



GMS University Curriculum Development Initiative: Reaction to SDGs

ASEAN Way Forward for SDGs and COP 21 thru Social and
Sustainability Sciences

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- Background:
 - MSU and TEI, supported by UCRSEA, organized the 1st Meeting of GMS Deans/Heads of Faculty/Department of Environment, 7-8 February 2017, Bangkok Thailand.
 - Key aim: discussion on need of curriculum development and formulation of GMS university network in response to the SDGs.



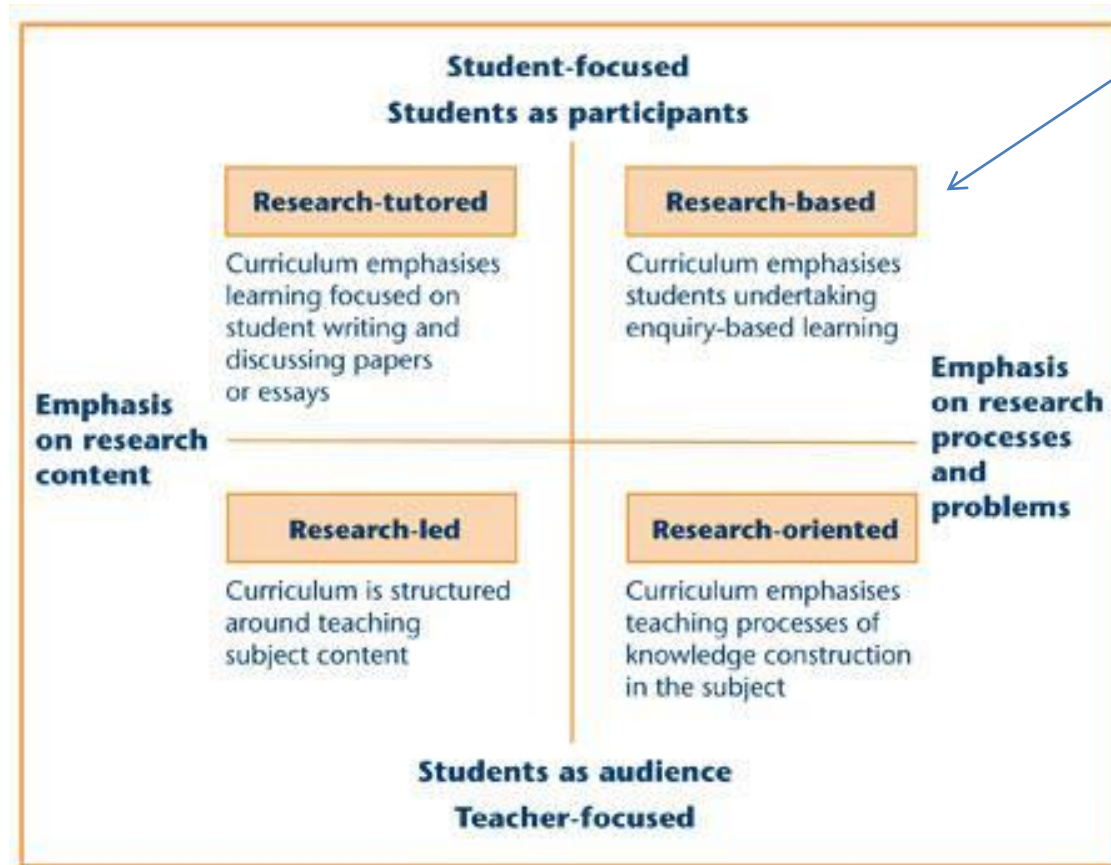
Need Rethinking in Development of New Curricula /Course

From teacher
centered to:

- A Kind of Research
or Inquiry?



Or Sustainability Science Curricula/Course design should be research based?



Healey (2005)

Agreement on: **VERY IMPORTANT SUBJECTS** (draft)

- **Sustainability theory and practices** – including issues in urban, social, gender, economics, environmental governance and politics;
- **Climate change as trans-disciplinary:** Adaptation, mitigation, transformation and trans-boundary;
- **Environment and natural resource management** – including issues in waste water, energy, soil and air;
- **Environmental management approaches:** EIA, SEA, EQA, HIA, ecological economics;
- **Sustainability policy and planning** - including law/regulations, ethics, public policy, advocacy, regional policy, decision-making, land use planning and public participation;
- **Technical tools for environmental assessment:** GIS-spatial technology, remote sensing, environmental modeling, environmental planning;
- **Research and internship** – including research methodology and data analysis;
- **Skills:** Communication, problem-solving and critical thinking, ethics;



Agreement on: **IMPORTANT SUBJECTS** (draft)

- **Ecology and applied ecology**, such as human and urban ecology;
- **Environmental monitoring and surveillance** – including air, quality, emission inventory, marine and coastal zone, citizen science, local wisdoms, and access to information;
- **Green production and growth** – including cleaner production, renewable energy, green technology, infrastructure development, entrepreneur and innovation, and agriculture and food security;
- **Behavior change: Asian culture**;
- **Sustainable governance** – including public policy/advocacy, equity and justice, and urban administration;
- **Seminar**: Trans/inter-disciplinary research approaches;
- **System thinking**



Next Steps

- Faculty of Environment and Resource Study, Maharakham University (MSU) in cooperation with Thailand Environment Institute (TEI), volunteers to act as a focal-point institution to move forward the formulation of Sustainability Science Degree Program in the GMS.
- In May 2017, the 2nd workshop will be organized in Cambodia to refine the results from the 1st workshop, jointed by U of Toronto, U of York, and U of Ottawa.



Thank You for Your Attention

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