



## TEACHING AND LEARNING

### New Master's programme: take-off for MBA Aviation Management



Photo: Frankfurt AG

Frankfurt Airport: An aircraft is being prepared for take-off at one of the world's major hubs.

Fachhochschule Frankfurt is expanding its current international study programme starting in fall 2011 with the new Master's programme "MBA Aviation Management". The MBA study programme is designed for current and future executives with an international focus who wish to improve their career chances. Participants will have the opportunity to gain theoretical and practical knowledge for dealing with the challenges of a constantly changing work environment and for developing appropriate business strategies. The MBA programme consists of 15 different modules in three clusters. Module cluster 1 deals with international management and leadership, module cluster 2 relates to consultancy and project management, and module cluster 3 comprises essential strategic aviation know-how. International consultancy projects and the Master's thesis facilitate the transfer from theory to practice. Learning methods include action teaching, projects, case studies, e-learning, blended learning and group-work. Two modules will be carried out by our partners on their campuses: Griffith University in Brisbane/Australia and University of Petroleum & Energy Studies in Dehradun/India.

#### CONTACT

Hella Findekle  
Faculty of Business and Law  
+49-(0)69-1533-2917  
findekle@dek3.fh-frankfurt.de

**More information:** [www.aviation-mba.de](http://www.aviation-mba.de)



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## EDITORIAL



President Dr.-Ing. Detlev Buchholz

Dear readers,  
Fachhochschule Frankfurt is constantly expanding its study and further education programmes taught in English. Taking-off in fall 2011, the part-time Master's programme (MBA) Aviation Management will be entirely taught in English. With an endowed chair for the Bachelor's programme Energy Efficiency and Renewable Energies, which has been granted by the energy provider Mainova, Fachhochschule Frankfurt is increasing its reputation in the field of renewable energies. Also, Professor Martina Klärle has developed an easy-to-handle guideline and online calculator for measuring the potential for the use of renewable energies. Find out more on these and other vivid activities at our institution in this newsletter.

Sincerely yours

*J. Buchholz*  
Dr.-Ing. Detlev Buchholz

P.S.: Did you know? Our high-standard undergraduate and many graduate programmes are tuition free. This applies for domestic, EU- and non-EU-students alike.

## TEACHING AND LEARNING

# Innovative Master's programme: Advanced Practice Nursing (M.Sc.)



Students at the nursing lab of Fachhochschule Frankfurt am Main.

In fall 2011, the Faculty of Health and Social Work launched the new Master's programme Advanced Practice Nursing. This part-time course in clinical nursing is open both to persons with

## TEACHING AND LEARNING

# English taught courses still increasing at Fachhochschule

In accordance with its internationalization strategy, Fachhochschule Frankfurt continues to increase the number of English-taught modules and programmes. In addition to the undergraduate programmes in Bio-Process Engineering, Computer Science, Electrical Engineering, Business Information Systems and International Finance, each of which provides a full semester taught in English, the Faculty of Business and Law will offer twelve English-taught modules in its new International Business Administration programme starting this fall. At the Master's level three consecutive programmes are completely taught in English:

## RESEARCH AND INNOVATION

# Towards a continuum of care in the EU criminal justice system – a survey of prisoners' needs



Prof. Dr. Heino Stöver.

The new member states of the European Union often experience new challenges with drug use in prisons and related health problems like high prevalence of infectious diseases (HIV, hepatitis and TB). The CONNECTIONS study, carried out by Prof. Dr. Heino Stöver and Katja Thane at Fachhochschule Frankfurt, analysed the situation of prison drug use, infectious diseases

a Bachelor's degree in nursing/midwifery and to Registered Nurses with a Bachelor's degree in any other subject. In line with the International Council of Nurses' (ICN) definition of advanced nursing practice, the 18 modules in the programme cover the areas of improvement, enhancement and progress in the care of persons with nursing needs or health risks. Major topics are nursing assessment and diagnoses, nursing interventions, nursing research and evaluation, and models of cooperation, coordination and processing in national and international health care systems. Professor Ruth Schwerdt, programme manager: "We are certain that our graduates will be equipped with the skills to provide needs-oriented new concepts and cost-effective strategies in nursing. This will be to the benefit of patients, as well as the health care system in general."

### CONTACT

Prof. Dr. Ruth Schwerdt  
Faculty of Health and Social Work  
+49-(0)69-1533-2574  
schwerdt@fb4.fh-frankfurt.de

High Integrity Systems, a computer-science oriented programme, Information Technology (focused on Electrical Engineering) and Urban Agglomerations (dealing with urban and regional planning issues). A new Master's programme on Aviation Management will commence in the fall semester. Also the Bachelor's programme in Social Work will offer 30 credit points in bilingual (German-English) modules starting in fall.

### CONTACT

Günter Kleinkauf  
International Office  
+49-(0)69-1533-2735  
kuf@aa.fh-frankfurt.de

### CONTACT

Prof. Dr. Heino Stöver  
Faculty of Health and Social Work  
+49-(0)69-1533-2823/-2819  
hstoever@fb4.fh-frankfurt.de

focus groups, and interviews with experts working in the field and with prison administration and/or ministries of justice. The focus was placed on prisoners' needs and perceptions of health and social services in prison. The study provides insight

**More information:** [www.connectionsproject.eu](http://www.connectionsproject.eu)

## RESEARCH AND INNOVATION

# Renewable energy – a Do-It-Yourself tool for mayors, municipalities and citizens



Photo: Martina Klärle

Prof. Dr. Martina Klärle is investigating the potential for renewable energies.

Which sources of renewable energy, in what combination, can cover how much of the private demand for power in a given municipality – produced on its own territory? This question was at the centre of a research project carried out by Professor Martina Klärle focusing on the 75 municipalities of the Frankfurt/Rhein-Main metropolitan area. The impressive results were presented to the public in March 2011. The study in-

## RESEARCH AND INNOVATION

# Students build device to clean up water after oil spill



Photo: Lothar Billmann

At 30 miles per hour through the Marshes of Plaquemines Parish which belongs to the mouth delta of the Mississippi River (front from left: J. Schäfer, C. Ringel; back from left: R. Morieri, J. Birkert).

The images of the large-scale oil spill in the Gulf of Mexico in spring 2010 are still vivid. The major task after such an oil spill is to clean up the sea water. However, to clean the water by inducing massive amounts of bacteria and microorganisms can be a tedious undertaking. Therefore, students at the Faculty of Computer Science

regarding common problems of implementing effective harm-reduction measures; it also identifies barriers to improvement of prison health care. and discusses the need for improved health care services.

dedicated that a significant percentage of the municipalities in the Frankfurt/Rhein-Main area would be able to cover their own private power demand with renewable energies generated on their own territory. For example, if 10 percent of open space suitable for solar energy were exploited, 32 of the 75 municipalities would be able to cover their own demand based solely on this source. If the full potential of wind energy were exploited, some municipalities would even be able to cover up to 1.850 (!) percent of their own demand. These results, based on geographic information systems (GIS) and statistical data, have been fed into an easy-to-use public online calculator. The tool allows everyone - from mayors to citizens - in the 75 municipalities to calculate in a D.I.Y. fashion their respective potential for the use of all sources of renewable energies. The project was funded by the State Ministry of Higher Education, Research and the Arts within the programme "Forschung für die Praxis".

### CONTACT

Prof. Dr. Martina Klärle  
Faculty of Architecture, Civil  
Engineering and Geomatics  
+49-(0)69-1533-2778  
[martina.klaerle@fb1.fh-frankfurt.de](mailto:martina.klaerle@fb1.fh-frankfurt.de)

### CONTACT

Prof. Dr. Lothar Billmann  
Faculty of Computer Science  
and Engineering  
+49-(0)69-1533-2284  
[billmann@fb2.fh-frankfurt.de](mailto:billmann@fb2.fh-frankfurt.de)

and Engineering have developed a low-cost, eco-friendly and effective mechanical device to separate the oil from the sea water. The device basically consists of a spill-over cascade in which the oil is collected in a repeated process. "With our approach we are reaching a purification rate of 95 percent", says Christian Ringel, a student in biochemical engineering and head of the project team. As part of a partnership with the University of New Orleans, the research team has already been to Louisiana to test the device on-site. The project was initiated by Professor Lothar Billmann who also supervised the research activities. He estimates the costs for the device, once it is ready for use at about 30.000 to 40.000 Euros. Billmann: "As a next step we would appreciate the support of private investors in order to prepare the device for market use".

## NEWS AND EVENTS

# Doing R&D at Fachhochschule Frankfurt now easier for non-EU-researchers

Fachhochschule Frankfurt has been accredited by the Federal Migration Office as an institution for a simplified procedure in granting researchers from abroad a residence permit. This simplified procedure applies to third-country nationals from outside the European Union (EU). As a result, the German Labour Office will no longer verify in every individual case whether a residence permit can be granted. All it takes is a hosting agreement between the researcher and Fachhochschule Frankfurt. With this hosting agreement in hand, third-country researchers can apply for a residence permit at the German consulate/embassy in his/her country of origin. If the person is already in Germany, the application can be filed at the local migration of-

vice. What is required for a hosting agreement? In order to be eligible, Fachhochschule Frankfurt and the individual researcher must state that a specific research project will be carried out, that the incoming researcher holds the necessary academic degree (a PhD, or as a postgraduate student will conduct a research project while doing his PhD in Germany), and that the living expenses for the person in question are covered. For more information contact the local German consulate/embassy or visit the German Foreign Office website.

### CONTACT

Günter Kleinkauf  
International Office  
+49-(0)69-1533-2735  
kuf@aa.fh-frankfurt.de

**More information:** <http://bit.ly/kCFQxR> (short link to the respective German Foreign Office website)

## NEWS AND EVENTS

# Fachhochschule joins Marie Curie project on models for ageing and technologies for improving quality of life



The new city campus of Northumbria University Newcastle, England. The university is part of the Marie Curie project MATSIQUEL.

From 2011 to 2013 Fachhochschule Frankfurt is a partner in the international research staff exchange scheme project "MATSIQUEL – Models for Ageing and Technological Solutions for Improving and Enhancing the Quality of Life". The aim of the project is to accumulate expertise for mathematical and computer modelling of ageing processes. This will include forecast-

ing models for prevention and rehabilitation and for implementation of technological solutions (telecare, recreational games, mon-

### CONTACT

Prof. Dr. Barbara Klein  
Faculty of Health and Social Work  
+49-(0)69-1533-2877  
klein@fb4.fh-frankfurt.de

itoring) and instruments (surveys, assessment tools) which could contribute to the improvement and enhancement of the quality of life of the elderly. Other factors, such as demography, mobility, health, nutrition, lifestyle, which have an impact on the ageing process will also be assessed. Coordinator of MATSIQUEL is Northumbria University in Newcastle, England. Partner universities are the Centre of Biomedical Engineering of the Bulgarian Academy of Sciences, the Universidad Nacional Autonoma de Mexico, the University of Cape Town/South Africa and Griffith University in Brisbane/Australia. In addition to international exchange of research staff, a variety of summer schools will be held. In summer 2012 one will take place at Fachhochschule Frankfurt on "Welfare State Paradigms and Quality of Life Technologies – Issues, Chances, and Risks".

## NEWS AND EVENTS

# German-Moroccan play "Second Hand Cities IV" wins theatre award

The German-Moroccan play "Second Hand Cities IV" won a theatre award for "Innovative media and performance work" at the 16th International Festival of Theatre at Agadir University/Morocco which took place from March 30th to April 2nd, 2011.

The play, one in a series of four, was devised within the field module, intercultural performance and media studies, which is part of the Bachelor's degree programme in Social Work (Faculty of Health and Social Work). Under the heading "aesthetic

interventions into public space” students from Fachhochschule Frankfurt initiated and rehearsed several productions in cooperation with institutions from India and Morocco. Second Hand Cities IV and its forerunner (III) were produced in cooperation with Agadir University. The first two plays (I and II) were produced in cooperation with the Indian non-profit organisation Community Development Society (CDS). The performances of Second Hand Cities I and II took place in a slum in the city of

Anand, India, and at the arts club “Familie Montez” in Frankfurt in 2010. The idea behind Second Hand Cities is to present urban space beyond holiday postcard stereotypes and from the critical, intercultural perspective of young students.

#### **CONTACT**

Prof. Frank Matzke  
Faculty of Health and Social Work  
+49-(0)69-1533-2827  
matzke@fb4.fh-frankfurt.de

#### **Imprint**

President Dr.-Ing. Detlev Buchholz | Fachhochschule Frankfurt am Main – University of Applied Sciences | Nibelungenplatz 1 | D-60318 Frankfurt am Main  
+49-(0)69-1533-2415 | praesident@fh-frankfurt.de

#### **Editorial Staff**

Dr. Ralf Breyer | Head of Dept. for Strategic Communication | +49-(0)69-1533-3219 | breyer@hsl.fh-frankfurt.de

Günter Kleinkauf | Head of International Office | +49-(0)69-1533-2735 | kuf@aa.fh-frankfurt.de

Kristiane Seidel-Sperfeld | Dept. for Research, Further Education and Transfer | +49-(0)69-1533-2162 | seidels@fwbt.fh-frankfurt.de

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