## [Iwate University] Program for Developing $\pi$ -type Environmental Leadership by ISO14001 and Industry-University-Government-Citizen Collaboration

## [Objectives and Contents]

- ◆Based on the achievement of "Galaxy of Learning" Project, we develop Programs to nurture  $\pi$ -type environmental leadership with two vertical axes
- expertise of faculties (axis1) and practical environmental competency on environment management (axis2) - beside basic environmental

competency (horizontal axis) by four approaches below.

[Approach 1] Enhance environment education quality in general education

[Approach 2] Develop field programs of practical environment management

[Approach 3] Students help green the community

**Faculty** 

[Approach 4] University qualifies Certified Environmental Management Specialist

(Project Implementation System)



## **Project Illustration**

Approach 1

- Enhance environment education in general education courses
- (1) "Basic Seminar": Raise environmental awareness
- **2**ESD subjects in collaboration with external partners Learning in Practice How to Organize a Sustainable Community

ESD: Learning from Local Businesses

3 Develop Teaching Materials for Environmental Education subjects

**Environmental Competency** 

π-type Environmental Leadership



**ESD Values** 

Approach 2

Iwate Higher Education Consortium (Peer collaboration)

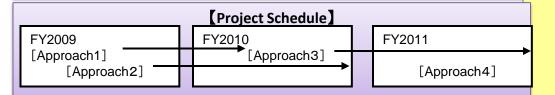
Iwate Univ.: Roles of/interaction among three sections University Education Center. Strong Link **Environment Management Office** Environmental Leadership Development **WG of Humanities and Social Sciences** 

CSR/Environmental Leadership Development Association (Collaboration of industry, university, government and citizen)

Iwate ESD Round Table Meeting for Education (Collaboration beyond borders)

## [Novelty of the Project (What makes the project distinguished)]

- Succeed "Galaxy of Learning" which embeds ESD in all general education courses
- President leads the campus-wide approaches mainly in general education courses.
- "Practical Environment Management Seminar" starts in which students practice environment management skills in community, cooperating with local smaller firms.
- "Certified Environmental Management Specialist" qualified by the Iwate University.



**Expertise of** Faculties

Practical Environmental Competency

Specialized **Education of Faculties** 

**Basic** 

(Strong motivation and leverage)

Approach3

◆Students help green the community **Iwate Higher Education** 

Consortium Iwate ESD Round Table Meeting for Education

**CSR/Environmental Leader**ship Development **Association** 

Japan Network for International Education

\* Promote internship/ volunteer activities in cooperation with partner organizations **◆** Develop programs of environmental management skills

- (1)Subject of ISO 14001 "Environmental Management of Iwate Univ". (2 credits in 2nd term of 1st year)
- 2 ISO14001 Campus Audit Practice
- "Practical Environment Management" (2 credits in 1st term of 2<sup>nd</sup> year)
- 3 Subject for Supporting Local Smaller Firms to Green their Management
- "Practical Environment Management Seminar" (\* Students help smaller firms develop their environment report.) (2 credits in 2<sup>nd</sup> term of 2<sup>nd</sup> year)

Approach 4

**◆Certified Environmental Management Specialist** qualified by the University

\*Students who meet the requirements of the 3 approaches.

