

Advanced Environmental Systems Engineering

2 units (selection)

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Target) To understand the present environmental problems and to acquire the advanced of the technique and the approach to solve problems on the point of the ecosystem engineering.

Outline) To explain the structure and function of environmental systems, the relationship between civil life and disaster prevention systems, and the changes of social system due to the technological revolution and the policy.

Style) Lecture

Keyword) *environmental policy, natural disaster, energy saving technology, welfare technology, miromechanical engineering*

Goal)

1. To understand the factor of environmental systems
2. To understand the structure of environmental systems
3. To understand the civil life and natural disaster prevention systems

Schedule)

1. The policy and natural disaster prevention measures (1)
2. The policy and natural disaster prevention measures (2)
3. The factor of environmental systems
4. Example of environmental systems
5. The structure of environmental systems
6. Example of structure of environmental systems
7. Civil life and nano-technology 1

8. Civil life and nano-technology 2

9. Midterm presentation

10. Well being technology 1

11. Well being technology 2

12. Ecosystem engineering 1

13. Ecosystem engineering 2

14. Hydrogen engine technology

15. Diesel engine engineering

Evaluation Criteria) Assignments count 100%

Textbook) To be introduced in th class

Reference) To be introduced in th class

Contents) <http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=216598>

Contact)

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Note) 授業を受ける際には、2時間の授業時間毎に2時間の予習と2時間の復習をしたうえで授業を受けることが、授業の理解と単位取得のために必要である。