Higher Education Cooperation Maghreb
funded by the DAAD
Higher Education Cooperation with the Maghreb

Since 2011, the Maghreb shifted increasingly into the international focus. The “Jasmin Revolution” attracted not only the attention of world politics, but it also raised interest in education cooperation as well as in projects and exchange.

Germany and German education enjoy high popularity in the Maghreb. Since 2012, there is a DAAD cooperation office for the Maghreb, established in Tunis. It funds and supports collaborations between countries, partners, alumni and economic experts, and spins a tight network of individual contacts and structures. The network of German alumni from the Maghreb countries is large and active: Many alumni of German Universities play an important role when returned back to their country.

The DAAD offers individual funding opportunities (scholarships) worldwide. Higher education cooperation programs provide structural and institutional funding in teaching and research. In the Maghreb countries, the greatest recipient is Tunisia (689), who’s funding is evidently higher than those of Morocco (414) and Algeria (170). Relevant structural programs are the “Transformation Partnership”, the “Higher Education Dialogue with the Muslim World” and the cooperation programs for developing countries.

German-Arabic Transformation Partnership Program

Since 2011, Germany accompanies the political changes in the Arab region. The “Transformation Partnership Program”, funded by the federal foreign office, shall strengthen the capabilities for scientific innovation in these countries. Modernization in teaching, structural development in scientific research and management as well as the improvement of graduate employability are of central importance to the projects. Currently, there are 8 funded university partnerships and 8 research partnerships (Al Tawasul) in Tunisia. Since 2011, a total of 98 German-Tunisian projects out of 227 short- and medium-term measures of German-Arab cooperation were supported by this program.

Higher Education Dialogue with the Muslim World Program

The DAAD funds, already since 10 years, the cultural dialogue and intercultural understanding in academic environments through the program “Higher Education Dialogue with the Muslim World”. It fosters dialogue with students, teaching staff and researchers from the Muslim world, guided by their common interests of research. Tunisian and Algerian higher education institutions are currently taking part in four funded projects.

University meets Business Program

This program supports practice-oriented studies as well as business-oriented profiles of higher education institutions in development countries. It therefore helps to better match the educational qualifications to the demands of the economy. This practice orientation shall be accomplished through their cooperation with the German and the local economy. There is currently one funded cooperation program.

The brochure “Higher Education Cooperation Maghreb” (funded by the DAAD) provides an overview of current cooperation projects, presents collaborations in teaching and research and lists their aims and partners. The collection does not attempt to be exhaustive: it lists those projects that are accompanied, funded and connected by the DAAD Tunis.

I wish you a good read and I am looking forward to your feedback!

Director DAAD Tunis
# Table of Contents

**German-Arab Transformation Program: University Partnerships**

**Inception of Study Programs:**
1. Inception of a Professional Master in African Studies ......................................................... 05
2. Master Degree in Congenital Heart Diseases ................................................................. 06
3. Master Degree In Health Economics .............................................................................. 07
4. Renewable Energy and Energy Efficiency for the MENA Region ........................................ 08
5. Salinity in Transformation - Symposium ........................................................................ 09

**Exchange and Networking:**
6. Academic Innovation in Sport Science in Network.......................................................... 10
7. Boosting Energy Sciences and Computational Engineering Skills into the Education and Research Structures at ENIG ................................................................. 11
8. EMPOWER Tunisia........................................................................................................... 12
9. German-Arab Graduate School....................................................................................... 13
10. Research Training Group for Intelligent Embedded Sensor Solutions ...................... 14

**German-Arab Transformation Program: Research Partnerships - Al Tawasul**

**Research in Environmental Science:**
1. Aeolian Dynamics in Southern Tunisia .............................................................................. 16
2. BIOlive ................................................................................................................................... 17
3. Proteomics and Halophyte Stress Tolerance....................................................................... 18

**Research in Cultural and Political Science:**
4. Interkulturelle Linguistik Deutsch-Arabisch .............................................................. 19
5. Maghreb in Transition ...................................................................................................... 20
6. Research Training Network Novel Cytotoxic Drugs from Extremophilic Actinomycetes .. 21
7. Responsibility, Justice and Culture of Remembrance .................................................... 22
8. Theralytics: Smart E-Health Services for Treating Patients in Tunisia ............................. 23
9. Transformation - Culture - Gender.................................................................................. 24

**Higher Education Dialogue with the Muslim World:**
1. Master program „Information Technology“ ................................................................. 26
2. Fostering the Entrepreneurial Spirit for Academic Innovations in Information Technology ............................................................... 27
3. Reviving the Algerian-Thuringian University Collaboration ........................................... 28
4. Service-Oriented Software Architectures in Distributed Systems ..................................... 29

**University-Business-Partnerships:**
1. German-Tunisian Partnership in Textiles and Clothing .................................................. 31
2. Ingolstadt-Sousse Cooperation for Higher Engineering, Know-How Transfer and Employment .......................................................... 32

**Impressum** ......................................................................................................................... 33
German-Arab Transformation Program:

University Partnerships
Inception of a Professional Master in African Studies

Facts

Country
Tunisia

Cooperation between
the Faculty of Letters and Human Sciences, University of Sousse, Tunisia and
the Institute of African Studies, University of Bayreuth, Germany

Project duration
2015-2017

Project Responsibility
Prof. Dr. Moncef Ben Abdeljalil
Dr. Franz Kogelmann

Project objectives

• Launch of a multi-disciplinary Master Programme in African Studies at the University of Sousse in September 2017
• Transgress limits of academic disciplines and strengthen expertise and skills by applying them to the study of African societies and cultures
• Internationalization in terms of teaching staff exchange, studies abroad, and research cooperation
• Facilitating contacts and collaborations with diplomatic institutions and various national and international organisations of development cooperation
• Ensure practical relevance of African Studies in Sousse and future job perspectives both in practice and academics

Target group

Scholars, teaching staff, and students with different disciplinary backgrounds participate in the activities throughout the project process. Moreover, the project aims at linking universities, research institutions, NGOs, diplomatic institutions and further actors concerned with Africa.

Contact

Project Coordinators
Dr. Ramzi Ben Amara (ramzibenamara@gmail.com)
Clemens Romankiewicz, M.A. (clemens.romankiewicz@uni-bayreuth.de)

Measures 2016

• Identification of project participants and potential international partners
• Intensifying the cooperation with the University of Rabat, Morocco
• Signing a Memorandum of Understanding with the University Mohamed V
• Setting up of core group accompanying the process of developing the curriculum of the Master programme
• Realisation of a summer academy at the University of Bayreuth in July 2016
• Coordinators’ workshop
• Exchange of teaching staff
• First Draft of the curriculum
Transformation Partnership
Master degree in congenital heart diseases

Project Overview
Congenital heart diseases (CHD) are frequent (1% of births) and can be cured with excellent results. Patients with CHD have a bad prognosis in Tunisia because of the lack of experts in management of CHD and many patients are treated abroad with a high cost. The Master degree in CHD aims to improve patients outcome and reduce the cost by enhancing the academic level and skills of Tunisian doctors in the diagnosis and management of CHD.

Figures & facts
- Duration of the Master: 2 Y
- Project: 3 years from 2011-2014
- First edition of the Master: 2011-2013

Preparation
Collaborative tailoring of the Master degree by professors from the medical schools of Cologne and Sousse:
- Issues to cover
  - Organization of courses and trainings
  - List of teachers from Germany and Tunisia
  - Didactics: mode and organization

Figures & facts
- University of Cologne: Medical School
- Pediatric cardiology department in the Cologne University hospital
- University of Sousse: Medical School
  - Ibn El Jazzar of Sousse
  - Sahlo University Hospital

Partners

Objectives
Target Group: doctors in public hospitals
- Cardiologists
- Pediatricians & neonatologists
- Pediatric surgeons
- Anesthesiologists & intensive care doctors

Measure 1
- First edition of the Master degree
  - Seminars for academic teaching:
    - January 2011- June 2012: 4 seminars
    - September 2012- June 2013: 3 seminars,
    - Methods: Conferences, self learning tasks, interactive sessions, peer-to-peer learning & workshops: 4 (techniques)
  - Second edition of the Master:
    - November 2013- April 2015: 11 seminars, 3 workshops,
    - Final examination & papers presentation in June 2015

Measure 2
1. Teachers
   - Scientific support for teachers: sharing experience with German colleagues in Cologne hospital and Sahlo Hospital:
     - Diagnostic & Therapeutic Techniques
     - Teaching methods
   2. Students
     - Trainings in expert cardiology departments in Cologne: 2 weeks / each student
   End of first edition:
     - Evaluation: June 2012 & June 2013
     - Clinical research winded up / a paper

Chances
- Bridge to the international medical community
- Snowball – effect into regions / Multiplier effect
- Enhancement of medical care quality
- Improvement of patients outcome

Challenges
- Budget limitation
- Too short trainings duration in Germany; does not allow to acquire new skills
- The program did not cover the hall second edition of the master and only few students could achieve a training in Cologne!!
- Persistent severe lack of surgeons & anesthesiologists impeding consisting improvement of patients outcome ➔ specific program for pediatric cardiac surgery needed and strongly recommended

Contact: Pr Dr Boughzela Essia  
Sahlou university hospital, route de ceinture 4054, Sousse  
essiaboughzela@yahoo.fr

Pr Dr Konrad Brockmeier  
University Hospital of Cologne, Germany  
Konrad.brockmeier@uk-koeln.de
Master Degree In Health Economics
Pr. Samy Kammoun; Pr. Mohamed JALLOULI, FACS
Medical School of Sfax, University of Sfax, Tunisia

Project Overview
Idea of Project: Implementation of a Master Degree In Health Economics

Preparation
2015-2017
Funding: DAAD for the first year

Partners
- Institute for Health Economics and Clinical Epidemiology,
- University Hospital of Cologne
- Medical school of Sfax,
- Sfax university

Objectives
Target Group
- Medical doctor and economist in Tunisia

Measure 1
Participation to “The German Society for Health Economics” (DGGÖ) ANNUAL MEETING 2016 BERLIN
IMPROVE HEALTH SYSTEMS: COMMON CHALLENGE FOR SCIENCE AND POLICY
14 and 15 March, 2016
Technical University Berlin

Measure 2
Sfax, Tunisia, the date will be fixed later
Finalization of the program and the schedule of learning module

Chances
We hope that will allow the improvement of our system by a better implication of health professional in the management of health facilities.

Challenges
The challenge is to complete this Master Degree with the active participation of the two partners and subsequently ensure sustainability of this program.

Contact: Medical School of Sfax, 3029 Sfax, Tunisia/ Pr. Samy Kammoun: samy.kammoun@gmail.com / Pr. Mohamed Jalloul: mohamed.jalloul@rms.tn
Transformation Partnership

Double degree international Master of Science (M.Sc.) program
Renewable Energy and Energy Efficiency for the MENA Region - REMENA

We offer
- joint M.Sc. program by the University of Kassel (UKAS) in Germany, the Cairo University (CU) in Egypt, and the University of Monastir (UM) in Tunisia
- living and learning in Germany and the MENA region
- courses on advanced renewable energy and energy efficiency concepts and technologies
- training in intercultural competencies

Program structure
- overall 21 months full-time program in English
- program start in April in Kassel or in October in Cairo or Monastir
- 6 months studies at CU in Egypt or at UM in Tunisia
- 6 months studies at UKAS in Germany
- 9 months Master project with an institution or company in Germany, MENA, etc.

Admission requirements
- bachelor degree in social or natural sciences, economics, or engineering
- open to all nationalities
- practical experience (internships, vocational education, professional work, and others) preferably in the energy sector

http://www.uni-kassel.de/ees/ees/remen
Contact in Tunisia:
Dr. Eng. Sousseh El Allal
Energy Engineering Department, National Engineering School of Monastir
Avenue Ibn El Jazzar, 5019 Monastir, Tunisia
Email: souheileallal@gmail.com - Phone: +216 55 45 20 98
Transformation Partnership

Salinity in Transformation - Symposium

Centre for Water Researches and Technologies 
TU Berlin

Project Overview

Seawater desalination in the MENA-region is currently achieved using energy-intensive and environmentally hazardous technologies. In cooperation with research partners in Jordan and Tunisia, TU Berlin is developing an integrated teaching module “Desalination and Renewable Energies” addressing integrated solutions and best-practice models. The module will be implemented in international master programmes at TU Berlin and related programmes of the project partners.

Facts & Figures

Duration of project: 2016 - 2017
Funding: Transformation Partnership, program line 1

How to reach the objectives?

Preparation

Preparatory Workshop (2015)
Kick-off meeting (2016)

Partners

- Technische Universität Berlin (TUB), Germany
- German-Jordanian University (GJU), Madaba, Jordan
- Princess Sumaya University for Technologie (PSUT), Amman, Jordan
- Centre de Recherche et des Technologies des Eaux (CERTE), Tunis, Tunisia

Objectives

Master and PhD students to improve their career opportunities
Institutions of research and education (e.g. universities) to broaden their portfolio and educational syllabus
Regions with water scarcity to be supplied with advanced knowledge and technologies
Promote good practice and gender equality in module development according to Bologna process

Measure 1

Realizing three workshops on core subjects to allow the exchange of the project partners
- Technology & Sustainability,
- Transformation & Governance,
- Module Development.

Measure 2

Two test versions of the new module is conducted for a selected group of master and phd students with strong focus on the evaluations and improvements of the workshop.

Chances

SIT is a starting point to mutual considerations of desalination technologies and renewable energies. Synergies will be found and promoted and contribute greatly to facing water scarcity especially in the MENA region.

Challenges

The greatest challenges is faced in bringing students from different backgrounds (water & energy) on a common basic knowledge for this module as well as the adaption of the module structure to different higher education and university systems

Technische Universität Berlin, Institut für Technischen Umweltschutz, Fachgebiet Umweltverfahrenstechnik,
Prof. Dr.-Ing. S. Geissen, Sekr. KF2, sven.geissen@tu-berlin.de
**Project Overview**

**Academic Innovation in Sport Science in Network**

The aim of the project is to create through academic innovation and through the involvement of all activities connected to the sport disciplines and industries a powerful international network between Germany and the Arab states.

**Preparation**

**Duration of the project:**

2015-2016

**Funded by DAAD**

**Partners**

**Germany:** Otto-Von-Guerick University

**Tunisia:** Sfax University

**Egypt:** Assuit University

**Jordan:** Yarmouk University, Irbid

**Morroco:** Mohammed V University, Rabat

**Objectives**

The aim is to develop university teaching and research, increasing the impact of impulses to the expression of children’s and youth sport, competitive sport, family sport, seniors sport and rehabilitation sport. For the construction of this sport forms a professionals in the field of sport science are required to work together with sports federations and the sports industry. The activities to achieve this objective include workshops and conferences, as well as students and teachers exchange. Furthermore, the project aims to encourage young scientists, especially women.

**Measure 1: 2015**

<table>
<thead>
<tr>
<th>Period</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>February</td>
<td>Kick-off Meeting</td>
<td>Rabat, Morocco</td>
</tr>
<tr>
<td>March</td>
<td>Students Exchange</td>
<td>Mansura, Egypt</td>
</tr>
<tr>
<td>March</td>
<td>International Conference</td>
<td>Alexandria, Egypt</td>
</tr>
<tr>
<td>September</td>
<td>International Conference</td>
<td>Magdeburg, Germany</td>
</tr>
<tr>
<td>September</td>
<td>Students Exchange</td>
<td>Magdeburg, Germany</td>
</tr>
<tr>
<td>October</td>
<td>Workshop &quot;Game Analysis&quot;</td>
<td>Cairo, Egypt</td>
</tr>
<tr>
<td>November</td>
<td>International workshop</td>
<td>Aswan, Egypt</td>
</tr>
</tbody>
</table>

**Measure 2: 2016**

<table>
<thead>
<tr>
<th>Period</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>March</td>
<td>Students Exchange in Assiut University</td>
<td>Assiut, Egypt</td>
</tr>
<tr>
<td>April</td>
<td>Workshop &quot;Advanced Statistical Analysis in Sport Science&quot;</td>
<td>Amman, Jordan</td>
</tr>
<tr>
<td>May</td>
<td>Staff Exchange &quot;Study program -Sports Engineering&quot;</td>
<td>Magdeburg, Germany</td>
</tr>
<tr>
<td>October</td>
<td>Students Exchange in Magdeburg University- IMPAS</td>
<td>Magdeburg, Germany</td>
</tr>
<tr>
<td>November</td>
<td>International Conference &quot;Sports as a Lifestyle&quot;</td>
<td>Sharm El Shaikh, Egypt</td>
</tr>
</tbody>
</table>

**Measure 3: 2017**

<table>
<thead>
<tr>
<th>Period</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>March</td>
<td>Students Exchange in Assiut University, Egypt</td>
<td>Assiut, Egypt</td>
</tr>
<tr>
<td>April</td>
<td>Workshop &quot;Inspiring Advances in Sport Technology&quot;</td>
<td>Assiut, Egypt</td>
</tr>
<tr>
<td>May</td>
<td>Staff Exchange &quot;Study program -Sports Engineering&quot;</td>
<td>Magdeburg, Germany</td>
</tr>
<tr>
<td>July</td>
<td>International Workshop &quot;Sports Tourism&quot;</td>
<td>Magdeburg, Germany</td>
</tr>
<tr>
<td>October</td>
<td>Students Exchange in Magdeburg University- IMPAS</td>
<td>Magdeburg, Germany</td>
</tr>
<tr>
<td>November</td>
<td>International Conference &quot;Sports as a Lifestyle&quot;</td>
<td>Dead Sea, Jordan</td>
</tr>
<tr>
<td>December</td>
<td>International Conference &quot; Sport Science&quot;</td>
<td>Marsa Egypt</td>
</tr>
</tbody>
</table>
Higher Education Cooperation Maghreb, funded by the DAAD

Project Overview

- Sustain and spread out the computational engineering and energy sciences competences at the ENIG.
- Improve the quality of the master and doctoral degrees in their energy engineering study.
- Improve the quality of teaching and training of the recently accredited Master of the Mechanical engineering study by energy sciences and computational engineering skills.

Facts

- 5 Final year graduating students are in the period of April, May and June (2018) at the University of Darmstadt to visit lectures, perform diploma works and participate on workshops.
- 5 PhD students should participate on conference in Darmstadt and attend lectures for one month (November 2016).
- A conference for PhD students should be organized in April (see figures) on the topic of energy and environments.
- 170 CPU Cluster (as far as we know, it is one of the most powerful cluster in Tunisia) is installed and is operating at the ENIG. Master and PhD students are running heavy Computational Simulations for study and research.
- 10 PhDs and Master students have visited the University of Darmstadt for many months to attend lectures and perform diploma works (2015) in joined supervision.

Measures

1. Project activities, workshops, seminars and team activities during this School program.
2. Installation components, will be developed and suitable software products will be completely integrated and used at ENIG.
4. Experimental equipments for engineering education, especially for energy conversion and heat transfer.
5. A computer lab and the new structures which have to be improved on parallel computing.

Objectives

- Spread out the computational combustion competences in Tunisian Universities.
- The co-teaching and co-supervision of Master and PhD (student mobility program).
- Promote and support a PhD formation in energy sciences and related fields within the doctoral formation.
- Ensure the perpetuation of the partnership through joint-projects.
- Consolidate the early achievements within the doctoral formation cycle (école doctorale) by means of a well oriented mobility program.

Partners

2. École Nationale d’Ingénieurs de Gabès (ENIG), Université de Gabès.
3. Faculté des Sciences, Université de Gafsa

Challenges

- Efforts to mature the understanding of numerical computation sciences and the changing shape of the energy challenges and strategies worldwide and to build up scientific and engineering ability to address them at ENIG.
- Address actual energy engineering challenges that shall promote and enhance the employability of tomorrow’s Tunisian engineers.

Contact: Moudi Chrigui, École Nationale d’Ingénieurs de Gabès, Université de Gabès. moudi.chrigui@enig.mu.tn
Transformation Partnership Project

**EMerging Pollutants in Water and wastewater in Tunisia**

**EM-PO-W-ER Tunisia**

**INRGREF, Tunis**

**TU Braunschweig**

**ISA CM, Sousse**

**Project Overview**

- Monitoring the current situation on emerging pollutants in water and wastewater that are used for irrigation in Tunisian agriculture.
- Supporting the transformation process in Tunisia towards Good University Governance.

**Facts & Figures**

- **Duration:** 2011 - 2014
- **Budget:** 386,000 €
- **Funding:** DAAD

**Partners**

- Institute of Environmental and Sustainable Chemistry, TU Braunschweig, Germany
- National Research Institute for Rural Engineering, Water, and Forestry INRGREF, Tunis, Tunisia
- Higher Institute of Agronomy Chat Meriem ISA CM University of Sousse, Tunisia

**Objectives**

- Improving the state of knowledge on emerging pollutants in water resources in Tunisia,
- Developing sustainable solutions for problems of irrigation water pollution,
- Capacity Building for students, young researchers, and teachers,
- Implementing the rules of Good University Governance.

**How to reach the objectives?**

**Preparation**

- Building Professional Management Structures for Coordination of Research at INRGREF and at the University of Sousse ISA CM.
- Identification and involvement of stakeholders and linking R&D.
- Identification of scientific research demands and gaps of skills.

**Measure 1**

- **2012**: Collection and analysis of available data in and comparison with neighboring countries (Arab and Euro-Mediterranean).
- **2013**: Capacity Building through education, lab trainings, first field analysis and meeting with peer-groups in Tunisia and Germany.

**Measure 2**

- **2014**: Performing field sampling and laboratory analysis on selected experimental sites.
- **2014**: Dissemination of outcomes to Stakeholders & Decision Makers.

**Chances**

- Setting the bridges between research institutions in Arab and Euro-Med Countries.
- Producing skilled people: young researchers, teachers, students, technicians, and others.

**Challenges**

- Mitigating the pollution of irrigation water with emerging pollutants.
- Implementing the rules of Good Governance.

**Contact:** Prof. Dr. Müft Bahadir, TU Braunschweig, Hagenring 30, 38106 Braunschweig, m.bahadir@tu-bs.de
Transformation Partnership

German-Arab Graduate School

University De SOUSSE-Faculté de droit et des sciences politiques de Sousse.

University of Hamburg- Institut Law and ECONOMICS

Project Overview

Projet de mobilité Etudiants de maîtrise et de doctorat et enseignants en droit et sciences politiques

Facts & Figures

Duration of the project 2014-2015-2016
Funding DAAD

Partners

Cooperation partners
Université de Hambourg
Institut Law and Economics de Hamburg
Faculté des sciences économiques du Caire (Egypte)

Objectives

Target group:
- Etudiants du maîtrise: Renforcement méthodologique et linguistique.
- Doctorants: Renforcement méthodologique et linguistique+Initiation à l'AED+Avancement et achievement des travaux de recherche (thèse).

-- Enseignants: sensibilisation à l'intérêt de l'AED+renforcement linguistique.

--

How to reach the objective

Preparation

Contact de L'ILE avec la FDSPS.
Réunion pour établir l'objet de la coopération et le programme pédagogique.

Measure 1

Summer school and winter school- Aout 2014
Hambourg/Decembre 2014 Sousse/ Aout 2015
Hambourg/ Octobre 2015 le Caire

Measure 2

-Mobilité Etudiants /Hambourg 4etud
x3moisx3ans.
-Mobilité enseignants- 4 ensx1mois

Chances

- Nouvelle disciplines/nouvelle approche du droit/ nouvelle méthodes d'enseignement/ renforcement linguistique (Allemand-Anglais)
- Nouvelles thématiques de recherche (sujet de thèse)

Challenges

Maitrise de la langue
Réalisation des travaux en plusieurs langues (anglais/français/arabe)
Acquisition de la méthodologie et des concepts propres à l'économie.

Contact: Iarchouna Lotfi. Faculté de droit et des sciences politiques de Sousse. +216 07523998.
Transformation Partnership
Research Training Group for Intelligent Embedded Sensor Solutions
Technische Universität Chemnitz
National Engineering School of Sfax

Project Overview
Research Training Group aims to establish multidisciplinary university partnerships between Tunisian and German Universities and to promote the mobility of scientists. The exchange of the experience promotes innovation by a continuous improvement of education, support of applied research, encouragement of young people for entrepreneurship and improvement of employability in both universities and industrial environment.

Facts & Figures
Duration of the project: 2 years
Funding: approx 200 000 Euro

Partners
National Engineering School of Sfax
Technische Universität Chemnitz

Objectives
- Support applied research
- Encourage young people for entrepreneurship
- Improve employability
- Reinforcement of joint international master degree program "Embedded Systems"

How to reach the objectives?
Preparation
Exchange of scientists for short research stays in the two universities during two years

Chances
- Exchange of 17 master students, 26 PhD students, 8 postdoctoral and 8 professors and providing necessary equipments and the infrastructure for their research and practical investigations

Challenges
- Promotion of entrepreneurship by training the trainers
- Module Development for master "Embedded Systems"

Contacts:
Prof. Nabil Derbel, ENIS, n.derbel@enis.mn.tn
Prof. Olfa Kanoun, TU Chemnitz, olfa.kanoun@etit.tu-chemnitz.de
German-Arab Transformation Program:
Research Partnerships - Al Tawasul
Aeolian Dynamics in Southern Tunisia
Monitoring the Present-Reconstructing the Past

Project Overview
Desert margins in northern Africa are suitable for investigating environmental changes. Fluctuation of this climatologically boundary makes this region an area of high environmental sensitivity inducing severe environmental changes. Nowadays, we observe dust bowls and dust loaded winds coming from Saharan air layers that affected our study area and may cause severe health problems for concerned people. Therefore modern science centers are controlling saharian dust winds by satellite images and simulation models.

Facts & Figures
- 1 DAAD Alumni
- ERSG in Gafsa and Sfax
- 1 HDR; 8 PhD; 5 PFE

Partners
TU-Dresden, University of Gafsa, University of Sfax

Objectives
• Identify the sources of loess
• Contextualize findings of the Malmaia and Touchen Loesses
• Monitor dust loaded winds over Northern Africa in terms of dust sources, dust trajectories and dust deposition areas.
• Develop dust models in order to produce realistic patterns of dust distribution using remote sensing techniques

How to reach the objectives?
Preparation
Monitoring the dust using Remote Sensing Data.

Measure 1
Establishing a conceptual model for the reconstruction and monitoring of environmental changes throughout Eolian dynamics. Such a model can then be used as a reference for future research in comparable science fields.

Measure 2
Providing a standard and reliable method to identify loess sources. Results from this work in southern Tunisia will be correlated with outcomes of other research project on archives reconstruction in several spot on earth (southern Spain, Armenia, Canary islands) conducted at the physical geography department at the TU-Dresden in Germany.

Chances
The experience of Professor Faust in the field of physical geography and landscape development, and their previous experience in southern Tunisia will assure the correct approach in tackling the objectives of our research project.

Challenges
Explore the potential and limits of several remote sensing data.
Support young researchers to master the new advanced remote sensing techniques.

Contact: Dr. Moncef Bouaziz, moncef.bouaziz@gmail.com
Transformation Partnership

Bacterial and fungal pathogens and endosymbionts of olive pests: innovative biotechnology and capacity building for the development of bioinsecticides from and for Tunisia.

Hochschule Geisenheim University

Olive Tree Institute

Project Overview

Idea of Project: Development of microbial bio-insecticides as substitutes of chemo-insecticides. The approach uses modern biotechnological methods in order to identify bacterial and fungal pathogens and endosymbionts associated with the 3 most economically important olive pests in Tunisia (olive fly, olive moth and psylla) and to convert them into bio-insecticides.

Facts & Figures

Duration: From 01/01/2015 to 31/12/2017.

Objectives

Target groups: Organic Farmers, Organic industry, Students (workshops), olive oil consumers.

Partners

*Dr. Andreas Leclerque (University of Geisenheim): German Coordinator
*Dr. Ines Ksentini (Olive Tree Institute): IO: Tunisian Coordinator
*Dr. Christina Schuster: Post-Doctoral Scientist (German side)
*Mrs. Maryam Sahnoun: PhD Student.
*Dr. Khemais Abdellaoui (ESA Chott-Mariem): histological studies of olive pest endosymbionts.
*Dr. Hichem Azzouz (CBS): bio-insecticide formulation developments.
*Dr. Sameh Maktouf (Olive Tree Institute): Determination of active substances.
Pr. Najiba Zeghal (FSS): Impact of isolated microorganisms on mammals.

How to reach the objectives?

Preparation

Isolation and Molecular identification of pathogens associated with olive pests (First year, Tunisia and Germany)
Bioprospection of main olive pest and metagenomic DNA extraction (6 months in the Second year, Tunisia)
Pyrosequencing – bioinformatics: microbiome component identification (6 months in the second year, Germany)

Measure 1

Virulence bioassay against olive tree pests (9 months between the first and the Second year, Tunisia).
Non-pathogenicity for olive trees, mammals and beneficial insects (9 months between the first and the Second year, Tunisia).

Measure 2

Development of Diagnostic tools for entomopathogen detection (Third year, Germany).
Effects of insect-pathogens on olive oil quality (9 months in the third year, Tunisia).
Development of biocontrol agent formulations (9 months in the third year, Tunisia).

Chances

Good relationships between the Project members and partners

Challenges

Difficulty to respect project time table and work schedule because of problems of purchasing devices and consumables, problems of recruitment of personals, differences between Tunisian and German legislations.

Contact:
Dr. Andreas Leclerque, Geisenheim University, Von-Lade-Straße 1, D-65386 Geisenheim. e-mail: Andreas.Leclerque@hs-mm.de
Dr. Ines Ksentini, Olive Tree Institute, Airport road 1.5 km, BP 1087, 3000 Sfax. E-mail: Ksentini.ines@resa.agrinet.tn
Transformation partnership (Line 4: German-Arab Research Partnership - Al Tawasul)

Proteomics and Halophyte Stress Tolerance

Project Overview

Idea of the project
- Unlike conventional crops, halophytes (frequent in Tunisia) are plants that survive and are able to reproduce in saline environments.
- The local halophyte Cakile maritima shows environmental (sandy dune fixation, heavy-metal phytoextraction), economical (oilseed, source of bioactive molecules), and fundamental (source of salt-tolerance traits) interests.
- In the context of halophyte valorization, our project aims at the identification of molecular markers related to salt tolerance of this species using the proteomic approach.

Facts & Figures
- Duration of the project: 02 years (starting from 2016)
- Funding: 90.000 Euros / year

How to reach the objectives?

Preparation
- Project contains 05 work packages with objectives for each year and milestones to evaluate the work progress. To achieve these goals:
  (i) Regular meetings to discuss all aspects (administrative, scientific, financial) and to assess the project progression,
  (ii) Training and mobility for Tunisian young students and researchers at the German partner,
  (iii) One workshop in Tunisia per year
  (iv) Know-how transfer along with acquisition of modern equipments related to proteomics,

Partners
Participating institutions and Cooperation partners:
- Germany: Leibniz University of Hannover
  Partner 1: Prof. Dr. Hans-Peter Braun (Inst. of Plant Genetics, Plant Proteomics Dept.)
  Partner 2: Dr. Ahmed Debez (Laboratory of Extremophile Plants, LPE)
- Tunisia: Center of Biotechnology of Borj-Cedria, CBBC

Objectives
Objectives:
- To bring together complementary expertises of both partners in order to diversify the tools used to characterize plant salt response,
- To build a research group at the CBBC with strong expertise in Proteomics, and
- To improve the positioning of both partners in international research networks focusing on the elucidation of salt-tolerance mechanisms.

Target groups:
Post-graduate students, young postdocs

Chances
Excellent expertise of the German partner in the proteomics field (beneficial for the Tunisian students), partner complementarity in term of expertise, budget availability and flexibility.

Challenges
Strengthening bilateral cooperation together with improving skills of Tunisian students/scholars are our main challenges.

Contact: Prof. Dr. Hans-Peter Braun & Dr. Ahmed Debez. Website: http://www.genetik.uni-hannover.de/braun.html
Interkulturelle Linguistik Deutsch-Arabisch: Differenz und Übersetzung

Fakten
Partnerland
Tunisien
Fachbereich
Germanistik
Hochschule Deutschland
Technische Universität DRESDEN
Projektverantwortlich
Prof. Dr. Walter Schmitz
Hochschule im Partnerland
ISLAI BEJA (Universität Jandouba)
Projektverantwortlich
Dr. Lamia Mrad

Projektporat
Das spezifische fachliche Projektziel besteht in der Entwicklung eines forschungsleitenden Konzeptes im Bereich der interkulturellen Semantik zur Analyse von mittelgroßen Korpora im deutsch-arabischen Vergleich.

Inhalt des Projekts
Die Forschungsschwerpunkte:
1. Deutsch-arabische Schlüsselwörter
2. Fachterminologie in interkultureller Differenz
3. Arabisch-deutsche Literatur der Migranten – Stereotypen und Strategien im interkulturellen Vergleich
4. Arabische Subtexte in deutschspracher Literatur – Sprachlatenz bei Rafik Schami

Maßnahmen zu Erreichung der Projektziele:
- Workshops und Diskussionen
- Seminare zu Forschungsmethoden, insb. im Bereich Korpus-Erstellung u. Beschreibung
- Errichtung einer interaktiven Website
- Forschungsauenthalte in Dresden
- Symposium in Beja (April 2015)
- Tagung in Beja (April 2016)
- Ausarbeitung der ersten Publikationen in jedem TP
- Veröffentlichung eines Sammelbandes Ende 2016

Zielgruppe
Nachwuchswissenschaftler (MA, PhD, Post-Doc) im Fach Germanistik in Tunisiens.

Kernziele des Projekts
Die übergeordneten Projektziele bestehen darin:
- die tunesischen NachwuchswissenschaftlerInnen zu einer eigenständigen Forschung im Feld „Semantik“ zu befähigen.
- die für Auslandsgermanistik signifikante interkulturelle Kompetenz zu nutzen
- die Isolation zwischen den germanistischen Teilfächern Sprach- und Literaturwissenschaft im Sinne einer „kulturwissenschaftlichen Linguistik“ zu überwinden.
The Maghreb in Transition

Facts

Country
Morocco & Tunisia

Cooperation between
Faculty of Letters and Human Sciences, University of Sousse, Tunisia
Institute for Near and Middle Eastern Studies at the Ludwigs-Maximilians-University of Munich

Project duration
2016-2017

Project Responsibility
Amir Hamid, MA
Prof. Dr. Andreas Kaplony
Dr. Ramzi Ben Amara

Project objectives
- Structure
  Formation/Infrastructure
- Establishing an interdisciplinary oriented research platform
- Strengthen South-South Cooperation
- Academic Training
  Promoting young researchers from Morocco, Germany and Tunisia
- Research
  Conducting research on the impact of media in stabilizing and transforming power relations

Project Description

The project aims at setting up an interdisciplinary research group of young academics coming from Tunisia, Morocco and Germany. It provides them a platform for collaborative research and further academic training, with the particular intent to explore the subject of media and power relations. The research group is preliminary clustered into three thematic research units: the first unit explores the role of media in the consolidation and shift of power relations between socio-economic and political centers and their peripheries. The second unit inquires media as means of power and empowerment in the field of gender and gender relations. The third unit explores the overlapping subject of media’s role and their strategic engagement by actors in the field of religion and secularism.

Partners

Université Sidi Mohamed Ben Abdellah – Marokko;
Université Mohammed V – Marokko;
Institut Supérieur de l’Information et de la Communication (ISIC) – Marokko;
Université Carthage – Tunesien;
Université La Manouba – Tunesien;

Target group

Young scholars with different disciplinary backgrounds from Germany, Morocco and Tunisia participate in the activities throughout the project process. Moreover, the project aims at linking universities, and different research institutions.

Measures 2016

- Identification of project participants and potential scholars who can contribute to the project
- Realisation of a preparatory workshop at the University of Munich April 2016
- Two research workshops in Rabat and Tunis
- An international conference in October 2016

Contact

Project Coordinators
Dr. Ramzi Ben Amara
(ramzibenamara@gmail.com)
Amir Hamid, M.A.
(amir.hamid@lmu.de)
### Research Training Network Novel Cytotoxic Drugs from Extremophilic Actinomycetes

The project aims at the establishment of a Research Training Network between Tunisia, Egypt, and Germany devoted to Natural Product Chemistry. Cytotoxic compounds from extremophilic Actinomycetes will be in the focus of the research activities. The training programme focuses on different aspects of natural product research, e.g., microbiology, molecular biology, organic chemistry, medicinal chemistry, biochemistry, and novel technologies in analytical and biophysical chemistry. Multidisciplinary approaches will be employed to explore the yet undiscovered wealth of natural products, isolate them, elucidate their chemical structures with modern spectroscopic methods and to identify and validate molecular targets for innovative treatment.

<table>
<thead>
<tr>
<th>Partners</th>
<th>Objectives</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>German Partner:</strong> Prof. Dr. Norbert SEWALD, Bielefeld University&lt;br&gt;<strong>Tunisian Partner:</strong> Dr. Imène ZENDAH EL EUCH, FST, Laboratoire LMBA. Université Tunis El Manar.&lt;br&gt;<strong>Egyptian Partner:</strong> Prof. Mohamed Attia SHAABAN MAHMOUD, National Research Centre, Pharmaceutical Industries Division, Dokki-Giza, Cairo, Egypt.</td>
<td><strong>The intensive exchange of personnel, materials, and ideas between the partners of the Research Training Network will strengthen the transnational interdisciplinary collaboration in research, development, and training.</strong></td>
</tr>
</tbody>
</table>

### Preparation

Concerning the methodology, the three partners will isolate a sufficient number of extremophilic actinomycetes from different Egyptian and Tunisian habitats. The selected strains will be cultivated and taxonomically characterized. Newly identified strains will be cultivated on a larger scale and the entire fermentation broth will be extracted by organic solvents. The resulting crude extracts will be applied for further investigations as shown in **Measure 1 and 2.**

### Measure 1

Extracts from microorganisms were screened using chemical, physical and spectroscopic techniques (the so-called chemical screening) and various bioassays tests against several pathogenic microorganisms. Besides cytotoxicity assays, other screenings e.g., for antimalarial activity will be performed.

### Measure 2

The promising metabolites were extracted, isolated and purified using normal phase (silica gel and sephadex) and HPLC chromatography. The structure elucidation of secondary metabolites will be carried out by a combination of spectroscopic techniques (UV, IR, NMR, MS) and chemical conversions.

### Chances

The aim of this research project is actually to open more than one point in the field of drug discovery to overcome the recently discovered diseases and hence this will open numerous chances of employability for young researchers and persons during an international collaborations.

### Challenges

The end lead bioactives compounds of the project, which basically are dependent on the discovery of novel antiviral and anticancer drugs, will be subjected to further studies in the industrial and clinical trials.

### Contact:

Prof. Dr. Norbert SEWALD (norbert.sewald@uni-bielefeld.de), Dr. Imène ZENDAH EL EUCH (imene.zendah@gmail.com), Prof. Mohamed Attia SHAABAN MAHMOUD (mshaaba_99@yahoo.com )

Bielefeld University, Department of Chemistry, PO Box 10 01 31, D-33501 Bielefeld, Germany
Responsibility, Justice and Culture of remembrance

Project Overview
Responsibility, Justice and Culture of remembrance is a German-Tunisian research project. It aims at critical thinking from different perspectives about experiences of injustice in (Arab) countries with authoritarian regimes and an analysis of their treatment in matters of Human Rights (Transitional Justice, Reconciliation Policy ...)

Preparation
Duration of the project: 3 years, from 2013 to 2015

Partners
University of Manouba (FLAH)
University Gabor of (ISSH Mednine)
University of Kassel (Institute for Philosophy)

Objectives
Target Group: advanced students and young researchers (PhD and postdoctoral students) mainly in fields of Philosophy, German literature and linguistics and political Science
- Infrastructure
- Academic Training
- Research

Measure 1
- Infrastructure: library in FLAH Manouba und ISSH Mednine since 2013 (approximately 500 books)
- Doctoral colloquia
- Seminars in Tunis und Medenine (Literature, Philosophy and teaching methods)

Measure 2
Research Methodology:
- How to write a doctoral thesis
- Required scientific standards a
- Preparation of the publication of the research results in three volumes

Chances
- Bridge to the international scientific community
- Interdisciplinary international setting
- Multiplacator effect

Challenges
- Project management
- Interdisciplinarity
- Development of sustainable structures

Contact: Dr. Moez Maataoui FLAH La Manouba, Website, http://www.uni-kassel.de/fb02/institute/philosophie/projekte/verantwortung-gerechtigkeit-unternehmenskultur.html
DAAD Transformation Partnership

Theralytics: Smart E-Health Services for Treating Patients in Tunisia

Philippus-Universität Marburg  
Digital Research Center of Sfax

Project Overview
The idea of the project is to develop an e-health solution that supports the treatment of chronic diseases like diabetes, cardiovascular disease and asthma. It allows us to collect data via a set of sensors, analyze incoming sensor data together with data extracted from additional sources in the WWW and automatically propose a treatment plan. A medical expert validates the treatment plan and executes it.

Facts & Figures
- Duration of the project: 01/2016-12/2017
- Funding: staff, publications, workshops, e-health sensors

Partners
- Philippus-Universität Marburg
- Digital Research Center of Sfax
- ISSAT, University of Sousse

Objectives
- A health monitoring system
- A medical record approach
- Extract relevant health knowledge and transform it into semantic analysis rules
- Generate e-health CEP queries to detect and predict health anomalies
- Generate an adequate treatment plan
- Evaluate our e-health system via use cases from the university hospitals of Sfax
- Organize training sessions for doctors and patients to demonstrate our e-health system

How to reach the objectives?

Preparation
- 3 Bachelor / Master students per year (Tunisia)
- 3 PhD students per year (Tunisia)
- 1 PhD student per year (Germany)

Measure 1
- Regular meetings with medical professionals in Tunisia
- Regular Skype conferences between the German and the Tunisian teams

Measure 2
2 workshops per year:
- One in Tunisia
- One in Germany

Chances
- Joint PhD topics
- New academic structure formation: e-health
- Startup ideas

Challenges
- Extract medical knowledge
- Evaluate our e-health solution
- Build a collaborative healthcare platform in Tunisia

Contact: Dr. Aref Mdhaaffar, E-mail: aref.mdhaaffar@gmail.com
Higher Education Cooperation Maghreb, funded by the DAAD

Transformation Partnership
Transformation-Culture-Gender

Project Overview
• The project addresses young academics from Tunisia and Germany working in the fields of humanities as well as cultural and social sciences, therefore it provides a platform for collaborative research and further academic training, with the particular intent to explore the complex connections between processes of transformation, gender, and cultural practices.

Facts & Figures
• Duration of the project: 2016-2017
• Area of Research: Humanities, cultural and social sciences: Philosophy, German, Arabic and French Language and Literature, Social anthropology, Political science, Media and Film Studies...

Objectives
• Establishment of an interdisciplinary and intercultural research group that reunites young academics from Tunisia and Germany working on the subject Transformation, Culture, Gender
• Publication of the results of research
• Modernization of the higher education and teaching in Tunisia
• Improving the endowment of the libraries in the ISSH Medenine and at the FLAH Manoubia in Tunis.

Partners
• University of Lüneburg: Faculty of Humanities and social sciences
• University of Manoubia: Faculty of Letters, Arts and Humanities (FLAH)
• University of Gabès: Higher Institute of Humanities of Medenine (ISSHM)

How to reach the objectives?

Preparation
Selection of the project team members (Tunisia and Germany January-February 2018)

Measure 1
• Seminar in Tunis about the theories of Gender Studies (May 2016)
• Workshop in Lüneburg (Julay 2016)
• Meeting in Tunis (November 2016)

Measure 2
• Purchase of books about the basics of Gender Studies in language, literature, philosophy....
• Organisation of research stays in Germany for five young academics from Tunisia

Chances
- Support for early stage researchers
- Introducing an underrepresented subject into Tunisian academia
- Intercultural discussions allow both, German and Tunisia members, to learn from each other

Contact: FLAH de La Manoubia, Moez Maataoui moezmaataoui@yahoo.de / ISSH Medenine, Ina Khiari-Loch ikhiari.loch@yahoo.de

Challenges
- Treating the prejudices against the implications of the subject
- Sensitizing the Tunisian academia for this subject
- Challenges of working within interdisciplinary teams
Higher Education Dialogue
with the Muslim World
Higher Education Cooperation Maghreb, funded by the DAAD

Project Overview

Project Title: Building a network of universities and developing a new Master program “Information Technology”

Project Portraits:
The two project partners, Technische Universität Braunschweig (TUBS) and University Tunis El Manar (UTM), are organizing workshops and summer schools annually for developing the master program “Information Technology”. These events focus on screening existing programs, planning contents, and implementing short courses and student projects.

Idea of the Project (Main Objectives):
- Building a network of Universities (UNIV) from Germany and Tunisia, that cooperate in teaching and research
- Establishing a Master program in “Information Technology” at an international level taught in English
- Support qualification of students and teachers in young universities, especially in Tunisia
- Introducing the concept of teaching theory and convey practical skills
- Building a network of universities and teachers in Tunisia and between Germany and Tunisia

Duration and Funding

Duration of the project: 2013-2015
Funding: DAAD—Dialogue with Islamic Countries
3rd Funding Year

Preparation
- MOU
- Workshops
- Internal Meetings
- Summer school

Step 1
- MOU TUBS
- Necessary to facilitate exchange between the two universities
- MOU with TU Dresden in Preparation

Partners
Participating Institutions
- Universities from Germany and Tunisia
- Other partners: associations, industry, researchers, others

Step 2
- Workshops
  - Hammamet, June 2013, 3 days
  - Braunschweig, December 2013, one week
  - Hammamet, March 2014, 3 days
  - Braunschweig, December 2014, 4 days
  - Hammamet, May 2015, 5 days
- Workshops Goals: Elaborating teaching modules, design of degree programs, candidate selection, network expansion

Step 3
- Contact to Partners
- Universities, Associations, Industries, Institutions, Ministries, etc.

Step 4
- Network Meetings in Tunisia:
  - 10 in 2013, 10 in 2014, 10 (planned) in 2015
- Content:
  - Discussion of the the Master program
  - Prepare events
  - Compilation where necessary
  - Discuss further Network expansion

Step 5
- Summer schools
  - One in June 2014 at the ENIT
  - Test of modules,
  - Second reading approval application
  - One in 2015 (planned for September 2015) in Braunschweig: initiation of the Master program

Challenges
- Course definition and Master program
- Getting a “team” that works together in a productive and homogeneous way
- Get the cooperating professors (especially between Tunisia and Germany)
- Rational manage of available budget
- Some leadership qualities required
- Keep people interested over a long period
- Improve the sense of the responsibility
- Extend the UNIV to other partners
- Seek for valuable ideas and programs in order to start good masters and cooperation projects

Chances
- Successful events (workshops, meetings, summer schools)
- First summer school was a highly successful event (about 160 participants from all over Tunisia)
- Network is growing. All Tunisian universities are represented by at least one member
- Big interest among Tunisian students and professors. German Professors agreed to cooperate. German students participated to the Summer School in June 2014
- Master program details defined. All modules already defined and some pairs of professors are identified, who agreed to give parallel courses.
- Master study in habilitation process at the Tunisian Ministry (MESRS)
- Workshop in Tunis in May 2015 will launch the selection process. Summer school in Braunschweig in September 2015 as kick-off of the Master program

Contact
- Prof. Nadir Asri, ENIT, B.P. 97, 1002 TUNIS BELVÉDÈRE, TUNISIA
- Phone: +216 21686778, V.O.I.P.: +216 71177760, Fax: +216 71177760
- E-mail: nadir.asri@enit.tn, Website: www.enit.tn, ENIT-MAGH

Excellent success chances
Transformation Partnership:
Fostering the Entrepreneurial Spirit for Academic Innovations in Information Technology (2012-2015)

Marburg | Darmstadt | Cairo | Sfax | Rabat

Project Overview
This project is aimed at promoting a “start-up culture” in the participating Arab universities and stimulating the “entrepreneurial spirit” of Arab graduates (and especially women) in information technology. The project provides seminars on entrepreneurship and conferences on new IT trends. Furthermore, a yearly German-Arab start-up competition is held and training and coaching are provided to candidates with the best ideas.

Objectives
- Integrate topics related to entrepreneurship into education programs
- Establish a German-Arab cooperation network on entrepreneurship
- Support the partners in transferring research results into practice
- Promote the mobility between the members of the partner institutions
- Promote and coach Arab women on their way to establish start-ups

Partners
- Marburg University, Germany
- Darmstadt University, Germany
- German University Cairo, Egypt
- University of Sfax, Tunisia
- Mohamed V University, Morocco

Providing knowledge
Integration of entrepreneurship in local curricula and organization of seminars on entrepreneurship topics in Tunisia and Egypt.

Developing start-up Ideas
Yearly startup competition in IT published at all partner institutions and evaluation through an international jury.

Coaching start-ups
Local coaching activities and trainings in Germany for the best start-up ideas. Special support for women on the start-up path.

Chances
- Enable universities to make significant contributions to social development
- Enhancing the attractiveness of innovation in the Arab region

Challenges
- Collaboration with external institutions is often difficult
- Changing the mentality and culture, since IT industry is dominated by men

Contact: Prof. Dr. Mohamed Jmaiel. Email: mohamed.jmaiel@enis.mn.tn
Project Overview

Encouraged and financially supported by the DAAD’s program call, in late 2005, scientists from the above named institutions undertook the endeavor to revive university collaborations dating back three decades. Under the overarching theme:

"Anwendungsorientierte Wissenschaft im deutsch-arabischen Dialog"

– Reviving the Algerian-Thuringian University Collaboration –

Duration

4 Years

Partners

Algerian Partner: Université Ferhat Abbas Sétif 1

German Partner: Technische Universität Ilmenau

Objectives

- Education
- Research
- Exchange

HISTORICAL BACKGROUND

The universities of Sétif and Ilmenau look back on a history of more than 36 years of intercultural cooperation in the fields of technology teaching and research, starting with an academic exchange program that was conducted in the early eighties. Back then, thirty scientists from Ilmenau and Jena worked for three years in Sétif. They helped to establish the "Institut d’Optique et Mécanique de Précision", which developed with time into internationally visible, highly respected research institutions.

Unfortunately, these collaborations withered away during the eighties and nineties, which brought considerable political changes.

REALIZED PROJECTS

- Winter School "Optronics as emerging key technology for the 21st century", Nov. 27th-Dec. 6th, 2006, Sétif
- Participation of 10 Algerian Students at ISWI (International Student Week in Ilmenau), June 1st-10th, 2007
- 1st Algerian-German International Conference on New Technologies and their Impact on Society, May 4-7, 2008, Sétif, Algeria
- Three 1-month-research internships for Algerian Ph.D. students and several short-term visits of Algerian scientists Ilmenau, 2009
- Study "German-Algerian University Exchange from the Perspective of Students and Teachers: Results of an Intercultural Survey", published in the J.Studies International Education, 2010
- Curricula development and coordinated start of study programs "MSc Photovoltaics"

SOCIOCultural STUDY: GERMAN-ALGERIAN UNIVERSITY EXCHANGE

Parallel to the winter school, a mixed Algerian-German group of experts in communication science, sociology, media science and psychology analyzed the results of on-line questionnaires and interviews with students and professors from both countries. It proved to be particularly helpful, that the study group included students, because these communicated more open and in a more direct manner than the older scholars. Starting from the knowledge and prejudices about each others’ countries, religions and universities, the questionnaires continued to explore expectations and hopes for future university collaborations. During the stay in Algeria, the young German participants kept diaries about what they thought remarkable. In the following year during ISWI, young Algerians collected what they found noteworthy about Germany.

TECHNOLOGICAL: OPTRONICS

Based on the long-standing and successful cooperation between the two universities, on the very good technical-theoretical level of education of the UFAS students as well as the state-of-the-art technological infrastructure at the TUII, the following aims are to be pursued: Providing the most modern practical and experimental knowledge in the fields of photonics, microoptics and photovoltaics by using the modern technological infrastructure at the TU Ilmenau in various technical faculties.

Project impacts

During the first year of revived Algerian-Thuringian university collaboration within this project, it became clear that the impact of new technologies on society is of uppermost importance and interest to both partners. Several conference attendees had participated in the early stages of the collaboration about thirty years ago. This added a highly welcome historical perspective to this otherwise future oriented scientific meeting.

Details on the scope and program can be found on the web site www.agcnt.org.

Contact: University of Sétif 1, IOMP, Maabouda Setif DZ 19000 Algeria, www.univ-setif.dz
Prof. Mohamed Bouafia, E-mail: bouafiamohamed@gmail.com
German Arab/Iranian Cultural Dialogue:
Service-Oriented Software Architectures in Distributed Systems (2009-2011)

Project Overview
This project aims at establishing a cooperation between the Tunisian and Moroccan institutions in research and teaching. On the one hand, the Tunisian and Moroccan partners will be supported by the German institutions to modernize Master- and PhD-programs for example by joint collaborations and supervision of Tunisian and Moroccan Master and PhD students. On the other hand, joint collaborations should be established with respect to the research topics around service-oriented systems.

Objectives
- Establish a German-Tunisian/Moroccan cooperation network in teaching and research focusing on Distributed Systems
- Improve the quality of Master and PhD programs by joint supervision
- Develop proposals to establish Co-dissertation model for PhDs
- Organize joint events (such as workshops and summer schools)
- Intensify student exchanges between the three partner countries

Partners
Marburg University, Germany
Darmstadt University, Germany
Sfax University, Tunisia
Mohamed V University, Morocco

Measure 1: Teaching Collaboration
Joint Supervision of PhD and Master students
Establishing a Co-dissertation model
Exchange of Students between partners

Measure 2: Research Collaboration
Yearly Workshop for Master and PhD students
Yearly summer school on the project topics
Exchange of researchers between partners

Measure 3: Cultural Dialogue
Visits of cultural and scientific location
Discussion about cultural and scientific issues
Rich cultural program for exchanged students

Chances
- Contribute to the internationalization of Tunisian and Moroccan universities
- Promote cultural dialogue through joint research and teaching

Challenges
- Collaboration with new partners is often difficult at the beginning
- Avoiding cultural stereotypes by student and researcher exchange

Contact: Prof. Dr. Bernd Freisleben freisleb@informatik.uni-marburg.de
University-Business-Partnerships
DAAD "University-Business-Partnership Programme"

German-Tunisian Partnership in Textiles and Clothing

Hochschule Niederrhein
University of Monastir

Project Overview

The project is a collaborative partnership programme between German and Tunisian Universities and industrial companies working in the fields of textiles and clothing, in order to exchange knowledge, experiences and know-how and share best practices, everything supported by DAAD. This aims mainly to strengthen the practical skills of University graduates in order to meet the special requirements of industry.

Facts & Figures

Duration:
4 years: 2016 – 2019
DAAD direct funding:
~ 247,000 €
Partners indirect financial contribution

Partners

University partners
- Hochschule Niederrhein, Faculty of Textile & Clothing Technology in Mönchengladbach, Germany (HN)
- University of Monastir, National Engineering School of Monastir, Textile Department, Tunisia (ENIM)

Business partners
- Atelier GARDEUR GmbH, Germany and Tunisia
- Tunisian-German Chamber of Industry and Commerce "AHK-Tunis", Tunisia

Objectives

- More orientate ENIM’s study programmes in textiles and clothing to the labour market needs.
- Increase management and planning skills and entrepreneurial competencies of ENIM’s graduates.
- Develop cooperative academic programmes (Master and PhD) jointly with industrial partners.
- Establish functional networks between involved institutions and industry.

How to reach the objectives?

Preparation

- Establishing a cooperation agreement between the two Universities, preparing a project proposal and application for DAAD funding
  May-June 2015
- Meetings with involved partners during visits at HN, ENIM, Atelier Gardeur GmbH in Germany/Tunisia and further institutions/companies (DAAD’s Transformation Partnerships)
  November-december 2015

Activities in 2016

- Meeting at ENIM with partners from HN to prepare a planning of the activities
  January 2016
- Find out about situation at university and needs of industry (Discussion, survey and interviews within industry, graduates and alumni)
  March-November 2016
- Call for application for ENIM’s students to spend the winter semester 2016-2017 at HN, in Germany
  April-June 2016
- Graduation projects (final thesis) at GARDEUR Tunis (Gartex)
  2 students from HN/ENIM, February-September 2016
- Organizing a workshop in "Project management" for students at ENIM
  Prof. Harsch from HN, 15-20 students, 3 days
- Participating at IFKT congress/ME open spaces 2016 and meeting with partners from HN
  3 professors from ENIM, 6-11 June 2016
- Organizing a meeting with partners (workshop) to present first results of the project and discuss further proceeding
  End of 2016

Chances

- Meeting with partners to capitalize the potentials and discuss the risks.
- Exchange of academic staff at ENIM and HN.
- Exchange of students: semester abroad at ENIM/HN.
- Enable work experience in industry for students: internships, research projects, graduation projects.
- Excursions for students and academic staff to institutions/companies in Germany/Tunisia.
- Organize workshops in management and Corporate Social Responsibility (CSR).
- Conduct business games and cross-cultural seminars by students...

Contact:
Dr. Sofiene MOKHTAR, ENIM, Av. Ibn El Jazzar, 5019 Monastir.
www.enim.mu.tn
Higher Education Cooperation Maghreb, funded by the DAAD

Project Overview
Module studies, certificates and master’s programs offering profession-enhancing, career-integrated educational advancement opportunities in the field of simulation.

Preparation
Duration of the project

Partners
- University of Applied Science Ingolstadt,
- Ecole Nationale d’Ingenieurs de Sousse,
- CADFEM International GmbH
- CADFEM AN SARL

Objectives
- set-up a joint International master degree in the field of numerical Simulation
- set-up a life-long Training Platform that enables Graduates to gain extensive Knowledge in Simulation in compact form and in short time
- offering national and International exchange Network with professionals and experts in the field of simulation.

Measure 1
- Module combination and choice of the lecturers according to the market and industrial needs
- Offering of a double degree Master of Engineering (M.Eng)
- Some modules to be followed in Germany

Measure 2
- Offering 4 intensive Class-room Trainings in Simulation in Cooperation with 4 Tunisian Universities
- International Certification in ‘Numerical Simulation’

Chances
- Increasing the Employment of the new graduates
- Improvement of the Partnership between the academic and industrial institutions

Challenges
- Introduction of the life-long learning mindset for the Engineers
- Improve quality of Studies by establishing new partnerships
- Integration of the Simulation as fundamental Tool of the Innovation

Contacts:  Germany: Ingolstadt University of Applied Science, Department of Mathematics and Numerical Simulation, Esplanade 10, D-85049 Ingolstadt
Tel +49 (0) 841 / 9348-3021 Email: Jiri.Horak@thi.de

Tunisia: Ecole Nationale d’Ingenieurs de Sousse, Pôle technologique de Sousse, Route de Ceninture Sahloul, 4054, Sousse
Tel: +216 73 369 500 Email: zoubier.tourki@eniso.mn.tn
Impressum

Publisher:
DAAD Office Tunis
Immeuble KOOLI
14, rue du 18 janvier 1952
1000 Tunis
E-Mail: contact@daad.tn
Tel: +216 71 240 833
Fax: +216 71 240 831
Website: www.daad.tn
Facebook: DAAD Tunisie

Editor:
DAAD Office Tunis
Direction: Beate Schindler-Kovats
Assisted by: Jutta Nagel (kulturweit Freiwillige) and Chaima Naimi (associate at the DAAD Office Tunis)

Photo credits:
DAAD Office Tunis, Beate Schindler-Kovats

Publishing date:
July 2017