Strathmore University
School of Computing and Engineering Sciences

Masters in Spectrum Management

About the Course

Wireless technology now drives the development and diversification of information and communication services for governments, industry and the public. The wireless sector is believed to have a significant contribution to the Gross Domestic Product (GDP) of national economies. The social impact of new wireless services from smart phones and mobile Internet to radio frequency identification tags and wireless car keys cannot be overstated. However, this rapid evolution of wireless services depends on one crucial asset: the radio spectrum, a limited resource of strategic importance. This Course has therefore been developed collaboratively by Strathmore University and the International Telecommunication Union (ITU).

The Master's in Spectrum Management will offer students a solid system of training in the theory and practice of modern Spectrum Management (SM). Based on an overview of the current situation, the programme will create a unique and credible niche, complementing the existing professional Spectrum Management training options and promoting the harmonization of Spectrum Management practices.

Program Structure

The course covers 16 course units offered over 4 academic semesters and a subsequent dissertation project. Some core modules include: Spectrum Engineering, Spectrum Monitoring, Wireless Telecommunications Technologies and Terrestrial TV broadcasting planning and digital transition.

Course Requirement

To qualify for the award of the Masters in Spectrum Management, the student must take and pass all required modules of the programme.

Expected Learning Outcomes

At the end of the programme, the students will be able:

1. To acquire a detailed understanding of SM and its practical realisation in a complex, multi-layered structure of international, regional and national levels.
2. To understand the role and functions of the different stakeholders involved and the legal framework underpinning all the interactions.
3. To gain expertise in the role and operational principles of authorisation processes (licensing) for radio services.
4. To gain a detailed understanding of the interdisciplinary aspects (technical, business, management and policy) of spectrum management.
5. To assess how knowledge is enhanced by research potentially leading to further progression and PhD research studies.

FOR MORE DETAILS CONTACT:
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Why Study in Strathmore University?

1. **Global exposure/ international outlook:** Strathmore's international faculty and partners, global alumni network and diverse student body connect you with a world of opportunities.
2. **A Pioneer in Standards:** Strathmore University, its alumni and its partners have always been at the forefront of business education and standards. It is the first university in Kenya to become ISO 9001:2000 certified.
3. **World-class facilities:** Strathmore has avant-garde architecture that has been designed and built uniquely and in compliance with energy conservation requirements. This ensures delivery of a rich and holistic learning experience for its students.
4. **Academic rigour:** Through our innovative research and learning approach, you will enhance your capacity to manage and solve business challenges.
5. **People-focused:** We believe that putting people at the center of decisions is essential to sustainable business growth and outstanding business education.
6. **Teaching staff:** Our dedicated teaching staff are active professionals who will bring you face-to-face with real situations. You will learn through:
   - Innovative teaching.
   - Individualised attention and guidance.
   - Small class groups.
7. **Timely completion of studies:** Students are assured of completion of an uninterrupted learning period of 2 years.