Department of Computer and Systems Sciences

Stockholm University

Education plan

for

Master's Programme in Information and Communication Technology for Development **120.0 Higher Education Credits**

Masterprogram i informations- och kommunikationsteknik för utveckling **120.0 ECTS credits**

Programme code:	SMIKO
Valid from:	Autumn 2015
Date of approval:	2013-09-13
Changed:	2015-05-19
Department:	Department of Computer and Systems Sciences

Decision

This programme syllabus was approved by the Social Sciences Faculty Board 2013-09-13. Revised 2015-05-19.

Prerequisites and special admittance requirements

A Bachelor degree or a degree equal to 180 ECTS. A minimum of 40 ECTS within computer and systems sciences (e.g., computer science, systems science, informatics, information systems etc.)

Language requirements: English B or the equivalent

Programme structure

The first year will provide basic knowledge about information and communication technologies in development cooperation. The second year will provide a specialization in information and communication technologies for development as well as the master thesis work. The programme is distributed on-line.

Goals

In addition to the general learning goals stated in chapter 1, paragraph 9 of the Swedish Higher Education Act, the following goals according to Higher Education Ordinance are applied:

Knowledge and Understanding
For a Degree of Master the student shall:

- demonstrate knowledge and understanding within Computer and Systems Sciences, including both broad knowledge of the field and a considerable degree of in-depth knowledge in certain areas of the field as well as insight into current research and development work

- demonstrate in-depth methodological knowledge in Computer and Systems Sciences

- demonstrate knowledge and understanding about the role of ICT sustainable development in development countries from the perspective of individuals, organizations and society and

- demonstrate knowledge and understanding within the field of information and communication technologies in developing regions and other areas with limited access to ICT.

Skills and Competences

For a Degree of Master the student shall:

- demonstrate the ability to critically and systematically integrate knowledge and analyse, assess and deal with complex phenomena, issues and situations even with limited information

- demonstrate the ability to critically, autonomously and creatively identify and formulate issues as well as to plan and, with appropriate methods, undertake advanced tasks within predetermined time frames and thus contribute to the formation of new knowledge as well as the ability to evaluate this work

- demonstrate the ability to clearly report and discuss both orally and in writing, own conclusions and the knowledge and argumentation which they are based on, in dialogue with different audiences in national and international contexts

- demonstrate such skills that are required either for participation in research and development work or for conducting autonomous work within other qualified areas of activities and

- demonstrate the ability to collaborate in development projects with participants with varying backgrounds

Judgements and ethical approach
For a Degree of Master the student shall:

- demonstrate insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used

- demonstrate the ability to identify the personal needs for further knowledge and to take responsibility for own continuous learning and

- demonstrate an understanding of the roles of ICT and knowledge in development cooperation and of the responsibility that people have for how these are applied

Courses

First Semester
Understanding ICT for development I, 7,5 credits
ICT for Developing World with Focus on Technology, 7,5 credits
Case studies of ICT4D projects, 7,5 credits
Scientific Communication and Research Methodology, 7,5 credits

Second Semester
Understanding ICT for development II, 7,5 credits
Project Management, 7,5 credits
Research Methodology for Computer and Systems Sciences, 7,5 credits
Special Topics in Technology for Development, 7,5 credits

Third Semester
Elective courses from a list provided by the department, 15 credits
Dimensions of ICT for development, 15 credits

Fourth Semester
Master Thesis in Computer and Systems Sciences, 30 credits

Degree

The program leads to a master degree in the main field of computer and systems science.

Misc

Students who have been admitted to the program but have not finished the program during the two years period may ask to finish the program even after the program is ended. In this case limitations specified in the courses syllabi are applied.
The language of tuition is English