Toward the Establishment of Chubu Consortium for Environmental Leaders Development

Education in Nagoya University to Foster Global Environmental Leaders

1. Graduate School of Environmental Studies
   (i) Department of Environmental Science ・ Meteorology, Geology, Earth Science, Etc.
   (ii) Department of Environmental Engineering and Architecture ・ Civil Engineering, Environmental Materials, Architecture, Etc.
   (iii) Department of Social Environmental Studies ・ Economics, Sociology, Psychology, Policy Science, Geography
   - Created in 2001 after restructuring of existing organizations
   - Based on Wide-Range of Academic Principles Covering Natural and Social Sciences

2. Center for Global Environmental Leaders
   - Created in November 2008 and Directed by Vice-President of Nagoya University
   - Cross-Faculty Partnership
   - Cooperation with Outside Organizations
Two Flagship Programs

1. Nagoya University Environmental Leaders Program (NUGELP, Starting from 2008)
   - Financial Support by Ministry of Education, Science and Sports
   - Master Course Program Focusing on
     - Climatic Change Mitigation and Adaptation
     - Water and Waste management
     - Biodiversity Conservation

2. Global Center of Excellence (G-COE) Program on Basic and Clinical Environmental Studies (Starting from 2009)
   - Financial Support by Ministry of Education, Science and Sports
   - Doctor Course Program of “Integrated Environmental Study Course” (to be Launched in 2010)
   - Balance of Diagnosis and Treatment and Scientific Understanding of Environmental Phenomena and Presentation of Practical Solutions
   - ORT (On-Research Training) in Asia

Objective

To foster future environmental leaders who are able to deal with global environmental problems, especially in Asia and Africa

Focal Areas

- Climate Change Mitigation and Adaptation
- Water and Waste Management
- Biodiversity Conservation
Unique Education Program  (独自の教育プログラム)

- Approach to problem solution  (問題解決へのアプローチ)
  Interdisciplinary education focusing on understanding issues, acquisition of technological know-how, and design of policies and institutions

- Cross-faculty partnership  (多様な専門領域の連携)
  Special lectures and seminars offered by the graduate schools of Environmental Studies, Engineering, Bioagricultural Sciences, International Development, etc.

- Networking with external organizations  (学内外の協力)
  Global Research Internship at local companies and NPOs, and overseas universities and organizations

- Developing international human resources  (国際的に活躍する人材の育成)
  Lectures and seminars are provided in English

Curriculum at a Glance  (カリキュラムの概要)

**Majors  (専攻)**
- Climate Change Mitigation and Adaptation
- Water and Waste Management
- Biodiversity Conservation

**Year One: Expanding knowledge  (1年次 知識の拡大)**
- Lectures, seminars, etc. in participating departments
- Special lectures by external practitioners from the Nagoya-Chubu Region

**Year Two: Practical experience and research  (2年次 実務経験と研究)**
- Global Research Internship at companies, local governments or international organization
- Master’s thesis compilation which will involve data collection and analysis through domestic and overseas field studies

**Degree  (学位)**
- Master of Environmental Studies, or Master of Engineering (30 coursework credits and Master’s thesis)
- In addition, a special certificate (about 24 coursework credits and Master’s thesis in English) is awarded.
Acadmia-Industry-Government Collaboration in Chubu Region

Nagoya University Center for Global Environmental Leaders

- GS of int’l Development
- GS of Environmental Studies
  Dept. of Environmental Engineering and Architecture
- GS of Engineering
  Dept. of Civil Engineering
- GS of Bioagricultural Sciences

Chubu Consortium for Environmental Leaders Development (Plan in Draft)

Objective (目的)
To provide more comprehensive and systematic education program
To establish a center of human resource development by taking advantage of the characteristics of the manufacturing region

Key Features (特色)
- Field-oriented lectures by the experts from outside the university
- Research-based Internship (ORT)
Curriculum Model  カリキュラムモデル  

Graduate School of Environmental Studies  
Climate Change  
- Low Carbon Cities Studies  
- Climate Change Policies etc  

Water and Waste Management  
- Water and Waste Management Policies  
- Water and Waste Engineering etc  

Biodiversity Conservation  
- Biodiversity Conservation Policies  
- Biological Resource Management Policies  
- Biological Resource Management Projects etc  

NEW!  
- Theory of Environmental Resources Management  
- Environmental Industry Systems  

Existing Lectures  
- Sustainability and Environmental Studies  
- Field Seminar on Environmental Studies  
- Spatial Development and Environment  
- Environmental Systems Analysis and Planning  
- Environmental Transport Phenomena  

- Transportation Systems Analysis  
- English Communication in Environmental Issues  
- Frontier in Civil Engineering  
- Civil Engineering and Policies for Developing Countries I & II  
- Environmental Policies and Strategies  
- Environmental Administration etc  

Seminars  
Global Research Internship  

NEW!  

Graduate School of Bioagricultural Sciences  
- International Cooperation in Agricultural Sciences I & II  
- Biological Material Sciences IV  
- Bioresource Cycling System Science I  

Graduate School of International Development  
- Program in Economic Development Policy and Management  
- Program in Rural and Regional Development  
- Program in Education and Human Resource Development  
- Program in Governance and Law  

Chubu Consortium for Environmental Leaders Development (Plan in Draft)  

Global Research Internship (2 Credits)  

(1) Setting a research topic  
(2) Research (Interview, Discussion etc.)  
(3) Presentation (in English)  

Chubu Consortium for Environmental Leaders Development (Plan in Draft)  

Nagoya University Global Environmental Leaders Program  

Chubu Consortium for Environmental Leaders Development (Plan in Draft) 中部環境リーダー育成コンソーシアム (案)