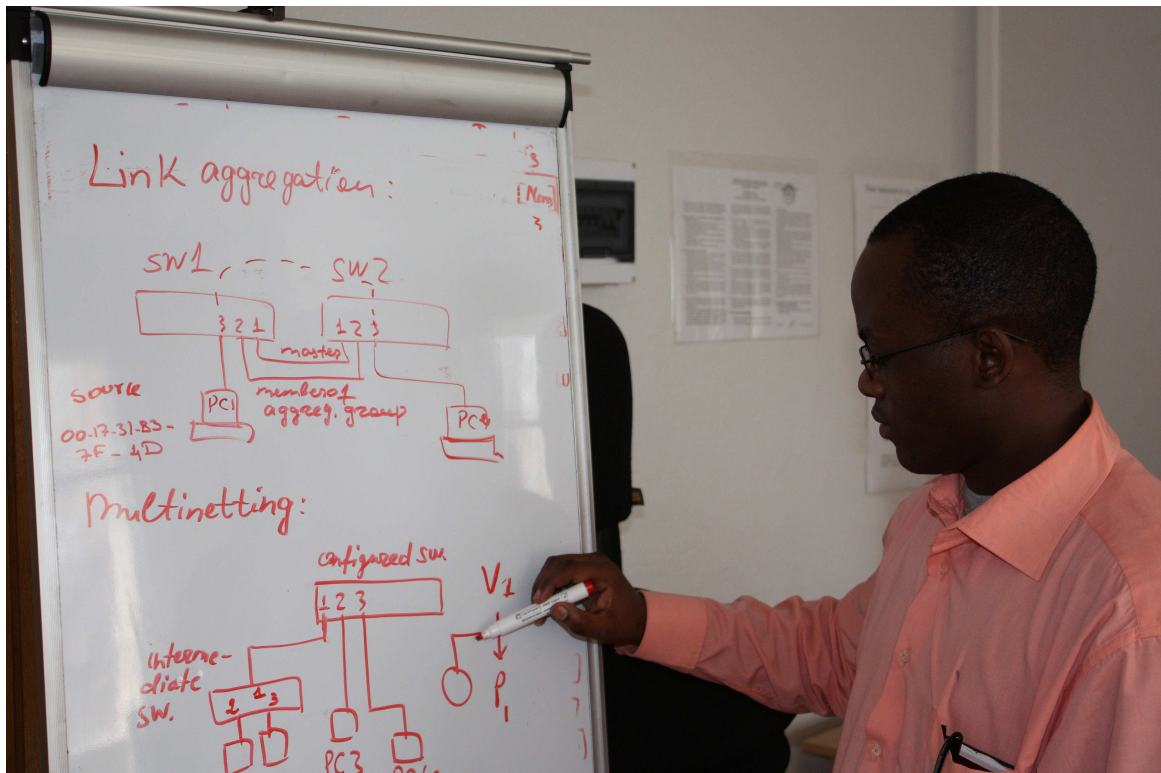


# Master of Science in Computer Systems and Networks

A Master of Science degree in Computer Systems and Networks program generally focuses on the implementation and design of computer hi-performance systems. Students can explore the complementary nature of hardware and software. They can learn to provide digital solutions to problems across a variety of technology-based industries. Students are typically expected to participate in software and hardware research and development processes. Emphasis is often placed on investigating new ways to approach complex and dynamic computer networking issues and creating greater efficiency of solutions.

## Course Topics



Students can take courses in computer languages, programming and software engineering. A master's degree program takes 1.5 or 2 years to complete (by student choice). Courses within the Master program includes:

1. Computer System and Network Performance Analysis and Evaluation
2. Wireless Networks and Special-Purpose Networks
3. Project Management
4. Computer Network Optimization
5. Parallel Modelling on Innovative HPC Systems
6. Enterprise Software Development

7. Artificial Intelligence Systems
8. Advanced Computer Network Security
9. Software Testing and Quality Assurance
10. Advanced Robotics
11. Advanced Computer Network Administration

### **Popular Career Options**

Upon completion of a Master of Science degree program in Computer Systems and Networks, graduates are typically qualified for employment with government agencies, private product development and research facilities. Some possible job titles in this field include:

1. Data analyst administrator
2. Network administrator
3. Computer systems and networks design specialist
4. Systems engineer
5. Project manager
6. Teacher
7. Researcher
8. PhD degree student



The Industry Certifications are available in the KNURE:

1. The regional Cisco Network Academy, located in KNURE offers a wide variety of certification courses leading to international certificates.
2. The University's Industry Certification center offers the programs of Microsoft IT Academy preparing the students for taking Microsoft Certified Professional (MCP) exams.
3. The **Intel Software Training Program** offers basic and advanced software development training.