

**Course proposal to AUST Abuja
in support of candidature for visiting professor**

Course 1

Title: International environmental agreements and their repercussion in urban sustainability.

Language: English

Academic level: graduate program

Course duration: 4 weeks (48 hours)

Weekly dedication: 12 hours of classes plus homework assignments

Course type: Advanced Cross-Disciplinary Course

Scope and form: Lectures, research exercises, research presentations with debate

Type of assessment:

Several written assignments and evaluation of research presentations.

Aid: Virtual reading material indicated

Prerequisites: Admitted to AUST program

General course objectives:

Provide an understanding of the repercussion of international environmental agreements on urban sustainability, and of realistic management strategies for sanitation in emerging economy contexts.

Learning objectives:

A student who has met the objectives of the course will:

Be knowledgeable on world summit documents from Stockholm 1992, Rio 1992, Kyoto 1997, Basel 1999, New York 2000, Johannesburg 2002, New York 2005 and Bali 2007. Appreciate the significance of sustainability and urban environmental management. Understand the repercussion of world summit documents in municipal administrations. Define parameters and indicators for evaluating urban sustainability. Develop resource arithmetic to translate summit directives into local progress targets. Create management methods required to attain the targets. Anticipate directives to be emitted by future summits.

Content:

Present interpretations of sustainability and urban environmental management. World summits as guides for local environmental policies. Extrapolation from past to future summits. Development of resource arithmetic to quantify progress targets. Political and administrative actions at the local level that guarantee the attainment of targets. Case studies.

Course Resources:

Course material:

Christian V. Loeffe

Trends in Conservation and Recycling of Resources, chapter 8,

Presenting Resource Arithmetic: A Discipline of the World Summit Era.

Nova Science Publishers, New York, 2006, 327 pp.

ISBN 13 978 1 60021 124 9.

http://www.novapublishers.com/catalog/product_info.php?products_id=4377

Course reading:

<http://www.un.org/esa/devagenda/>

<http://www.un.org/esa/sustdev/documents/agenda21>

<http://www.un.org/millenniumgoals>

<http://www.un.org/jsummit> >report of the WSSD (173 pp.)

<http://www.un.org/summit2005>

Fehr, M. *Retrospectiva de la construcción de un escenario hídrico sostenible*

Agua Latinoamérica, Tucson, vol. 2 no. 4 pp. 40-43 (2002)

www.agualatinoamerica.com/TOC.cfm?ISN=4

Fehr, M. *Proposal of indicators to assess urban sustainability in Brazil*

Environment, Development and Sustainability, Dordrecht

vol. 6 no. 3 pp. 355-366 (2004) ISSN 1387 585X

<http://dx.doi.org/10.1023/B:ENVI.0000029914.82071.6e>

Fehr, M. *Supporting waste and water management with proactive legal instruments*

Resources, Conservation and Recycling (Elsevier)

vol. 54 no. 1 pp. 21-27 (2009) ISSN 0921 3499

<http://dx.doi.org/10.1016/j.resconrec.2009.06.005>

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Key words: Environmental management, environmental policies, international environmental agreements, municipal sustainability targets, resource arithmetic, sustainability indicators, urban sustainability, world summits.