科目ナンバリング														
授業科目名 <英訳> Sustainable Forest Environment-E2 Sustainable Forest Environment-E2 Sustainable Forest Environment-E2										ONG , Khonesavanh				
群	統合科	合科学科目群			野 <b>(</b> 分類)	環境					使用言語 英語		語	
旧群		単位数	位数 2単位		週コマ数	172		授業	授業形態講		義(対面授業		《科目)	
開講年度・ 開講期	2024 ·	前期	曜時限 木				配当学		Ź年 まとして1・2		性 対象学生		全学向	
[授業の	[授業の概要・目的]													
The cours climate cl environm emissions	This course introduces the basic forest environmental issues and concepts concerning the forest sustainability. The course is focused on (1) the basic physical science of climate change, climate models, and the impacts of climate change; (2) basic science on forest environment and ecosystems; (3) roles of forests and forest environmental issues; and (4) Sustainable approach of managing forests by the concept of "Reducing emissions from deforestation and forest degradation and the role of conservation, sustainable management of forests, and enhancement of carbon stocks in developing countries (REDD+).													
[到達目標] 1. To introduce students with knowledge and background on environmental issues related to climate change 2. To introduce students with underlying scientific theories, principles, practices, and measures for sustainable forest management 3. To help students acquire and apply technical knowledge and development practices on management practices for mitigation and adaptation to climate change in forest environment														
[授業計画と内容]														
<ol> <li>Global warming</li> <li>Modelling the climate</li> <li>Climate change and its impacts</li> <li>Forests and forest ecosystems</li> <li>Forest environment and its environmental values</li> <li>Forest environment and its environmental values</li> <li>Forest ecosystem functions</li> <li>Forest soils and nutrient cycles</li> <li>Basic forest hydrology: water supply and quality</li> <li>Forest biodiversity</li> <li>Natural hazards and risk management</li> <li>Deforestation and forest degradation</li> <li>Forests and sustainable development</li> <li>Social values of forests and forestry</li> <li>Forest products</li> <li>Sustainable forest management</li> <li>Examination</li> <li>Feedback</li> </ol>														
[履修要件]														
特になし														
[成績評価の方法・観点]														
Students' evaluation are conducted on the performance basis on (1) applying knowledge through answering mini-quizzes (15%); (2) developing scientific communication skills through writing summary reports of book chapters, research Sustainable Forest Environment-E2(2)へ続く														

## Sustainable Forest Environment-E2(2)

papers and oral presentation (25%);

(3) writing a short essay of a case study using critical & problem-solving skills (10%);

(4) final examination (50%)

## [教科書]

Reading materials and handouts will be distributed.

[参考書等]

(参考書)

John Houghton <sup>G</sup>Global Warming: The Complete Briefing (5th Ed) (Cambridge University Press) ISBN:978-1-107-46379-0 (Only some chapters are covered)

IPCC Climate Change 2013: The Physical Science Basis (IPCC) (Available online and in library)

[授業外学修(予習・復習)等]

Students are encouraged to read and review reading materials before classes.

[その他(オフィスアワー等)]

After class, student consultation will be arranged with prior notice.