CAREER OPPORTUNITIES

1. Information Systems Researcher
2. University Professor/Lecturer
3. Chief Technology Officer (CTO)
4. IT Consultant
5. Data Scientist
6. Enterprise Architect
7. Cybersecurity Strategist
8. Artificial Intelligence (AI) Specialist
9. Digital Transformation Director
10. Government Policy Advisor

CONTACTS

P.O. Box 14634 - 00800,
USIU Road, Off Thika Road (Exit7), Nairobi, Kenya

+254 730 116 290 /291 /247 /300 /397 /503 /522

admit@usiu.ac.ke +254 755 844 849

United States International University-Africa

Education to take you places

www.usiu.ac.ke

@USIU-Africa

@ExperienceUSIU

Doctor of Philosophy in **Information Systems & Technology**

USIU-Africa is accredited in Kenya by the Commission for University Education (CUE) & the United States of America by WASC Senior College and University Commission respectively.

PROGRAM DESCRIPTION

The PhD in Information Systems & Technology is a Science, Technology, Engineering and Mathematics (STEM) designated degree program which stresses technical, societal and organizational aspects of information systems and technology. The mission of PhD. IST is to provide an opportunity for experienced computing professionals to refine and extend their knowledge and skill at an advanced level by treating ICT as an ecosystem beyond Internet access (communication infrastructure), and encompasses multiple elements: ICT human resources; ICT industries and services; ICT applications (informatics) in government, business and finance, and civil society organizations; ICT in various sectors (education, health, agriculture); ICT policies and regulations; and ICT in institutional leadership.

LEARNING OUTCOMES

1. Evaluate conceptual and theoretical arguments of Information Systems and Technology architecture.
2. Apply Information Systems and Technology knowledge, skills and values to solve issues in organizations and the society.
3. Design, conduct and disseminate research on Information Systems and Technology issues that impact organizations and the society.

DEGREE REQUIREMENTS 72 UNITS

CORE COURSES 42 UNITS

PIS	8110	Advances in Cloud Computing	3 Units
PIS	8120	Problem Solving Paradigms in Informatics	3 Units
PIS	8130	Computing Research Methods I	3 Units
PIS	8140	Advanced Topics in Cryptography and Blockchains	3 Units
PIS	8150	Research Seminar	3 Units
PIS	8160	Information Systems Theories	3 Units
PIS	8170	Advances in Machine Learning	3 Units
PIS	8180	Advanced Statistical Techniques	3 Units
PIS	8190	Computing Research Methods II	3 Units
PIS	8210	Information and Communications Technologies for Development	3 Units
PIS	8220	Qualitative and Quantitative Research Methods	3 Units
PIS	8230	Information Security Governance	3 Units
PIS	8240	Comprehensive Exams (Oral and Written Exams)	6 Units

DISSERTATION 30 UNITS

PIS	8250	Thesis	Proposal Writing and Defense	9 Units
PIS	8310	Thesis	Implementation/Data Collection	9 Units
PIS	8320	Thesis	Data Analysis and Report Writing	9 Units
PIS	8330	Thesis	Thesis Defense (PhD Viva)	3 Units

Comprehensive Exams

A successful completion of the course work will be followed by a comprehensive written examination.
The pass mark of 80% (B grade) will apply to the comprehensive examination.

PhD Thesis

A student shall only be allowed to embark on their thesis only after successfully completing the coursework and passing the Comprehensive Examinations.

Degree Completion Timeline

The students must publish 2 papers in refereed peer journals to graduate. The maximum amount of time for completing a PhD. IST degree is 6 (Six) years. An approved Leave of Absence does not change the time limits.