

<b>Fach</b>	<b>Integrated Water Resource Management</b>
<b>Abschlussgrad</b>	Master of Science
<b>Hochschule</b>	Fachhochschule Köln
<b>Datum der Akkreditierung</b>	25.07.2008
<b>Dauer der Akkreditierung</b>	30.09.2013
<b>Start des Studienbetriebs</b>	Wintersemester 200X/0X Sommersemester 200X
<b>Kategorisierung</b> <small>(nur für Masterstudiengänge relevant)</small>	<input type="checkbox"/> konsekutiv <input checked="" type="checkbox"/> nicht-konsekutiv <input type="checkbox"/> weiterbildend
<b>Akkreditiert als Teil eines Mehrfächerstudiengangs?</b>	<input type="checkbox"/> ja <input checked="" type="checkbox"/> nein
<b>Fakultät/Fachbereich</b>	Institute for Technology in the Tropics / Institut für Technologie in den Tropen
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<b>Auflagen</b>	<ol style="list-style-type: none"> <li>1. The criteria for registration in the Master's programme should clearly differentiate between the prerequisites required for enrolment applications and the conditions and regulations that the funding organisation will apply.</li> <li>2. Some of the modules lack an explicit focus on IWRM. It is therefore necessary to revise the focus of the modules' objectives with special attention given to the overall IWRM objective of the Master's programme.</li> <li>3. Certain techniques like modelling approaches and data management have been completely left out of the curriculum. Since these techniques are a prerequisite for planning scenario assessment and evaluation, an additional methodological module must be offered to cover these technologies.</li> <li>4. The duly adopted version of the Examinations Regulations must be presented.</li> </ol>
<b>Auflagen erfüllt?</b>	yes
<b>Profil des Studiengangs</b>	<p>The double-degree Master's programme in "Integrated Water Resource Management" (M.Sc. IWRM) is offered by the Institute for Technology in the Tropics (ITT) at the Fachhochschule Köln in cooperation with the "Water and Environment Research and Study Center" (WERSC) at the University of Jordan.</p> <p>This Master's programme primarily aims to provide holders of a Bachelor's degree in the field of water management and related areas the opportunity to gain the latest insights into the science and practice of Integrated Water Resources Management (IWRM), with a focus on qualifying these graduates for leading positions as "water managers".</p>

### **Zusammenfassende Bewertung**

This includes management and leadership skills as well as regional and intercultural competencies.

The programme covers basic modules on the regional and international context, on IWRM principles and planning, economics and management, as well as specialised modules on topics of particular relevance to water management issues in the Arab region. Team projects in which the acquired knowledge is applied play a pivotal role in the programme. The programme ends with a written Master's thesis that again promotes the transfer of the acquired knowledge to an individual project.

Participants of the programme have to fulfil the following requirements: Hold a Bachelor's degree of relevance to the topics covered in IWRM: science, engineering, agriculture, economics, social sciences, provide two letters of recommendation and submit a letter of motivation and provide proof of proficiency in English (TOEFL, IELTS, CAE).

The studies cover a period of three semesters. The first semester takes place in Amman, the second in Cologne. The third semester is dedicated to the Master's thesis (25 CP + 5 CP for oral exam), which should be written preferably in Jordan or another Arab country.

During the first semester in Jordan the focus is on basic modules aimed at providing an overview, while some specialised modules focus on the Jordanian experience in water resources management and technology.

The second semester in Cologne offers two basic modules on water management. The focus here is on specialised modules related to topics of water management emphasising the particular situation and experiences in the German, respectively Europe.

The didactic concept consists of two components: a technical and a social side. The technical component provides the participants with the relevant, up-to-date knowledge necessary for taking decisions on the sustainable management of water resources. The social component is equally important and aims to equip the participants with the communicative, intercultural and managerial skills needed for leadership positions in the water sector and for working efficiently within the scope of international cooperation.

The profile of the three semester Master's programme is ambitious and orientated in line with the actual demand that extends even beyond the potential professional careers outlined below, since a fully-integrated approach to the management of a scarce resource is required in more areas than just the water sector.

With the restriction to only two teaching semesters, those students, in particular, who do not have a water engineering background will not be able to become professional "water managers" within such a short time. However, if all the opportunities are well absorbed, it will sharpen their skills for a cross-sectional approach to the water sector. The team and intercultural approach is essential to the concept of the Master's programme. It reflects the lesson learned that technical solutions are not the answer to an urgent local or global concern for natural resources, but the initiation of a societal negotiation of resource management. Rather than presenting a solution, sectors of society have to be involved in the change process.

Grasping the subject of IWRM in the teamwork between students with an interdisciplinary and German or Arabic background is probably the most efficient way of generating the above-mentioned desired capabilities. This interdisciplinary approach should be supported by additional Arabic, German and English language courses offered as context studies with the financial support of the funding organisation.

**Mitglieder der  
Gutachtergruppe**

The curriculum is well designed and after revision with respect to the conditions and recommendations will offer a good academic schedule that can attract students from various academic backgrounds. This, in turn, will support the interdisciplinary approach that forms the basis for the Master's programme and makes it attractive, in comparison with other more technically-orientated initiatives.

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Prof. Dr. Miguel A. Losada, Universidad de Granada, Grupo de Dinámica de Flujos Ambientales

Jochen Regner, GTZ Water Program, Amman (Representative of professional practice)

Stefan Schirm, Fachhochschule Trier, Versorgungstechnik (Student referee)

Verfahrensnummer AQAS