

## MASTER OF SCIENCE IN OPERATIONAL COMMUNICATIONS (MOC)

### BRIEFING

Department of Computer Engineering and Information Technology worked with a Consultant from UK to develop the Curriculum for the Master of Science in Operational Communications (MOC) based on the experience of Master of Communications Management (MCM) Programme and also the need for human capacity building in ICT and Telecommunication sector in Rwanda and Africa. Prospective candidates for the programme are from Regulatory Authorities, Mobile Telecommunication Operators, Internet Service Providers, and Heads of ICT units in both private sector and public institutions.

### MODE OF COURSE DELIVERY

The course consists of 8 taught modules and a dissertation/project. Each module will be taught for a continuous period of one week. Students will have three weeks to complete assignment before beginning another module.

The course is taught by experienced Professors from UK (UKTA, <http://www.ukta.co.uk> & Institute of Advanced Telecommunications at Swansea University, <http://www.swan.ac.uk/iat/>).

### PROGRAMME STRUCTURE

Module	Credits
Environment of ICT's	15
Legal and Regulatory Requirements for ICT's	15
Project Management and Financial Risk Analysis	15
<b>Network Architecture</b>	15
Contracting Management	15
<b>Wireless Access to the Information Society</b>	15
Economics and Marketing	15
<b>Service Level Management of HR and Technology</b>	15
Dissertation / Project	60
<b>Total</b>	<b>180</b>

The course will be run by KIST under the support of United Kingdom Telecommunications Academy (UKTA) and International Telecommunication Union (ITU).

Upon completion of **one year programme**, successful candidates shall be awarded the degree of the **Master of Science in Operational Communications** by Kigali Institute of Science and Technology and a professional certificate of completion by UKTA & ITU.

## **OBJECTIVES**

The main objectives of the course are:

1. To provide an understanding of the global environment of ICT with an analytical study of the nature of the business and processes involved.
2. To provide an understanding of the project management and implementation of ICT projects.
3. To provide an understanding of the legal and regulatory requirements for ICT.
4. To provide an understanding of network architecture as applied to the communications industry.
5. To provide an understanding of the contracting management issues in communications industry.
6. To understand the importance of service level management, human resource management issues and technology.
7. To provide an understanding of wireless access to the information society.

## **ADMISSION REQUIREMENTS**

The minimum entrance requirement to MOC Programme at KIST is a **Bachelor Degree with Lower Second Class** or Equivalent Qualification in **ICT related courses**, such as computer science/engineering, information technology, electrical engineering, electronics and telecommunications engineering, or electromechanical engineering, plus **at least two years working experience in ICT and/or telecommunications industry**.

### **Academic Fees**

Academic Fees is **US\$ 5,145 per year** for International students and equivalent amount in **Frw** for local participants based on the current exchange rate.

### **How to apply**

Get application form at <http://mcm.kist.ac.rw/mcm/applicationform.doc> fill the form and submit either physically to **Computer Engineering & Information Technology (CEIT) Office (KIST1, 3<sup>rd</sup> Floor, Room M312)** or send online to [jonathan@kist.ac.rw](mailto:jonathan@kist.ac.rw) with all the necessary

documentation as stated in the application form. For those who want to send through post office use the address below:

**Mr. Jonathan P. Mwakijele,  
MOC Programme Coordinator,  
KIST,  
B.P. 3900,  
Kigali, Rwanda.**

**Tel: +250788500257**

**Email: [jonathan@kist.ac.rw](mailto:jonathan@kist.ac.rw)**