff University, offered by the Presidential Graduate School (PGS), is a two-year, 60-credit program. Purposefully crafted, this program is tailored to meet the evolving needs of IT professionals across diverse service sectors. It provides a comprehensive educational experience, equipping students with both knowledge and a theoretical understanding of the information technology industry. The program emphasizes the integration of technology, human resources, and strategic business development, fostering a holistic approach to IT.

Graduates of the MSIT program are adeptly prepared to create innovative computing solutions tailored to address complex business challenges. They acquire the skills to apply these solutions across various realms of IT encountered in their professional roles. The ultimate goal is to empower graduates to actively contribute to the achievement of organizational objectives, making them valuable assets in the ever-changing landscape of information technology.

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## MSIT Specialization



MSIT - AI and Machine Learning



MSIT - Cybersecurity



MSIT - Software Engineering and Software Quality Assurance (SQA)

## What you'll learn

The Master of Science in Information Technology offered by PGS in affiliation with Westcliff University encourages students to achieve the following educational outcomes:

- Create strategic plans that implement information technology requirements and specifications of complex technology systems.
- Analyze, design, develop, and maintain information technology infrastructure to allow for implementation of strategic initiatives that incorporate emerging technologies.
- Compare and contrast various methodologies of computer systems designed for the purpose of creating efficacy in computer-related business functions.
- Create, innovate, design, and improve technology aspects of data collection and analysis to sustain competitive advantage.
- Evaluate computer systems and improve the overall efficiency and effectiveness by incorporating value computing methodologies.
- Analyze and construct database management systems to meet the needs of business and technology decision makers.
- Create and develop the ability to conduct in-depth research, independently or within the enterprise in a broad range of information technology.